PROLOGIS®

**Duke Realty Foundry LP**
**7825 San Leandro Street**
**Oakland, California 94621**

October 8, 2024

Ms. Dilan Roe
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**RE: AB&I Redevelopment – Acknowledgement Statement**
7825 San Leandro Street
Oakland, California 94621
ACEHD Case No. RO0003535

Dear Ms. Roe:

Duke Realty Foundry LP has retained the environmental consultant referenced on the attached *Data Gap Investigation Report,* dated October 8, 2024, for the project referenced above. The attached report is being submitted on behalf of Duke Realty Foundry LP.

I have read and acknowledge the content, recommendations, and/or conclusions contained in the attached document or report submitted on my behalf to ACEHD's FTP server and the State Water Resources Control Board GeoTracker website.

Sincerely,

Gavin Polite Fisco
Director, Global Environmental & Engineering Services
Duke Realty Foundry LP

cc: Blair Rushing, Duke Realty Foundry LP
Andrew York, Alameda County Environmental Health Department
Joshua Osborne, PG, Roux Associates, Inc.
Richard Maxwell, Roux Associates, Inc.

# Data Gap Investigation Report

AB&I Redevelopment
7825 San Leandro Street
Oakland, California
Alameda County LOP Case No. RO0003535

October 8, 2024

Prepared for:

**Duke Realty Foundry LP**
**(Prologis)**

Prepared by:

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# Certification

**Data Gap Investigation Report**

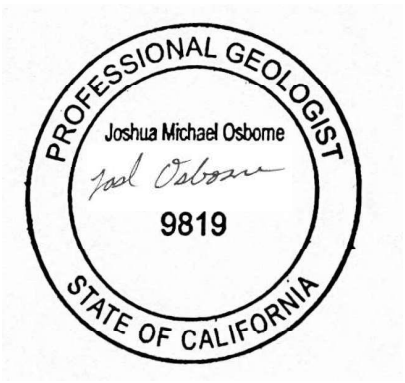
7825 San Leandro Street
Oakland, California

October 8, 2024
Project Number 1793.0030S000

This Data Gap Investigation Report was prepared by Roux Associates, Inc., under the professional supervision of Joshua Osborne, PG. The specifications and/or professional opinions presented in this study were prepared in accordance with generally accepted professional practice, and within the scope of the project. There is no other warranty, either expressed or implied.

Richard Maxwell
Principal Geologist/
Operations Manger

Joshua Osborne, P.G.
Senior Geologist I



# 1 Introduction

On behalf of Duke Realty Foundry LP (Prologis), Roux Associates, Inc. (Roux) has prepared this *Data Gap Investigation Report* (Report) summarizing the activities of a Data Gap Investigation (DGI) for the proposed redevelopment at the former American Brass & Iron (AB&I) Foundry Site located at 7825 San Leandro Street in Oakland, California (Site; Figure 1).

The Alameda County Environmental Health Department (ACEHD) Local Oversight Program (LOP) for Hazardous Materials Releases is the lead regulatory agency for the Site. Environmental investigations and clean-up actions at the Site are performed by Prologis under the oversight of ACEHD's Site Clean-up Program (SCP), with GeoTracker Global ID T10000019792 and ACEHD Case Number RO0003535.

The DGI was conducted in general accordance with the *Revised Site Conceptual Model and Data Gap Investigation Work Plan* (Work Plan) dated May 13, 2024, prepared by Roux on behalf of Prologis (Roux, 2024c). The Work Plan was approved by ACEHD and presented to the public by ACEHD during a public meeting on May 13, 2024. The scope of work proposed in the Work Plan included:

1. Delineate volatile organic compounds (VOCs) previously detected in passive soil vapor samples at the Site;
2. Assess benzene in soil vapor in three distinct areas at the Site;
3. Assess VOCs in soil vapor and bioattenuation potential by installing and sampling soil vapor probes;
4. Analyze the extent of potential vapor intrusion risk from soil vapor beneath the Site; and,
5. Assess concentrations of compounds in shallow soil across the Site and within proposed utility corridors and bio-swales.

The scope of work was discussed between Roux, Prologis, Craig Communications, and the ACEHD on October 17, 2023, March 7, 2024, March 25, 2024, April 19, 2024, April 23, 2024, and May 9, 2024. The Work Plan was prepared to address ACEHD's comments related to the 2023 Passive Soil Gas and Groundwater Investigation (2023 Investigation) conducted by Roux and the proposed scope of work presented in the *Conceptual Supplemental Subsurface Investigation Memorandum* dated October 16, 2023 (Roux, 2023a).

# 2 Background

## 2.1 Site Location and Description

The Site consists of the former AB&I Foundry located at 7741, 7825, and 7929 San Leandro Street in Oakland, California (Figure 1). For simplicity and consistency with regulatory communication, 7825 San Leandro Street is used to reference the location henceforth. The Site consists of approximately 14.5 acres in a mixed commercial/industrial land use area. The Site was previously developed with a two-story office building, multiple warehouses, a foundry and manufacturing building, a material storage area, and a parking lot. Demolition of all aboveground/vertical structures was completed in November 2023 by Prologis as part of the planned redevelopment. Currently, the Site is covered with concrete and asphalt/concrete pavement with a small portion of soil along the southwestern edge of the Site (Figure 2).

The Site is bounded by commercial/industrial properties on all sides. San Leandro Street and a raised segment of the Bay Area Rapid Transit rail is located to the northeast, SF Oakland Truck Stop to the southeast, a Union Pacific Railroad is located to the southwest, Elmhurst Creek along the southern property corner, and Hegenberger Road to the northwest. San Leandro Bay is located approximately one mile to the west. The nearest residential areas are located approximately 1,100 feet northeast of the Site.

## 2.2 Site History

The former Site owner and operator (AB&I) operated at the Site as a foundry from at least 1940 until October 2022. During foundry operations, the Site was utilized for the manufacture of metal pipe and pipe fittings. Operations at the Site included the production of cast iron for the manufacturing of fittings and pipe from recycled scrap iron, pig iron, and steel, which it accepted and stockpiled on-Site. Major operations involved scrap metal melting, mold making, fitting and pipe casting, and final finishing and coating of pipes and fittings (AB&I, 2011a). AB&I ceased foundry operations in October 2022 and vacated the Site in April 2023.

## 2.3 Site Geology and Hydrogeology

### 2.3.1 Site Geology

The Site is a flat parcel ranging in elevation between 11.5 and 14.5 feet (ft).[1] As discussed above, the Site is located approximately one mile east of San Leandro Bay and is bounded to the south by Elmhurst Creek. The Arroyo Viejo Creek lies to the northwest of the Site across Hegenberger Road. The Site is within an area identified as the East Bay Plain. The East Bay Plain is situated on the east side of the San Francisco Bay depression. The alluvial sediments of the East Bay Plain consist of a mixture of gravel, sand, and clay deposited by coalescing alluvial fans. Alluvial and estuarine deposits have been mapped near the Site (Helley, et. al., 1979). The fluvial deposits are described as “unconsolidated, moderately sorted, fine sand and silt, with clayey-silt and occasional thin beds of coarse sand” (Muir, K.S., 1993). The near-shore deposits are described as “a well-sorted, fine to medium grained sand and silt, with lenses of sandy clay and clay” (AB&I, 2010a). A geologic map prepared by Graymer (2000) depicts Holocene basin deposits and natural levee deposits across the Site (Figure 3). Graymer describes the natural levee deposits as, “loose, moderately-sorted to well-sorted sandy or clayey silt grading to sandy or silty clay.” The basin deposits are

[1] All vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

described as, “very fine silty-clay to clay deposits occupying flat-floored basins at the distal edge of alluvial fans adjacent to the bay mud” (Graymer, 2000).

Borings advanced by others at the Site between 1993 and 2024 have extended to an approximate depth of 101 feet below ground surface (bgs). Soils encountered in the unsaturated zone beneath the Site are predominantly fill material (well-graded sand), while soils encountered in the saturated zone are dominated by lean/fat clay with interfingered lenses of mixtures that include sand, silt, clay, and gravel, to the maximum depth explored. Boring logs completed by Roux and others indicate that lean and fat clays dominate the lithology below the Site with lesser amounts of gravel, sand, and silt. Geologic cross sections of historical borings and borings advanced during this DGI are included in Appendix A.

### 2.3.2 Site Hydrogeology

Regional groundwater flow in the vicinity of the Site is interpreted to be toward the west, toward San Leandro Bay. Regional groundwater flow appears to be influenced by the regional and local geologic sedimentary framework of hydraulically conductive natural levee deposits trending east to west in the eastern, western, and southern quadrants of the Site, and finer-grained basin deposits in the northern quadrant of the Site (Figure 3).

Historical shallow groundwater conditions are observed at the Site with water elevations in existing monitoring wells ranging between 4.13 and 8.29 feet above mean sea level (North American Vertical Datum 1988 [NAVD 88]), as of March 2024. The groundwater gradient at the Site appears to be influenced by the regional and local geologic sedimentary framework of the Site. The overall flow direction of groundwater at the Site historically averages as flowing to the northwest, with a southerly component in the northern portion of the Site. Historical groundwater monitoring data indicated that groundwater generally flowed to the northwest at a hydraulic gradient of approximately 0.006 feet per foot (ft/ft) (AB&I, 2010a).

The alluvial and estuarine deposits at the Site described in Section 2.3.1 result in a hydrogeologic regime consisting of lenses of high- and low-conductivity soil. Based on field observations during previous investigation at the Site (discussed in detail below in Section 2.4), this hydrogeological regime results in multiple water-bearing zones with discontinuous units of fine (clay and silt) and coarse (sand and gravel) units.

Although groundwater in the East Bay Plain is generally considered a potential future source of drinking water, there are no permitted drinking water wells within one mile of the Site, nor is the shallow groundwater in this area likely to be used as a public drinking water source in the foreseeable future (AB&I, 2008a). Additionally, groundwater monitoring activities from permanent wells at the Site have identified total dissolved solids in groundwater above 1,000 milligrams per liter (mg/L), exceeding California State Water Resources Control Board Secondary Maximum Contaminant Levels (MLCs) for TDS of 1,000 mg/L.

## 2.4 Previous Environmental Activities

A summary of previous environmental investigation activities and associated results are provided below.

### 2.4.1 Leaking Underground Storage Tank Removals

Seven underground storage tanks (USTs) were previously located on the Site, including:

- One 8,000-gallon UST used for storing unleaded gasoline;

- One 8,000-gallon UST used for the storage of mineral spirits, and later 1,1,1-trichloroethane (1,1,1-TCA);
- One 550-gallon UST used for storing regular leaded gasoline;
- One 10,000-gallon UST used for storing diesel; and
- Three 10,000-gallon USTs used for storing gasoline.

All USTs noted above were removed from the Site between 1982 and the early 1990s. The ACEHD provided regulatory oversight of the Leaking Underground Storage Tank (LUST) case (RO0000092) and closed the case in November 2011 with a covenant and environmental restriction that limits future land use to industrial purposes (AB&I, 2010a; AB&I, 2011a). The locations of the historical USTs are shown on Figure 2.

### 2.4.2 Soil and Groundwater Assessment – 2006

In July/August 2006, an assessment of soil and groundwater was conducted as part of a property transfer. The assessment consisted of sampling three monitoring wells (MW-1, MW-3, and MW-4); abandoning damaged well MW-2; and installing and sampling six new groundwater monitoring wells (MW-2R, and MW-5 through MW-9). Soil samples were collected at various depth intervals during the installation of monitoring wells MW-5 through MW-8. Results of the assessment were presented in the *Preliminary Groundwater Investigation Report,* dated June 11, 2007, prepared by BSK Associates, Inc (BSK), on behalf of AB&I. The results indicated that at least one compound in five of the nine wells had concentrations that exceeded their respective United States Environmental Protection Agency (USEPA) maximum contaminant level (MCL) or San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening level (ESL) for groundwater, impacting a current or potential source of drinking water (BSK, 2007).

### 2.4.3 Groundwater and Soil Vapor Investigations – 2007 to 2010

On behalf of AB&I, the Source Group, Inc. (SGI) conducted additional soil, groundwater, and soil vapor investigations in 2007, 2008, 2009, and 2010. The results of these investigations indicated that groundwater near the parking lot area (located in the vicinity and northwest of former well MW-8; Figure 2) contained VOCs, including 1,1,1-TCA; 1,1-dichloroethane; 1,1-dichloroethene (1,1-DCE); chloroethane; cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene; and vinyl chloride. Groundwater near the former three 10,000-gallon USTs (located in the vicinity of former well MW-9) contained petroleum hydrocarbons, including benzene; toluene; ethylbenzene; and xylenes (BTEX), total petroleum hydrocarbons (TPH) as gasoline (TPH-g), and TPH as diesel (TPH-d) (AB&I, 2008a; AB&I, 2008b; AB&I, 2008c; AB&I, 2009a; AB&I, 2009b; AB&I, 2009c; AB&I, 2009d; AB&I, 2010a; AB&I, 2010b).

Results of the soil vapor analysis indicated that benzene, ethylbenzene, vinyl chloride, and tetrachloroethene (PCE) were detected at concentrations exceeding 2007 RWQCB ESLs[2] under the commercial/industrial land use scenario. SGI conducted a site-specific risk assessment, which concluded that the risks posed by soil vapor concentrations were acceptable, and no further action was recommended (AB&I, 2009b). The ACEHD concurred with the report conclusions in a letter dated May 20, 2009 (ACEHD, 2009).

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[2] Soil vapor results were compared to ESLs issued by the RWQCB entitled *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final – November 2007*, updated May 2008.

### 2.4.4 In-Situ Remediation – 2009

In June 2009, in-situ remediation was implemented to enhance the degradation of VOCs and petroleum hydrocarbons in groundwater in two areas of the Site. Injections of emulsified oil substrate were performed beneath the parking lot area (near former wells MW-3 and MW-8) to enhance anaerobic biodegradation, and injections of Oxygen Releasing Compound/Regenox were performed near the former three 10,000-gallon USTs (near former well MW-9) to enhance aerobic biodegradation.

Groundwater monitoring was performed between 2009 and 2010 to track the progress of bioremediation in the subsurface (AB&I, 2009c; AB&I, 2009d; AB&I, 2010a; AB&I, 2010b). In a letter dated March 2, 2010, the ACEHD indicated that no further active remediation was required at that time related to groundwater at the Site (ACEHD, 2010).

### 2.4.5 Request for Site Closure – 2011

On behalf of AB&I, SGI prepared a semi-annual report that described the results of first and second quarter 2010 groundwater monitoring activities, and formally requested Site closure. The closure request concluded that known UST sources had been removed from the Site, soil vapor impacts were low and did not warrant remediation or monitoring, and groundwater concentrations of VOCs and petroleum hydrocarbons were stable or had declined. As such, AB&I proposed preparation of a risk management plan and deed restriction (AB&I, 2010a). In a letter dated April 28, 2011, the ACEHD accepted the proposed course of action and requested submittal of a deed restriction and Site Management Plan (ACEHD, 2011).

### 2.4.6 Well Decommissioning Report – 2011

On October 11, 2011, nine monitoring wells (MW-1, MW-2R, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9) located on the Site were destroyed via tremie grout method in accordance with Alameda County Public Works Agency (ACPWA) requirements. The necessary well destruction permits were obtained, and all well destruction activities were performed under the oversight of SGI and the ACPWA. As required by the California Department of Water Resources, well destruction reports were completed following the destruction of the monitoring wells (AB&I, 2011b).

### 2.4.7 Phase I Environmental Assessment and Limited Phase II Investigation – 2022

As part of the pre-acquisition due diligence process, Haley & Aldrich, Inc. (H&A) completed a Phase I Environmental Site Assessment (Phase I ESA) at the Site, dated April 2022 (H&A, 2022a). The Phase I ESA identified several recognized environmental conditions, which H&A subsequently investigated during a limited Phase II Environmental Investigation (2022 Phase II investigation), dated May 2022 (H&A, 2022b). The 2022 Phase II investigation included the advancement of four soil borings (E-2, E-4, E-5, and E-6; Figure 2) for collection of soil, soil vapor, and groundwater samples, and collection and analysis of eight soil samples, two groundwater samples, and two soil vapor samples.

Soil sample analytical results indicated that shallow soil near borings E-4, E-5, and E-6 contained benzene above 2019 RWQCB Commercial/Industrial Soil ESLs (RWQCB, 2019). Arsenic was detected below the background arsenic concentrations for the San Francisco Bay region (Duvergé, 2011).

The following compounds were detected in soil vapor in exceedance of their respective Commercial/Industrial Direct Exposure ESLs:

- Chloroform (E-2) – 21 micrograms per cubic meter ($\mu g/m^3$);

- Benzene (E-4) – 11,000 µg/m$^3$;
- Ethylbenzene (E-4) – 2,600 µg/m$^3$;
- Trichloroethene (TCE) (E-4) – 740 µg/m$^3$;
- Vinyl chloride (E-4) – 63 µg/m$^3$; and
- TPH-g (E-4) – 820,000 µg/m$^3$.

Vinyl chloride was also detected in groundwater at concentrations exceeding its Commercial/Industrial ESL of 0.14 micrograms per liter (µg/L) for groundwater vapor intrusion human health risk (boring E-2, 8.87 µg/L); however, vinyl chloride was not detected in soil vapor sample E-2, which was collected from the same boring as the groundwater sample.

### 2.4.8 Passive Soil Gas and Groundwater Investigation – 2023

Between July 24 and August 9, 2023, Roux conducted the 2023 Investigation at the Site to evaluate whether potential Site contaminants are present in Site soil vapor and groundwater at concentrations that may require mitigation or remediation.

To evaluate Site-wide soil vapor and groundwater, Roux installed 64 passive soil vapor samplers on a grid system across the Site and eight groundwater monitoring wells (MW-10 through MW-17) along the perimeter of the Site. The passive soil vapor samplers were installed at a depth of approximately 1-foot bgs. During groundwater well installation activities, soil samples were also collected from varying discrete depths from each boring. The groundwater monitoring well and passive soil vapor sampling locations are shown in Figure 2.

The passive soil vapor results indicated that PCE, TCE, benzene, and 1,4-dioxane were present at concentrations exceeding their respective RWQCB Commercial/Industrial ESLs. Heat maps of passive soil vapor results provided by Beacon Environmental (Beacon) are included in Appendix B.

The groundwater results indicated that metals (arsenic, barium, chromium, cobalt, lead, and nickel) were detected at concentrations exceeding their respective California MCLs in two or more wells. No other analytes, including pesticides and polychlorinated biphenyls (PCBs), were detected in groundwater above their respective California MCLs or RWQCB Commercial/Industrial ESLs.

The soil results indicated that arsenic, lead, and TPH-d were detected at concentrations exceeding their respective RWQCB Commercial/Industrial ESLs. Further details are available in the Passive Soil Gas and Groundwater Investigation Report (Roux, 2023b).

### 2.4.9 Quarterly Groundwater Monitoring – 2023 to 2024

Quarterly groundwater monitoring of wells MW-10 through MW-17 has been conducted at the Site since the fourth quarter of 2023. The eight groundwater monitoring wells (MW-10 through MW-17) were gauged, purged, and sampled according to low-flow sampling methodologies in November 2023, January 2024, April 2024, and July 2024 (Roux, 2023b; Roux, 2024a; Roux, 2024b; Roux, 2024d; Roux, 2024e). Groundwater flow direction, calculated hydraulic gradient, and groundwater quality conditions underlying the Site were assessed during each quarterly monitoring event. A groundwater elevation contour map from the Third Quarter 2024 is provided in Figure 4.

Groundwater monitoring analytical data collected over the past three quarterly groundwater monitoring events indicate that concentrations of VOCs, TPHs, and metals are generally consistent from quarter to quarter, indicating that groundwater conditions at the Site are relatively stable. Since commencing quarterly groundwater monitoring at the Site, the following constituents have been identified exceeding their respective screening criteria:

- Arsenic (maximum of 13 µg/L detected in well MW-13);
- Cobalt (maximum of 8.0 µg/L detected in well MW-17);
- Lead (maximum of 18 µg/L detected in well MW-16);
- TPH-g (maximum of 1,300 µg/L detected in well MW-11);
- TPH-d (maximum of 530 µg/L detected in well MW-16);
- 1,1-DCE (maximum of 360 µg/L detected in well MW-12);
- 1,2-Dichloroethane (1,2-DCA) (maximum of 0.9 µg/L detected in well MW-11);
- Methyl-tert butyl ether (MTBE) (maximum of 6.1 µg/L detected in well MW-15); and
- Vinyl chloride (maximum of 5.6 µg/L detected in well MW-12).

Groundwater monitoring data from the three quarterly events indicates that concentrations for VOCs, TPHs, and metals are consistent with or lower than concentrations detected during the 2006 July/August investigation (BSK, 2007) and the 2023 Investigation.

### 2.4.10 Langan Geotechnical Investigation – 2024

In May 2024, Langan prepared a work plan to implement a Supplemental Geotechnical Exploring Program at the Site (Langan, 2024). Langan implemented the Supplemental Geotechnical Exploration Program in June 2024 to supplement available geotechnical information with additional geotechnical data in locations that were previously inaccessible prior to the demolition of the above-grade structures at the Site. Langan advanced 11 cone penetration test (CPT) borings (LC-1 through LC-11) across the Site, as shown on Figure 2. The CPT data collected during this geotechnical investigation is provided in Appendix C and has been incorporated into the updated geologic cross sections presented in Appendix A.

## 2.5 Proposed Site Redevelopment

Prologis intends to redevelop the Site with the construction of an approximately 320,000-square-foot warehouse building and associated parking lot. Utility corridors throughout the Site will provide access for underground utilities to the proposed warehouse. Bio-swales along the perimeter of the Site are also proposed for construction during redevelopment activities. The proposed warehouse building footprint, utility corridor, and bio-swales are shown in Figure 5.

## 2.6 Contaminants of Potential Concern

Based on historical and nearby Site operations, as well as analytical data associated with investigation activities, the following contaminants of potential concern (COPCs) have been identified for the Site. The table below lists the COPCs associated with the Site, as well as their potential source(s).

| COPC | Potential Source(s) |
|---|---|
| Metals (arsenic, barium, beryllium, cadmium, chromium, copper, nickel, lead, and zinc) in soil and/or groundwater | Historical use of the Site as a foundry and former residential dwellings and other buildings present on the Site since 1925. |
| TPH-g, TPH-d, benzene, ethylbenzene, naphthalene, and toluene, in soil and/or groundwater; TPH-g, benzene, ethylbenzene, naphthalene, and toluene in soil vapor, possibly posing a vapor intrusion risk | Historical industrial use of the Site as a foundry and petroleum hydrocarbons stored/released near the former USTs, fuel dispensers, aboveground storage tanks (ASTs), and storage facility and yard areas. |
| VOCs, including 1,1-dichloroethane, 1,1-DCE, cis-1,2-DCE, PCE, TCE, and vinyl chloride, in soil gas and/or groundwater possibly posing a vapor intrusion risk | Historical industrial use of the Site as a foundry and VOC-containing chemicals stored/released near the former USTs, ASTs, wastewater treatment plant, and special finishing storage facility. |

## 2.7 DGI Scope of Work

As listed in Section 1, the scope of the DGI intended to: 1) delineate VOCs in soil vapor from additional step-out passive soil vapor sample locations; 2) confirm previously detected VOCs in passive soil vapor samples by installing and sampling permanent soil vapor probes at the Site; 3) assess VOC concentrations in soil vapor and bioattenuation potential by installing and sampling permanent soil vapor probes; 4) interpret the potential vapor intrusion risk extent from soil vapor beneath the Site; and 5) assess COPC concentrations in shallow soil from across the Site and within proposed utility corridors and bio-swales.

The scope of work of this DGI included the following:

- Advancement of 57 borings for the collection of soil and grab groundwater samples to a maximum depth of 35 feet bgs;
- Installation and sampling of 22 permanent active soil vapor probes;
- Collection of passive soil vapor samples at 16 locations.

The soil and grab groundwater sampling locations are shown on Figure 5, and the active soil vapor probe and passive soil vapor sampling locations are shown on Figure 6.

# 3 Pre-Field Activities

This section provides details regarding pre-field activities in accordance with the approved Work Plan at the Site.

## 3.1 Health and Safety Plan

Roux prepared a Site-specific Health and Safety Plan (HASP) to provide guidelines to all Site workers and visitors during fieldwork. The HASP was always kept on Site when fieldwork occurred. The HASP was reviewed daily and was signed by all Site workers prior to commencing work.

## 3.2 Permits

Prior to initiating subsurface investigations, Roux obtained permits for all borings from the ACPWA. Permit numbers W2024-0329 and W2024-0330 were approved on May 17, 2024, and are presented in Appendix D.

## 3.3 Sample Grid and Sample Identification Nomenclature

As part of the Work Plan development and pre-field planning activities in anticipation of implementation of this DGI, Roux subdivided the Site into a 150-foot by 150-foot grid to characterize near-surface soil across the Site, as shown on Figure 5. The grid consisted of three rows numbered 1 through 4 and nine columns lettered A through I.

### 3.3.1 Soil Boring Location Identification Nomenclature

To indicate the intended purpose of each soil boring within the grid, Roux identified each boring type with a descriptive prefix. The following prefixes were used to identify different boring types:

- “G” – soil boring intended to provide Site-wide grid coverage;
- “UC” – soil borings located in the planned utility corridor;
- “BS” – soil borings located on the planned bio-swales.

Some soil boring locations had more than one intended purpose, and in those instances, a combined prefix of “G/UC” or “G/BS” was assigned. Following the boring prefix, the grid letter and number were then identified (i.e., A1 for a soil boring in cell A1). Finally, the boring was assigned a sequential number to help identify when multiple borings of the same purpose were located within the same grid cell. For example, in grid cell B4, two utility corridor samples were proposed. One of those locations also represented a Site-wide grid sampling location and therefore includes a combined prefix. The following nomenclature was utilized for the two B4 utility corridor borings:

- G/UC-B4-1: representing a soil boring intended for Site-wide grid coverage and utility corridor exploration in grid cell B4; and,
- UC-B4-2: representing a second utility corridor exploration soil boring within grid cell B4.

### 3.3.2 Soil Sample Identification Nomenclature

Discrete soil samples collected within each soil boring were identified by adding the sample depth to the end of the sample ID. The sample depth represented the deepest portion of the sample interval collected. For

example, a soil boring collected from boring location G-A1-1 between 0.5 and 1 foot bgs was given the following sample ID:

- G-A1-1-1.0

It should be noted that the sampling depth nomenclature was subsequently removed from the sample ID during tabulation of the data set. The sample depth is instead indicated in a separate row associated with the sample location.

### 3.3.3 Groundwater Boring and Sample Identification Nomenclature

Boring locations where groundwater samples were proposed followed a separate naming convention. Groundwater sampling locations were identified by the following prefixes:

- "GW" – groundwater sampling location targeting areas of previously detected COPCs in the subsurface; and,
- "P" – groundwater sampling locations targeting subgrade pits that were identified following demolition of the above-grade structures at the Site.

Some groundwater sampling borings were combined with soil sampling borings within the same borehole. At these locations, the groundwater sampling nomenclature was added to the end of the soil boring nomenclature. Additionally, at the "GW" sampling locations, multiple water-bearing depths were targeted during the investigation. First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification of aquicludes (i.e., low permeability silts and clays) separating saturated material. Samples collected from the first encountered water-bearing zone were given a "-1" at the end of the sample ID and a "-2" for samples collected from the second encountered water-bearing zone.

It should be noted that "P" groundwater sample IDs do not contain a "-1" indicating the samples were all collected from the first encountered water-bearing zone.

### 3.3.4 Soil Vapor Sample Identification Nomenclature

Active soil vapor probe sampling locations that where installed at locations corresponding to previous passive soil vapor sample locations, began with the prefix "SVP" to denote the active soil vapor sample to be collected from a permanent active soil vapor probe, followed by the previous passive soil vapor sample location number, and then followed by the depth the soil vapor probe was installed. For example, the active soil vapor probe installed at the previous passive soil vapor sample location PSG-41 at 5 feet bgs was identified as "SVP-41-5".

Step-out passive soil vapor sample locations began with the prefix "PSG" to denote the passive soil vapor sample to be collected from the passive soil vapor sample location. Four passive soil vapor sample locations were installed in a 25- by 25-foot grid centered around the previously investigated passive soil vapor sample locations and were identified ending in "A" through "D". For example, the step-out passive soil vapor sampling locations surrounding the previous passive soil vapor probe, PSG-41, were identified as "PSG-41A", "PSG-41B", "PSG-41C", and "PSG-41D".

# 4 Investigation Field Activities

This section describes the implementation of field activities in accordance with the approved Work Plan. Field DGI activities were completed between May 15 and June 4, 2024.

## 4.1 Surveying

Roux contracted with Cal Vada Surveying Inc. (Cal Vada), a California State-registered surveyor, to measure the horizontal coordinates and vertical elevation of all proposed boring locations, in accordance with State of California requirements. On May 15 and 16, 2024, Cal Vada, under the oversight of Roux, surveyed all proposed sample locations. A Site plan with the survey data of each sample location is provided in Appendix E.

## 4.2 Utility Location and Borehole Clearance

Roux contacted Underground Service Alert of Northern California and Nevada (USA North 811) 48 hours prior to subsurface activities and submitted a USA Ticket (Ticket #2024051302814) to notify utility operators of the planned work and to request the marking of nearby utilities (i.e., natural gas, electric, water, sewer, telephone, fiber optic, etc.). Additionally, Roux contracted with two private geophysical services and utility locating firms, Subtronic Corporation (Subtronic) and Ground Penetrating Radar Services (GPRS), to evaluate the proposed boring locations and mark out existing subsurface utility lines to mitigate the risk of potentially damaging subsurface utilities at the Site.

On May 15, 16, 17, and 20, 2024, Subtronic and/or GPRS cleared the proposed boring locations of subsurface utilities under the oversight of Roux.

## 4.3 Boring Advancement

Between May 15 and June 4, 2024, Cascade Drilling (Cascade), under the oversight of Roux, advanced a total of 70 borings for the collection of soil, groundwater, and soil vapor samples (Figure 5 and 6). All borings were advanced from the ground surface using direct push technology (DPT). The depth of the borings varied from 5 feet bgs to a maximum depth of 35 feet bgs. Cascade used a star drill bit to penetrate the concrete and/or asphalt surfaces at each boring location. Dual tube DPT drill rods with Macro-core acetate liners were utilized for soil and groundwater sample collection. The dual tube DPT method minimizes cross contamination between water-bearing zones as soil is removed from the inner liner while the outer casing remains at depth until immediately prior to groundwater sample collection.

Soil was logged by a Roux field geologist under the oversight of a California licensed Professional Geologist in accordance with the Unified Soil Classification System (USCS). Headspace measurements for organic vapors in soil were then collected from the sealed bags in the field using a photo-ionization detector (PID). Soil from each sample interval (or approximately every 2 feet) was placed in a sealable plastic bag, the bag was sealed, and the soil broken up to allow for volatilization of organics within the soil. A detailed field boring log of each boring was prepared noting soil type, soil color, groundwater depth, moisture, (density, stiffness, and plasticity, as applicable), and PID headspace readings. Boring logs are included in Appendix F.

Borings proposed for the collection of groundwater at the locations identified as “GW-” were advanced to the observed depth of first and second encountered water-bearing zones based on observations of soil saturation and aquicludes separating saturated soil units while drilling. Each “GW-” location consisted of co-located

borings targeting the two water-bearing zones to minimize cross-contamination during sample collection. At each suspected water-bearing zone, the presence of sufficient groundwater for sampling was assessed by lifting the drill casing above the suspected groundwater zone and monitoring the groundwater recharge within the drill casing. Once it was determined that the targeted water-bearing zone was suitable for sample collection, grab groundwater sampling was performed. Groundwater sample collection methods are discussed below in Section 4.7.

Drilling casing was decontaminated between boring locations. Decontamination consisted of removing visible soil particles from the drilling equipment, washing and scrubbing the drilling equipment with water containing a detergent (i.e., Alconox®), and triple rinsing the equipment to removal the detergent solution. All decontamination water was contained in 55-gallon Department of Transportation (DOT) rated drums, labeled, and stored at the Site pending waste characterization and disposal.

## 4.4 Soil Vapor Probe Installations

On May 21, 24, 28, 29, 2024, under the oversight of Roux, Cascade installed twenty one soil vapor probes at the Site: SVP-06-5, SVP-06-8, SVP-10-5, SVP-10-8, SVP-13-5, SVP-13-8, SVP-25-5, SVP-25-8, SVP-32-5, SVP-32-8, SVP-36-5, SVP-36-8, SVP-41-5, SVP-41-8, SVP-45-5, SVP-52-5, SVP-52-8, SVP-53-5, SVP-57-5, SVP-61-4, and SVP-62-4 (Figure 6).

The soil vapor probes for active soil vapor sampling (active soil vapor probes) were installed in accordance with the Work Plan and the California Department of Toxic Substance Control (DTSC) *Soil Gas Advisory* guidance (DTSC, 2015). The active soil vapor probes were installed on a concrete or soil surface as permanent soil vapor wells. Approximately 1 foot of sand was placed at the bottom of the borings surrounding the soil vapor probe tip and well tubing, followed by 1 foot of dry granular bentonite, filled to within six inches of the surface with neat cement grout, and finished to grade with a traffic rated well box. At select locations (SVP-06-8, SVP-10-8, SVP-13-8, SVP-25-8, SVP-32-8, SVP-36-8, SVP-41-8, SVP-52-8, SVP-53-5, and SVP-57-5) low-permeability soil was encountered and the permanent active soil vapor wells were installed with 2 feet of sand placed at the bottom of the borings surrounding the soil vapor probe tip, followed by 1 foot of dry granular bentonite, filled to within six inches of the surface with neat cement grout, and finished to grade with a traffic rated well box. Each permanent active soil vapor probe consists of 1/4-inch-diameter Teflon tubing with a stainless-steel filter tip installed at 4, 5, and/or 8 feet bgs centered within the layer of sand (soil vapor probe depth is indicated by the last number in the soil vapor well name). The active soil vapor probes were allowed to equilibrate for at least 48 hours before collecting samples per DTSC *Soil Gas Advisory* guidance (DTSC, 2015). The well construction logs are included in boring logs (Appendix F).

## 4.5 Passive Soil Vapor Sampler Installations

On May 20, 2024, Cascade, under the oversight of Roux, installed 16 Beacon Environmental (Beacon)-supplied passive soil vapor samplers at the Site: PSG-10A through PSG-10D, PSG-25A through PSG-25D, PSG-41A through PSG-41D, and PSG-62A through PSG-62D (Figure 6).

The samplers were installed following advancement of a boring through the surficial hardscape into the underlying soils using a rotary hammer drill and fitted with a 1-1/2-inch-diameter hole drill bit to the designated sample depth. Sixteen (16) of the samplers were installed in hardscape areas covered with concrete slab or asphalt ranging from approximately 6 to 8 inches thick. Once through the surfacing, a 1/2-inch-diameter drill bit was used to extend the hole a minimum of 3 feet (ft) below the hardscape. The hole was then sleeved with a pre-cleaned, aluminum pipe that was pushed or tapped into the drilled hole using a hammer or tapping

dowel. Once installed, the bottom of the pipe was at approximately 12 inches bgs. The sampler was installed inside the metal pipe and the hole was patched with an aluminum foil plug and a thin concrete patch to protect the sampler and seal the borehole during sample collection. A passive soil vapor sampler construction detail is provided in Appendix G.

## 4.6 Soil Sampling and Analysis

Soil samples were collected from each boring location in accordance with the Work Plan at depths detailed on Table 1. If stained/discolored soil was observed or an elevated PID response greater than 10 parts per million was measured in a headspace sample while logging subsurface soils, additional soil samples were collected. A total of 289 soil samples were collected during this DGI. To minimize volatilization during transport following sampling, soil samples for VOCs were collected into laboratory-provided Terra Core® containers. Soil samples for all other analysis were collected into laboratory provided glass jars. All samples were appropriately labelled, packaged, and immediately placed on ice for delivery under COC protocols to Pace Analytical (Pace), a California-certified laboratory, for environmental analyses. Soil samples were analyzed for all/some of the following analytical tests and reported on a dry-weight basis:

- VOCs by USEPA Method 8260B;
- Semi-volatile organic compounds (SVOCs) by USEPA Method 8270C;
- TPH-g, TPH-d and TPH as motor oil (TPH-mo) by USEPA Method 8015;
- Title 22 Metals by USEPA Method; and,
- PCBs by USEPA Method 8082A.

Of the 289 samples collected, 267 soil samples were analyzed for one or more of the analyses listed above. The remaining 22 samples were collected for contingency purposes and were ultimately not analyzed. Duplicate samples were not collected due to the heterogeneity of soil. Soil analytical results are summarized in Tables 2 through 6 and the laboratory analytical reports are included in Appendix H.

## 4.7 Groundwater Sampling and Analysis

Grab groundwater sampling was performed at each boring advanced for groundwater sample collection, as detailed on Table 1, in co-located borings for collection of samples from the first and second encountered water-bearing zones from separate borings. Following boring advancement of the dual tube DPT system and identification of the target water-bearing zone at each boring, temporary pre-packed well screen and blank schedule 40 polyvinyl chloride (PVC) casing was installed into the center of the drill rod to the total depth of the boring. The DPT drilling rods were lifted to expose the temporary well screen to the water-bearing zone. For collection of grab groundwater from the second water-bearing zone, Roux ensured that the drill rods were only exposing the second water-bearing zone and were not lifted past the base of the first water-bearing zone (as defined by the observed aquiclude between the distinct water-bearing zones and moisture observations logged while drilling), to avoid cross contamination between the two zones. The drill rods remained in the borings until sampling was complete. The temporary wells were allowed to recharge for at least 1 hour prior to sample collection. Non-stabilized groundwater levels were recorded with a water level meter prior to sample collection.

A low-flow pump (bladder pump) was used to limit volatilization of VOCs during sample collection. Due to the high turbidity of the groundwater within the temporary groundwater wells, Roux purged approximately one casing volume of water from the temporary well casing prior to collecting groundwater samples to reduce the

turbidity of the groundwater samples. Water quality parameters were monitored during the purge at each grab groundwater sampling location using a YSI 556 Multiprobe Water Quality Meter including temperature, pH, conductivity, and turbidity. After approximately one casing volume of water was purged from the temporary groundwater wells, a grab groundwater sample was collected into laboratory-provided sample containers. Groundwater was passed through a 0.45-micron filter for the collection of dissolved metal samples in the field. Groundwater sample containers were labeled, placed on ice, and sent to Pace under chain-of-custody protocol for the following analyses:

- VOCs by USEPA Method 8260B;
- TPH-g/d/mo by USEPA Method 8015; and
- Title 22 Metals by USEPA Method 6010B, 6020 and 7470A (dissolved and total metals analyzed for grab groundwater samples).

A total of 21 grab groundwater samples (including duplicates) were collected and analyzed during this DGI. Following sampling activities, the temporary well casing was removed from each boring and the boring was prepped for backfill. See Section 4.11 for details regarding borehole abandonment activities. The grab groundwater sampling results are summarized in Tables 7 through 10 and the laboratory analytical reports are included in Appendix H. Groundwater Sampling Forms including collected groundwater parameters are presented in Appendix I.

## 4.8 Active Soil Vapor Sampling and Analysis

After each active soil vapor probe was allowed to equilibrate for 48 hours per the DTSC *Soil Gas Advisory* guidance, soil vapor samples were collected into individually certified one-liter evacuated SUMMA® canisters (DTSC, 2015).

Prior to the collection of soil vapor samples, Roux performed an analysis of percent relative error for each one-liter SUMMA® canister to verify initial canister pressure was less than the absolute vacuum. Calculation of the percent relative error introduced by null existing gas (e.g., existing gas that is absent of constituents of concern) uses the following equation:

$$\% \text{ Relative Error} = (P_A - P_I)/(P_A - P_F)$$

Where $P_A$ = absolute vacuum pressure, $P_I$ = initial vacuum pressure within the canister at the start of sampling, and $P_F$ = final vacuum pressure within the canister at the end of sampling.

Assuming a final vacuum pressure of 5 inches of mercury (in-Hg) and an absolute vacuum pressure of 30 in-Hg, the break point for 10% relative error was at 27.5 in-Hg. All canisters used for sample collection were below the 10% relative error criteria.

Next, a “negative pressure shut-in test” was performed to check for leaks in the above-ground soil vapor sampling equipment. The sampling apparatus (sample canister and manifold) were assembled and then put under negative pressure using a 3-way valve and syringe for a six-minute interval. If no loss of canister vacuum was observed, the sampling apparatus was connected to the soil vapor well. Following the “negative pressure shut-in test”, approximately three purge volumes were purged from the sample collection tubing using a GilAir Plus Air Sampling Pump before soil vapor sample collection began. Purge activities were conducted at the same flow rate used for soil vapor sample collection (approximately 150-200 milliliters per minute). During purging and soil vapor sample collection activities, a helium shroud test was performed using

1) a shroud, which enclosed the soil vapor probe vault, probe tubing, and the entire sampling manifold, and 2) helium as a tracer gas. A minimum helium concentration of 20 percent was maintained within the shroud during the purging and soil vapor sample collection period. At the completion of sampling, the aboveground tubing from the permanent soil vapor wells were coiled into the space below the well box and covered using a silicone cap. The samples were labeled appropriately and submitted under chain-of-custody protocol to Enthalpy Analytical (Enthalpy), a California certified laboratory in Berkeley, California.

A total of 22 soil vapor samples (including duplicates) were collected from soil vapor probes using active soil vapor sample collection methods and analyzed during this DGI. The soil vapor sampling results are summarized in Table 11 and the laboratory analytical reports are included in Appendix H. Field sampling criteria, including location, time, sample container and manifold IDs, sampler(s), pressure readings, and helium shroud percentage, were recorded on the Soil Vapor Sampling Logs. The Soil Vapor Sampling Logs are presented in Appendix J.

## 4.9 Passive Soil Vapor Sampling and Analysis

A total of 18 passive soil vapor samples (including duplicates) were collected during this DGI. Sample collection at each location began upon emplacement of the passive soil vapor samplers within each hole. Each sampler was exposed to subsurface gas for 15 days, the typical exposure duration in accordance with laboratory provided standard operating procedures (SOPs) included in Appendix K. Following the exposure period completion, the samplers were retrieved, packaged, and sealed in accordance with the laboratory-provided SOPs. The samplers were then shipped under chain-of-custody protocols to Beacon Environmental (Beacon) for analysis of VOCs and TPH (C-4 to C-9 and C-10 to C15) by EPA Method 8260C.

The passive soil vapor results are summarized in Table 12 and the laboratory analytical reports are included in Appendix H.

## 4.10 Quality Assurance/Quality Control Sampling and Analysis

To assess the reliability of the data gathered during this DGI, Roux collected quality assurance/quality control (QA/QC) samples in accordance with the Work Plan. QA/QC samples included trip blanks, equipment blanks, and duplicate groundwater and soil vapor samples.

Trip blanks were prepared and provided by Pace and Beacon. One trip blank sample was submitted for each day of soil and groundwater sample collection for submittal to Pace for analysis. One trip blank (Trip-1) also accompanied the passive soil vapor samples during transport to Beacon for analysis. All trip blanks shipped to Pace were labeled as “TB-[date of transport]” and traveled in the same container as the soil and groundwater samples. Additionally, an equipment blank sample was collected each day of sample collection from the DPT drill shoe to ensure adequate decontamination procedures were implemented. Equipment blank samples were collected in the field by pouring laboratory provided deionized water over the reusable drilling equipment and collecting the rinse water into laboratory provided containers. Equipment blank samples were labeled as “EB-[date of collection]”, placed in an ice-filled chest, and shipped under chain-of-custody to Pace. The trip blank sent to Beacon was labeled “TB-1”. Trip blank samples were analyzed for VOCs by USEPA Method 8260B. Equipment blank samples were analyzed for the following:

- VOCs by USEPA Method 8260B;
- TPH-g, TPH-d, and TPH-mo by USEPA Method 8260B and/or 8015; and,
- Title 22 metals by USEPA Method 6020 (unfiltered).

The passive soil vapor trip blank was analyzed for VOCs by USEPA Method 8260C. The results of the trip blank and equipment blank samples are presented on Tables 7 through 10 and 12.

A duplicate grab groundwater sample was collected each day during grab groundwater sampling activities. This rate of duplicate sample collection also complied with the one duplicate per 10 samples collected QA/QC requirement. A total of three duplicate grab groundwater samples [P-10 (DUP-1), GW-2-2 (DUP-2), and P-06 (DUP-3)] were collected immediately following collection of their respective primary samples. It is important to note that, due to the requirement to use low-flow sample methodology, sample collection times between primary and duplicate samples were between approximately 1 and 1.5 hours apart. The duplicate samples were contained within laboratory-provided sample containers, labeled appropriately, and placed in an ice-filled chest pending delivery under chain-of-custody protocol to Pace for analysis. Duplicate grab groundwater samples were analyzed for the same constituents as their respective primary samples. The results of the duplicate grab groundwater samples are presented on Tables 7 through 10.

Duplicate active soil vapor samples were collected at a rate of one duplicate per 10 primary active soil vapor samples. A total of three duplicate soil vapor samples [SVP-10-5 (SVP-DUP-1), SVP-13-5 (SVP-DUP-2), and SVP-62-4 (SVP-DUP-3)] were collected using individually certified dual sampling manifold provided by Enthalpy. Duplicate active soil vapor sample results are presented on Table 11.

The laboratory-provided SOP for passive soil vapor sampling indicates that duplicate sample analysis is performed by reanalysis of a primary passive soil vapor sampler. Roux selected two primary samples to be analyzed twice as duplicates (PSG-10A [DUP-01] and PSG-62A [DUP-02]). Duplicate passive soil vapor samples were analyzed by Beacon and are presented on Table 12.

## 4.11 Borehole Abandonment Activities

Following sample collection, each soil and groundwater borehole was abandoned by Cascade in accordance with the requirements of the ACPWA permit under the oversight of an ACPWA inspector. Each borehole was backfilled with neat cement grout to ground surface. For boreholes that extended below groundwater, a tremie pipe was utilized to avoid grout bridging and ensure proper borehole abandonment.

## 4.12 Deviations From Workplan

The following deviations from the Work Plan were made due to unexpected conditions encountered in the field:

- Soil boring and grab groundwater boring G-F3-1/P-03 was advanced to 4.5 feet bgs rather than the targeted 10 feet due to refusal. Two additional step-outs were attempted at G-F3-1/P-03 with each attempt encountering refusal at 4.5 feet bgs. Soil samples were collected to 4.5 ft bgs. No groundwater interface soil sample was collected and no groundwater sample was collected at P-03.
- Soil boring G/UC-H4-1 was advanced to 4.75 feet bgs rather than the targeted 10 feet due to refusal. Two additional step-outs were attempted at G/UC-H4-1 with each attempt encountering refusal at 4.75 feet bgs. Soil samples were collected to 4.75 ft bgs.
- Soil vapor probes SVP-45-8, SVP-57-8, SVP-61-8, and SVP-62-8 were not installed due to first encountered groundwater at approximately 7 feet bgs. However, the shallower (4 to 5 feet bgs) soil vapor probes were installed at each of these soil vapor probe locations.
- Soil vapor sample from probe SVP-32-5 was not collected due to high downhole vacuum during sample purge.

- Soil vapor probes SVP-61-4 and SVP-62-4 were installed at 4 feet bgs rather than the targeted 5 feet bgs due to first encountered groundwater at these boring locations at 5 feet bgs.
- Soil vapor sample at soil vapor well SVP-61-4 was not collected due to water encountered in the sample line during purging.
- The second groundwater zone at GW-1-2 was not observed while drilling. Grab groundwater boring GW-1-2 was advanced to 35 ft bgs and the boring was dry after 24 hours. No grab groundwater sample was collected at GW-1-2.
- Select soil samples intended for analysis for vertical delineation of metals, TPH-d, and PCBs were not analyzed due to the disposal of the samples by the laboratory prior to request for analysis. These samples were disposed of by the laboratory without prior notice to Roux and are identified on Tables 2, 5, and 6 and Figures 7 through 9.

## 4.13 Investigation-Derived Waste

All soil and groundwater investigation-derived waste (IDW) was stored in a Department of Transportation (DOT)-approved 55-gallon drums. Two waste soil drums and two wastewater drums were generated during the investigation. One composite soil sample and one drum-water characterization sample were collected from the drums and submitted under chain-of-custody protocol to Pace for analysis of the following analyses:

- VOCs by USEPA method 8260B;
- Title 22 Metals by USEPA method 6020; and,
- TPH-g, TPH-d, and TPH-mo by USEPA method 8015B.

Upon receipt of laboratory analytical results for the representative samples, the material was profiled as non-hazardous and transported to and disposed of at an appropriate waste disposal facility on August 7, 2024. The non-hazardous waste manifests are included in Appendix L.

# 5 Investigation Results

This section provides the analytical results from the DGI activities. All associated laboratory reports for the foregoing analytical results are included in Appendix H.

## 5.1 Screening Criteria

Based on the objectives of this investigation, analytical data was screened against the following criteria for each specific sampling media (applicable screening levels):

Soil

- Soil sample results are screened against the 2019 RWQCB ESLs for direct exposure for Construction Worker and Commercial/Industrial exposure scenarios (Construction Worker ESL and Commercial/Industrial ESL, respectively); and
- Arsenic concentrations in soil were compared to the accepted background concentration for the San Francisco Bay Region as presented in *Established Background Arsenic in Soil of the Urbanized San Francisco Bay Region* (Duvergé, 2011).
- When Construction Worker or Commercial/Industrial ESLs were not available, the Regional Screening Levels (RSLs) for Industrial Soil were used, if available.

Groundwater

- California and Federal MCLs for Title 22 metals;
- 2019 RWQCB ESLs for direct exposure human health risk levels MCL priority and Commercial Industrial ESLs for vapor intrusion for VOCs; and
- 2019 RWQCB ESLs for direct exposure human health risk levels MCL priority for TPH-chain (TPH-g, TPH-d, and TPH-mo).

Soil Vapor (passive and active)

- 2019 RWQCB Soil Gas ESLs for potential vapor intrusion risk for Commercial/Industrial land use.

## 5.2 Soil Analytical Results

Of the 289 soil samples collected during this investigation, 267 were analyzed for Title 22 metals, VOC, SVOCs, TPH-g, TPH-d/mo, and/or PCB. The remaining 22 samples were collected for contingency purposes and were ultimately not analyzed. The complete list of soil samples and their respective analyses is presented in Table 1. The following constituents detected in soil exceeded their respective applicable soil screening levels as discussed in Section 5.1:

Metals

- Arsenic was detected above screening criteria in 21 soil samples at concentrations ranging between 12.2 (G/UC-B4-1-2.0) and 3,460 mg/kg (G/UC-B1-1-3.0), exceeding the background level of 11 mg/kg;
- Cobalt was detected above screening criteria in one sample (BS-I1-1-3.0) at a concentration of 43.3 mg/kg, exceeding the Construction Worker ESL of 27.9 mg/kg;
- Copper was detected above screening criteria in two samples at concentrations of 15,300 (G-B2-1-2.0) and 28,200 (G-B2-1-3.0) mg/kg, exceeding the Construction Worker ESL of 14,200 mg/kg;

- Lead was detected above screening criteria in 49 soil samples at concentration ranging between 164 (G-D2-1-2.0) and 6,190 (G/BS-F4-1-1.0) mg/kg, exceeding the Construction Worker ESL of 160 mg/kg. Additionally, 30 of the elevated concentrations of lead exceeded the Commercial/Industrial ESL of 320 mg/kg; and
- Nickel was detected above screening criteria in 13 samples ranging between 87.7 (G-B3-1-2.0) and 320 (BS-G1-1-2.0) mg/kg, exceeding the Construction Worker ESL of 86.3 mg/kg.

VOCs

- Benzene was detected above screening criteria in one sample (P-01-16.5) at a concentration of 3.56 mg/kg, exceeding the Commercial/Industrial ESL of 1.45 mg/kg;
- Ethylbenzene was detected above screening criteria in one sample (P-01-16.5) at a concentration of 75.4 mg/kg, exceeding the Commercial/Industrial ESL of 25.9 mg/kg; and
- Naphthalene was detected above screening criteria in one sample (P-01-16.5) at a concentration of 49.6 mg/kg, exceeding the Commercial/Industrial ESL of 16.7 mg/kg.

SVOCs

- Benzo(a)pyrene was detected above screening criteria in six samples at concentrations ranging between 2.84 (G/BS-H1-1.0) and 20 (G-F2-1-1.0) mg/kg, exceeding the Commercial/Industrial ESL of 2.19 mg/kg. Additionally, two benzo(a)pyrene concentrations exceeded the Construction Worker ESL of 10.1 mg/kg;
- Benzo(b)fluoranthene was detected above screening criteria in one sample (G-F2-1-2.0) at a concentration of 25.9 mg/kg, exceeding the Commercial/Industrial ESL of 21.1 mg/kg; and
- Dibenz(a,h)anthracene was detected above screening criteria in one sample (G-F2-1-3.0) at a concentration of 2.21 mg/kg, exceeding the Commercial/Industrial ESL of 2.11 mg/kg.

PCBs

- PCB-1242 was detected above screening criteria in one sample (G-E3-1-1.0) at a concentration of 1.88 mg/kg, exceeding the Commercial/Industrial ESL of 0.94 mg/kg;
- PCB-1254 was detected above screening criteria in two samples at concentrations of 1.14 (G-E3-1-1.0) and 3.69 (G/BS-D4-1-2.0) mg/kg, exceeding the Commercial/Industrial ESL of 0.94 mg/kg; and
- PCB-1260 was detected above screening criteria in four samples at concentrations ranging between 0.997 (G-H3-1-3.0) and 2.51 (G-H2-1-1.0) mg/kg, exceeding the Commercial/Industrial ESL of 0.94 mg/kg.

TPHs

- TPH-g was detected above screening criteria in one sample (P-01-16.5) at a concentration of 2,340 mg/kg, exceeding the Construction Workers and Commercial/Industrial ESLs of 1,820 and 2,000 mg/kg, respectively;
- TPH-d (C12-C22) was detected above screening criteria in five samples at concentrations ranging between 1,430 (G-G1-1-3.0) and 7,040 (SVP-57-5-6.0) mg/kg, exceeding the Construction Worker and Commercial/Industrial ESLs of 1,080 and 1,220 mg/kg, respectively; and
- TPH-d (C22-C32) was detected above screening criteria in 17 samples at concentrations ranging between 1,210 (G-C3-1-4.0) and 20,000 (G-G2-1-3.0) mg/kg, exceeding the Construction Worker ESL of 1,080 mg/kg. Additionally, 16 of the elevated concentrations exceeded the Commercial/Industrial ESL of 1,220 mg/kg.

Concentrations of all other Title 22 metals, VOC, SVOCs, PCBs, TPH-g, TPH-d, and TPH-mo in soil samples were below their respective Construction Worker, Commercial/Industrial ESLs or RSLs for Industrial Soil

(where available). The analytical results for Title 22 metals, VOC, SVOCs, PCBs, and TPH-g/d/mo in soil are summarized in Tables 2 through 6, respectively. All soil samples exceeding applicable screening levels are presented on Figures 7, 8, and 9. The soil laboratory analytical reports are included in Appendix H.

## 5.3 Groundwater Analytical Results

Twenty-one groundwater samples were collected from eighteen temporary groundwater wells (GW-1-1, GW-2-1, GW-2-2, GW-3-1, GW-3-2, GW-4-1, GW-4-2, GW-5-1, GW-5-2, GW-6-1, GW-6-2, P-01, P-02, P-06, P-08, P-10, P-11, and P-12) including three duplicate samples (P-10 [DUP-1], GW-2-2 [DUP-2], and P-06 [DUP-3]) and analyzed for Title 22 metals (total and dissolved), VOCs, and TPH-g/d/mo. The following constituents detected in groundwater exceeded their respective applicable screening criteria as discussed in Section 5.1:

Total Metals

- Total antimony was detected above screening criteria in one sample (P-08) at a concentration of 39.3 µg/L, exceeding the California and Federal MCL of 6.0 µg/L;
- Total arsenic was detected above screening criteria in seven samples (including one duplicate) ranging in concentration between 10.6 (P-02) and 30.5 (P-01) µg/L, exceeding the California and Federal MCL of 10 µg/L;
- Total barium was detected above screening criteria in two samples at concentrations of 1,050 (GW-3-1) and 2,610 (GW-4-1) µg/L, exceeding the California MCL of 1,000 µg/L. Additionally, one elevated concentration exceeded the Federal MCL of 2,000 µg/L;
- Total beryllium was detected above screening criteria in two samples (including one duplicate) at concentrations of 8.59 (P-10) and 9.33 (DUP-3) µg/L, exceeding the California and Federal MCL of 4.0 µg/L;
- Total cadmium was detected above screening criteria in two samples at concentrations of 6.1 (P-11) and 53.3 (P-08) µg/L, exceeding the California and Federal MCL of 5.0 µg/L;
- Total chromium was detected above screening criteria in four samples (including one duplicate) at concentrations ranging between 50.7 (P-10) and 185 (GW-2-2) µg/L, exceeding the California MCL of 50.0 µg/L. Additionally, one elevated concentration exceeded the Federal MCL of 100 µg/L;
- Total lead was detected above screening criteria in nine samples (including two duplicates) ranging in concentration between 24.5 (DUP-2) and 9,470 (P-08) µg/L, exceeding the Federal MCL of 15 µg/L;
- Total nickel was detected above screening criteria in five samples (including two duplicates) ranging in concentration between 131 (GW-6-2) and 364 (DUP-3) µg/L, exceeding the California MCL of 100 µg/L;
- Total zinc was detected above screening criteria in one sample (P-08) at a concentration of 7,100 µg/L, exceeding the Federal MCL of 500 µg/L.

Dissolved Metals

- Dissolved antimony was detected above screening criteria in one sample (P-08) at a concentration of 39.2 µg/L, the California and Federal MCL of 6.0 µg/L;
- Dissolved arsenic was detected above screening criteria in four at concentrations ranging between 13.1 (GW-2-1) and 29.3 (P-01) µg/L, exceeding the California and Federal MCL of 10 µg/L; and
- Dissolved cadmium was detected above screening criteria in one sample (P-11) at a concentration of 5.17 µg/L, exceeding the California and Federal MCL of 5.0 µg/L.

VOCs

- 1,1-Dichloroethane (1,1-DCA) was detected above screening criteria in one sample (P-08) at a concentration of 6.04 µg/L, exceeding the MCL Priority ESL of 5.0 µg/L;
- 1,1-DCE was detected above screening criteria two samples at concentrations of 108 (GW-3-1) 315 (GW-3-2) µg/L, exceeding the MCL Priority ESL of 6.0 µg/L. Additionally, one elevated concentration exceeded the Commercial/Industrial ESL of 280 µg/L;
- Benzene was detected above screening criteria in three samples at concentrations ranging between 2.45 (P-08) and 991 (P-01) µg/L, exceeding the MCL Priority ESL of 1.0 µg/L and the Commercial/Industrial ESL of 1.8 µg/L.
- Cis-1,2-DCE was detected above screening criteria in three samples (including one duplicate) at concentrations ranging between 25.6 (P-08) and 186 (DUP-1) µg/L, exceeding the MCL Priority ESL of 6.0 µg/L;
- Ethylbenzene was detected above screening criteria in one sample (P-01) at a concentration of 1,020 µg/L, the MCL Priority ESL of 30 µg/L and the Commercial/Industrial ESL of 15 µg/L for ethylbenzene;
- Naphthalene was detected above screening criteria in two samples at concentrations of 5.84 (GW-6-1) and 275 (P-01) µg/L, exceeding the MCL Priority ESL of 0.17 µg/L. Additionally, one elevated concentration exceeded the Commercial/Industrial ESL of 20 µg/L;
- PCE was detected above screening criteria in two samples at concentrations of 5.57 (P-10) and 6.1 (DUP-3) µg/L, exceeding the MCL Priority ESL of 5.0 µg/L and the Commercial/Industrial ESL of 2.79 µg/L;
- Toluene was detected above screening criteria in one sample (P-01) at a concentration of 70.7 µg/L, exceeding the MCL Priority ESL of 40 µg/L;
- TCE was detected above screening criteria in four samples (including two duplicates) at concentrations ranging between 5.12 (DUP-1) and 6.42 (DUP-3) µg/L, exceeding the MCL Priority ESL of 5.0 µg/L; and
- Vinyl chloride was detected above screening criteria in five samples at concentrations ranging between 1.26 (GW-2-1) and 47.4 (DUP-2) µg/L, exceeding the MCL Priority ESL of 0.5 µg/L and the Commercial/Industrial ESL of 0.14 µg/L.

TPHs

- TPH-g C5-C12 was detected above screening criteria in two groundwater samples at concentrations of 928 (GW-6-1) and 18,300 (P-01) µg/L, exceeding the MCL Priority ESL of 760.0 µg/L;
- TPH-d C12-C22 was detected above screening criteria in 12 samples at concentrations ranging between 293 (GW-2-2) and 2,680 (P-01) µg/L, exceeding the MCL Priority ESL of 200 µg/L for TPH-d C12-C22; and
- TPH-d C22-C32 was detected above screening criteria in 13 samples at concentrations ranging between 208 (P-11) and 2,890 (P-08) µg/L, exceeding the MCL Priority ESL of 200 µg/L.

Concentrations for all other Title 22 metals, VOC, TPH-g, TPH-d, and TPH-mo in groundwater samples were below their respective MCL Priority ESL and Commercial/Industrial ESL or do not have an established ESL. The analytical results for Title 22 metals (total and dissolved), VOC, TPH-g/d/mo in groundwater are summarized in Tables 7 through 10, respectively. All groundwater exceedances of applicable screening levels are presented on Figures 10 and 11. The groundwater laboratory analytical reports are included in Appendix H.

## 5.4 Active Soil Vapor Analytical Results

Twenty-two soil vapor samples were collected by active sampling methods and analyzed for VOC and TPH-g from 19 soil vapor probes (SVP-06-5, SVP-06-8, SVP-10-5, SVP-10-8, SVP-13-5, SVP-13-8, SVP-25-5, SVP-25-8, SVP-32-8, SVP-36-5, SVP-36-8, SVP-41-5, SVP-41-8, SVP-45-5, SVP-52-8, SVP-53-5, SVP-53-8, SVP-57-5, and SVP-62-4) including three duplicate samples (SVP-10-5 [DUP-1], SVP-13-5 [DUP-2], and SVP-62-4 [DUP-3]). Results of VOCs and TPH-g in active soil vapor are presented on Table 11 and shown on Figure 12, with additional isocontours and heat maps for individual analytes shown on Figures 13a through 17. The following constituents detected in active soil vapor exceeded their respective applicable screening levels as discussed in Section 5.1:

- 1,1-DCE was detected above screening criteria in one sample (SVP-36-5) at a concentration of 12,000 µg/m$^3$, exceeding the Commercial/Industrial ESL of 260 µg/m$^3$;
- 1,4-Dichlorobenzene was detected above screening criteria in four samples at concentrations ranging between 270 (SVP-62-4) and 1,300 (SVP-36-5) µg/m$^3$, exceeding the Commercial/Industrial ESL of 37 µg/m$^3$;
- Benzene was detected above screening criteria in nine samples at concentrations ranging between 22 (SVP-06-5) and 170 (SVP-57-5) µg/m$^3$, exceeding the Commercial/Industrial ESL of 14 µg/m$^3$;
- Chloroform was detected above screening criteria in four samples at concentrations ranging between 19 (SVP-13-5 and SVP-DUP-02) and 34 (SVP-13-8) µg/m$^3$, exceeding the Commercial/Industrial ESL of 18 µg/m$^3$;
- PCE was detected above screening criteria in four samples at concentrations ranging between 270 (SVP-25-5) and 1,100 (SVP-25-8) µg/m$^3$, exceeding the Commercial/Industrial ESL of 67 µg/m$^3$;
- TCE was detected above screening criteria in three samples at concentrations ranging between 130 (SVP-62-4, and SVP-DUP-03) and 250 (SVP-25-8) µg/m$^3$, exceeding the Commercial/Industrial ESL of 100 µg/m$^3$;
- Vinyl chloride was detected above screening criteria in six samples (including one duplicate sample) at concentrations ranging between 41 (SVP-32-8) and 320 (SVP-57-5) µg/m$^3$, exceeding the Commercial/Industrial ESL of 5.2 µg/m$^3$; and
- TPH-g was detected above screening criteria in 10 samples at concentrations ranging between 110,000 (SVP-62-4, and SVP-DUP-03]) and 2,300,000 (SVP-10-8) µg/m$^3$, exceeding the Commercial/Industrial ESL of 83,000 µg/m$^3$.

Concentrations for all other VOCs and TPH-g in active soil vapor samples were below their respective 2019 RWQCB Soil Gas ESLs for potential vapor intrusion risk for Commercial/Industrial land use or do not have an established ESL.

Fixed gases are not compared to any screening criteria; however, the analysis can provide important information regarding the potential for bioattenuation and the quality of the chemical results. Results of the fixed gas analysis are provided in Table 11 and summarized below:

- Carbon dioxide was detected in all soil vapor samples (including duplicates) at concentrations ranging between 0.41% and 17%, above the atmospheric percentage of 0.04%, with the maximum percentage of carbon dioxide observed in vapor sample SVP-13-5;
- Carbon monoxide was not detected above its laboratory reporting limit in any of the soil vapor samples;
- Helium, utilized as a leak detection compound, was not detected at any concentration in any samples except two: helium was detected at 0.36% and 0.39% in samples SVP-10-8 and SVP-36-8,

respectively. The Soil Gas Advisory states that an ambient air leak of up to 5% of the minimum helium concentration is acceptable if quantitative tracer testing is performed by shrouding. During sample collection, helium concentrations were maintained at 20% by volume within the sampling shroud. Given this ground concentration and the leak significance threshold of 5%, helium detected at concentrations below 1% (that is, below 5% of the minimum helium shroud concentration of 20%) are not considered to be significant. Therefore, all active soil vapor results are valid as no unacceptable helium leaks were detected;

- Methane was detected above the laboratory reporting limit in 16 samples ranging between 0.25% (SVP-13-8) and 52% (SVP-13-5 and SVP-DUP-02). Of the 16 samples reporting methane concentrations above the laboratory reporting limit, six sample results exceeded the lower explosive limit of 5% for methane with the maximum detection observed in vapor sample SVP-13-8;
- Nitrogen was detected in all samples ranging between 28% and 91%, both below and above the average atmospheric concentration of nitrogen of 78%; and
- Oxygen was detected in 13 soil vapor samples between 3.2% and 19%, below the average atmospheric concentration of 21%. Concentrations in 12 of the 13 sample detections were above 4%, which is the threshold indicating favorable conditions for bioattenuation under aerobic conditions.

## 5.5 Passive Soil Vapor Analytical Results

Eighteen passive soil vapor samples were collected and analyzed for VOCs, TPH-g, and TPH-d from sixteen passive soil vapor samplers (PSG-10A, PSG-10B, PSG-10C, PSG-10D, PSG-25A, PSG-25B, PSG-25C, PSG-25D, PSG-41A, PSG-41B, PSG-41C, PSG-41D, PSG-62A, PSG-62B, PSG-62C, and PSG-62D) including two duplicate samples (PSG-10A [DUP-1] and PSG-62A [DUP-2]). The following constituents detected in passive soil vapor exceeded their respective applicable screening criteria as discussed in Section 5.1:

- Benzene was detected above screening criteria in three samples at concentrations ranging between 14.3 (PSG-25A) and 25 (PSG-25B) µg/m$^3$, exceeding the Commercial/Industrial ESL of 14 µg/m$^3$;
- Naphthalene was detected above screening criteria in three samples (including one duplicate sample) at concentrations ranging between 16.5 (PSG-62B) and 1,210 (DUP-02) µg/m$^3$, exceeding the Commercial/Industrial ESL of 12 µg/m$^3$;
- PCE was detected above screening criteria in two samples at concentrations of 103 (PSG-10C) and 301 (PSG-62D) µg/m$^3$, exceeding the Commercial/Industrial ESL of 67 µg/m$^3$; and
- TCE was detected above screening criteria in six samples at concentrations ranging between 149 (PSG-62C) and 6,440 (PSG-62D) µg/m$^3$, exceeding the Commercial/Industrial ESL of 100 µg/m$^3$.

Concentrations for all other VOCs, TPH-g, and TPH-d in passive soil vapor samples were below their respective 2019 RWQCB Soil Gas ESLs for potential vapor intrusion risk for Commercial/Industrial land use or do not have an established ESL. The analytical results for VOCs, TPH-g, and TPH-d in passive soil vapor are summarized in Table 12 and shown on Figure 12.

## 5.6 Quality Control/Quality Assurance Samples

Quality assurance/quality control samples (QA/QC) were collected in the form of duplicate soil vapor and groundwater samples collected at a minimum of one field duplicate collected for every 10 investigative samples per distinct media sampled. During this investigation, a total of three groundwater duplicate samples (DUP-1 for P-10, DUP-2 for GW-2-2, and DUP-3 for P-06), three active soil vapor duplicate samples (SVP-DUP-01 for SVP-10-5, SVP-DUP-02 for SVP-13-5, and SVP-DUP-03 for SVP-62-4) and two passive soil vapor samples (DUP-01 for PSG-10A and DUP-02 for PSG-62A) were collected and analyzed to check for

sampling and analytical reproducibility. The calculated relative percent difference (RPD) for 9 of the 64 detected compounds was greater than 50%.

- The RPD between the primary and duplicate groundwater sample results for total chromium, total vanadium, and total zinc in DUP-2 and GW-2-2 were greater than 50%;
- The RPD between the primary and duplicate active soil vapor sample results for n-hexane in SVP-DUP-01 and SVP-10-5 was greater than 50%; and
- The RPD between the primary and duplicate passive soil vapor sample results for o-xylene, p&m-xylene, PCE, toluene, and TCE in DUP-01 and PSG-62A were greater than 50%.

All other duplicate compounds were within an acceptable allowance of differences from the primary groundwater samples and primary soil vapor samples, per the Soil Gas Advisory (DTSC, 2015). Duplicate sample results of groundwater are presented in Tables 7 through Table 10, duplicate results of active soil vapor are presented in Table 11, and duplicate results for passive soil vapor are presented on Table 12.

In addition to duplicate samples collected, field quality QA/QC samples for this event were submitted on a daily basis during soil and groundwater sample collection. QA/QC samples consisted of a daily trip blank and equipment blank. One VOC (4-bromofluorobenzene) was detected in each trip blank and equipment blank at concentrations ranging between 15.2 and 18.4 µg/L. 4-Bromofluorobenzene was detected in all primary and duplicate samples within the same range of the detections in equipment blanks. Additionally, one detection of barium was observed in equipment blank sample EB-052124.

# 6 Discussion

This section discusses conditions at the Site as interpreted from the analytical data and field observations from this DGI. The discussion below is organized by media and analytical groups.

## 6.1 Soil

In anticipation of redevelopment activities at the Site, soil samples were collected on a 150-foot by 150-foot grid, within the proposed utility corridors, and along the perimeter of the Site where bio-swales have been proposed. Soil samples collected during this DGI include depth intervals ranging from 0 and 18.5 feet bgs. A preliminary set of collected samples from each boring were analyzed for specific analytes as detailed in the Work Plan. Where concentrations exceeded screening criteria at the maximum depth interval analyzed, the next deepest interval was analyzed for constituents exceeding screening criteria (if available). Soil analytical results of all samples analyzed are presented on Tables 2 through 6. The following subsections discuss detections exceeding screening criteria for each analytical group.

### 6.1.1 Metals in Soil

Soil samples collected and analyzed from the Site contained concentrations of arsenic, cobalt, copper, lead, and nickel above their respective Construction Worker ESL, Commercial/Industrial ESL, and/or accepted background concentrations for the San Francisco Bay Area. The depth ranges for each metal exceeding screening criteria are as follows:

- Arsenic: 0 to 4 feet bgs;
- Cobalt: 2 to 3 feet bgs;
- Copper: 1 to 3 feet bgs;
- Lead: 0 to 4 feet bgs; and
- Nickel: 0 to 4 feet bgs.

Exceedances of screening criteria for arsenic, lead and nickel were observed across most of the Site to some degree. Cobalt and copper exceedances were limited to single detections across the Site. At six boring locations, detections of arsenic, lead, and/or nickel exceeded screening criteria at the maximum sample depth interval analyzed; however, the deeper samples collected were not analyzed due to laboratory disposal of samples without notice. Exceedances of metals screening criteria in soil are depicted on Figure 7.

### 6.1.2 VOCs in Soil

Concentrations of VOCs exceeding their respective Construction Worker and/or Commercial/Industrial ESLs were detected in a single soil sample from boring P-01. This sample was collected at the groundwater interface downgradient of Pit-01 and within the location of three former 10,000-gallon USTs at the Site. VOCs with concentrations above their respective screening criteria included benzene, ethylbenzene, and naphthalene. Exceedances of VOC screening criteria in soil are depicted on Figure 8.

### 6.1.3 SVOCs in Soil

Concentrations of SVOCs exceeding their respective Construction Worker and/or Commercial/Industrial ESLs were detected in six soil samples. The SVOCs in exceedance of screening levels, and the depths of the detected exceedances, are as follows:

- Benzo(a)pyrene: 0 to 4 feet bgs:
- Benzo(b)fluoranthene: 1 to 2 feet bgs: and
- Dibenz(a,h)anthrancene: 2 to 3 feet bgs.

Exceedances of SVOC screening criteria in soil are depicted on Figure 8.

### 6.1.4 TPH in Soil

Concentrations of TPH fractions exceeding their respective Construction Worker and Commercial/Industrial ESLs were detected in 18 soil samples. TPH fractions in exceedance of screening levels, and the depths of the detected exceedances, are as follows:

- TPH-g (C5-12): 15.5 to 16.5 feet bgs;
- TPH-d (C12-C22): 2 to 16.5 feet bgs; and
- TPH-d (C22-32): 2 to 8 feet bgs.

TPH impacts in soil are present in several areas around the Site. Several exceedances are limited to narrow depth intervals, while some exceedances extend to the maximum depths sampled at individual boring locations, with multiple exceedances through the soil profile. Exceedances of TPH screening criteria in soil are depicted on Figure 8.

### 6.1.5 PCBs in Soil

Concentrations of PCBs above their respective Commercial/Industrial ESLs have been detected in shallow soil in four borings. PCB detections are consistently below Construction Worker ESLs. The PCBs in exceedance of the Commercial/Industrial ESLs, and the depths of the detected exceedances, are as follows:

- PCB-1242: 0 to 1 foot bgs;
- PCB-1254: 0 to 2 feet bgs; and
- PCB-1260: 0 to 3 feet bgs.

PCB exceedances are limited across the Site. Exceedances of PCB screening criteria in soil are depicted on Figure 9.

## 6.2 Groundwater

Roux collected grab groundwater samples at 13 locations (P-01, P-02, P-04, P-06, P-08, P-10, P-11, and GW-1 through GW-6) across the Site, targeting data gaps identified following the 2023 Investigation and the demolition of the above grade structures in 2023. Twelve pits were identified following demolition activities at the Site in 2023 and Roux collected nine grab groundwater samples (P-01, P-02, P-04, P-06, P-08, P-10, and P-11, and two duplicate samples) at locations downgradient of each pit or cluster of closely located pits. A groundwater sample was not collected at location P-03 due to refusal before first encountered groundwater. Eight groundwater samples were collected near well MW-12 (GW-1-1 through GW-4-1, GW-2-2 through GW-4-2, and one duplicate sample) to investigate the presence of vinyl chloride previously detected during quarterly groundwater monitoring events. A groundwater sample was not collected at boring GW-1-2 due to the boring being dry. Additionally, four groundwater samples (GW-5-1, GW-5-2, GW-6-1, and GW-6-2) were collected near previously elevated detections of VOCs in passive soil vapor identified during the 2023 Investigation.

### 6.2.1 Metals in Groundwater

Fourteen out of 21 groundwater samples collected and analyzed during this DGI contained concentrations of dissolved and/or total metals above their respective California and/or Federal MCLs. Metals concentrations, including both total and dissolved metals, in 11 groundwater samples (10 primary and one duplicate) collected in the first encountered water-bearing zone exceeded screening criteria; total metals concentrations in three samples (two primary and one duplicate) collected in the second encountered water-bearing zone exceeded screening criteria. Metals with concentrations above screening criteria in each of the water-bearing zones, and the respective sample locations, are as follows:

1st Encountered Water-Bearing Zone:

- Antimony: P-08;
- Arsenic: GW-1, GW-2, GW-3, P-01, P-02, P-08;
- Barium: GW-3, GW-4;
- Beryllium: P-10;
- Cadmium: P-08, P-11;
- Chromium: P-08, P-10;
- Lead: GW-2, GW-3, GW-4, P-08, P-10, P-11, P-12;
- Nickel: P-10; and
- Zinc: P-08.

2nd Encountered Water-Bearing Zone

- Arsenic: GW-2;
- Chromium: GW-2;
- Lead: GW-2; and
- Nickel: GW-2, GW-6.

Most of the exceedances of metals screening criteria were found in the first encountered water-bearing zone. Dissolved metals concentrations did not exceed screening criteria in the second encountered water-bearing zone. Exceedances of metals screening criteria in groundwater are depicted on Figure 10.

### 6.2.2 VOCs in Groundwater

Twelve (nine primary and three duplicate) out of 21 groundwater samples collected and analyzed during this DGI contained VOC concentrations exceeding the California and/or Federal MCLs. A total of 11 groundwater samples (9 primary and two duplicate) in the first encountered water-bearing zone and one sample in the second encountered water-bearing zone contained VOCs at concentrations exceeding screening criteria. VOCs with concentrations above screening criteria in each of the water-bearing zones, and the respective sample locations, are as follows:

1st Encountered Water-Bearing Zone

- 1,1-DCA: P-08;

- 1,1,-DCE: GW-3;
- Benzene: GW-6, P-01, P-08;
- Cis-1,2-DCE: P-06, P-08;
- Ethylbenzene: P-01;
- Naphthalene: GW-6, P-01;
- PCE: P-10, DUP-3;
- Toluene: P-01;
- TCE: P-06, P-10, DUP-3; and
- Vinyl chloride: GW-1, GW-2, GW-3.

2nd Encountered Water-Bearing Zone

- 1,1-DCE: GW-3; and
- Vinyl chloride: GW-3.

Most of the exceedances of VOC screening criteria were found in the first encountered water-bearing zone. Exceedances of VOC screening criteria in groundwater are depicted on Figure 11.

Grab-groundwater sample locations GW-1 through GW-4 were installed to the northwest, west southwest, and south of groundwater monitoring well MW-12, respectively (Figure 11). Vinyl chloride concentrations in groundwater sampled from well MW-12 have ranged from 2.9 to 5.1 µg/L during the last four quarters of groundwater monitoring. Vinyl chloride concentrations in grab-groundwater samples GW-1, GW-2, and GW-3 were 1.26 to 47.4 µg/L, which are similar to the range of concentrations measured in well MW-12. Vinyl chloride was not detected in grab-groundwater samples collected from location GW-4.

### 6.2.3 TPH in Groundwater

Fourteen (12 primary and 2 duplicate) out of 21 groundwater samples collected and analyzed during this DGI contained concentrations of one or more TPH fractions exceeding the California and/or Federal MCLs. Twelve groundwater samples (11 primary and one duplicate) in the first encountered water-bearing zone and two samples (1 primary and 1 duplicate) in the second encountered water-bearing zone contained TPH concentrations exceeding screening criteria. TPH with concentrations above screening criteria in each of the water-bearing zones, and the respective sample locations, are as follows:

1st Encountered Water-Bearing Zone

- TPH-g: GW-6, P-01;
- TPH-d (C12-C22): GW-2, GW-3, GW-4, GW-5, GW-6, P-01, P-02, P-06, P-08; and
- TPH-d (C22-C32): GW-1, GW-2, GW-3, GW-4, GW-5, P-01, P-02, P-06, P-08, P-11.

2nd Encountered Water-Bearing Zone

- TPH-d (C12-C22): GW-2; and
- TPH-d (C22-C32): GW-2.

Most of the exceedances of TPH screening levels in groundwater are found in the first encountered water-bearing zone downgradient of former USTs and existing pits. TPH exceedances in the second encountered water-bearing zone are limited to one location, GW-2 (primary and duplicate samples). Exceedances of TPH screening levels in groundwater are depicted on Figure 11.

## 6.3 Active and Passive Soil Vapor

Roux collected 21 active and 18 passive soil vapor samples (including duplicates) to delineate and confirm previous VOC detections in soil vapor and assess potential bio-attenuation conditions in the subsurface at the Site. Active soil vapor samples were collected from depths between 4 and 8 feet bgs; passive soil vapor samples were collected at approximately 1.0 foot bgs. All soil vapor samples were analyzed for VOCs and TPH-g; active soil vapor samples were also analyzed for fixed gasses (carbon dioxide, carbon monoxide, helium, methane, nitrogen, and oxygen). VOCs with concentrations above screening criteria, and the respective samples, are as follows:

- 1,1-DCA: SVP-36-5;
- 1,4-dichlorobenzene (DCB): SVP-36-5, SVP-36-8 SV-62-4;
- Benzene: SVP-06-5, SVP-13-5, SVP-32-8, SVP-36-8, SVP-53-5, SVP-57-5, SVP-62-4, PSG-25A, PSG-25B, PSG-62A;
- Chloroform: SVP-13-5, SVP-13-8, SVP-25-5,
- Naphthalene: PSG-62B, DUP-02, PSG-62A;
- PCE: SVP-10-5, SVP-25-5, SVP-25-8, PSG-10C, PSG-62D;
- TCE: SVP-25-8, SV-62-4, PSG-41B, PSG-41C, PSG-41D, PSG-62B, PSG-62C, PSG-62D;
- Vinyl chloride: SVP-32-8, SVP-36-5, SVP-45-5, SVP-57-5, SVP-62-4; and
- TPH-g: SVP-10-8, SVP-13-5, SVP-25-5, SVP-36-5, SVP-36-8, SVP-53-5, SVP-57-5, SVP-62-4.

The following discussion presents the delineation of VOCs at each previously identified hot spot and the potential for natural bio-attenuation of petroleum-related compounds (benzene and TPH-g) near the active soil vapor sampling locations sampled during this DGI. Exceedances of VOCs and TPH-g are summarized on Figure 12 and concentration maps of PCE, TCE, benzene, vinyl chloride, and TPH-g concentrations are presented on Figures 13a through 17.

PCE

The highest PCE concentrations in soil vapor had been identified during the 2023 Investigation at passive soil vapor sampling locations PSG-10, PSG-25, and PSG-62. Passive step-out and active soil vapor samples at each of these locations were collected to confirm and delineate PCE in soil vapor, as shown on Figures 13a and 13b.

The active soil vapor sample collected at location SVP-10, coincident with historical location PSG-10, confirmed the presence of elevated PCE concentrations. The passive step-out samples to the north, east, and south delineate the extent of PCE above screening criteria around location SVP-10; however, the PCE concentration in step-out location PSG-10C to the west of location SVP-10 exceeds screening criteria.

The active soil vapor sample collected at location SVP-25, coincident with historical location PSG-25, confirmed the presence of elevated PCE concentrations. The passive step-out samples delineate PCE above

screening criteria in all directions around location SVP-25 because PCE concentrations, when detected, were below screening criteria at all step-out locations.

The active soil vapor sample collected at location SVP-62, coincident with historical location PSG-62, did not contain PCE concentrations above screening levels. The passive step-out samples delineate PCE to the east, north, and west of location SVP-62; however, the PCE concentration in step-out location PSG-62D to the south of location SVP-62 exceeds screening criteria.

No other exceedances of PCE screening criteria in active or passive soil vapor samples were detected at the Site during this DGI. However, the PCE reporting limits for soil vapor samples collected at sample location SVP-36, located to the west of SVP-25, were above PCE screening criteria in soil vapor (Figures 13b).

TCE

The highest TCE concentrations in soil vapor had been identified during the 2023 Investigation at passive soil vapor locations PSG-25, PSG-41, and PSG-62. Passive step-out and active soil vapor samples at each of these locations were collected to confirm and delineate TCE in soil vapor, as shown on Figures 14a and 14b.

At the active soil vapor sample collected at location SVP-25, coincident with historical location PSG-25, the TCE concentration in soil vapor at 5 feet bgs was detected just below the screening criteria while the TCE concentration at 8 feet bgs was detected above screening criteria. TCE was not detected above screening criteria in step-out passive soil vapor samples collected around SVP-25, indicating that the extent of TCE above screening levels has been delineated around location SVP-25.

TCE was not detected above screening criteria in the active soil vapor sample collected at location SVP-41, coincident with historical location PSG-41. However, passive soil vapor samples contain TCE concentrations above screening criteria to the east, south, and west of SVP-41.

The active soil vapor sample collected at location SVP-62, coincident with historical location PSG-62, confirmed the presence of elevated TCE concentrations. TCE was detected above screening criteria in all four step-out passive soil vapor sample locations. The highest TCE concentration was detected in the passive soil vapor sample PSG-62D, to the south of SVP-62.

No other exceedances of TCE screening criteria in active or passive soil vapor samples were detected at the Site during the DGI. However, the TCE reporting limit for the shallow soil-vapor sample collected from active soil vapor sample location SVP-36 was elevated above the TCE screening criteria due to interference related to high TPH-g concentrations in this sample.

Benzene

Results of the 2023 Investigation indicated that benzene exceeded screening criteria in soil vapor across large portions of the Site. Of the 12 active and 16 passive soil vapors sample locations across the Site during the DGI, benzene concentrations at seven active (at 4, 5 and/or 8-feet bgs depth; including two duplicates) and three passive sample locations were equal to or exceeded screening criteria for benzene. The DGI results confirm that benzene is present in soil vapor in most areas of the Site. However, most of the benzene detections are below screening levels and most of the screening-level exceedances are minor (Figures 15a and 15b). Only six benzene detections are greater than two times the screening level of 14 µg/$m^3$.

Figure 15b depicts the DGI soil vapor results with isoconcentrations and heat mapping to demonstrate the estimated extent of benzene concentrations above screening levels around each investigation point.

Vinyl chloride

Vinyl chloride was not detected in soil vapor above its screening criteria during the 2023 Investigation. During the DGI, vinyl chloride was detected above screening criteria at six active soil vapor samples (including one duplicate), primarily at a depth of 4 to 5 feet bgs. However, similar to previous passive soil vapor investigation results, vinyl chloride was not detected above laboratory reporting limits in passive soil vapor samples. Figure 16 depicts the DGI soil vapor results with isoconcentrations to demonstrate the estimated extent of vinyl chloride concentrations above screening levels around each investigation point.

TPH-g

TPH-g was not detected in soil vapor above its screening criteria during the 2023 Investigation. During the DGI, TPH-g was detected above screening criteria in 10 active soil vapor samples (8 primary and 2 duplicates), primarily at a depth of 4 to 5 feet bgs. TPH-g was not detected above screening criteria in any of the passive soil vapor samples analyzed from the Site during the DGI. All TPH-g exceedances of screening criteria were detected within/adjacent to the footprint of the former structures or downgradient of former USTs at the Site.

Bioattenuation Potential for Petroleum-Related Compounds

Bioattenuation potential is evaluated based on the presence of oxygen in the subsurface, among other physical attributes of the Site Conceptual Model at a petroleum release site. Oxygen concentrations above 4% at depths greater than 5 feet bgs generally indicate favorable conditions for bioattenuation of petroleum-related compounds in soil vapor. The DGI provides an initial evaluation of Site-wide subsurface oxygen concentrations. Oxygen concentrations observed across the Site indicate a bioattenuation potential, however, at some locations where concentrations of petroleum-related compounds were detected in exceedance of their respective screening criteria, oxygen in the subsurface appears to have already been consumed via the bioattenuation process. At these locations, concentrations of petroleum compounds exceed acceptable soil-vapor-risk-based limits for their vapor intrusion potential to indoor air, limiting the bioattenuation potential at the Site.

Oxygen data collected at each active soil vapor sampling probe is presented on Table 11 and shown on Figure 12. The oxygen data details the bioattenuation potential for petroleum related compounds detected in soil vapor at the Site. Approximately half of the detections exceeding applicable screening criteria qualify as potential locations where natural bioattenuation of soil vapor impacts can be expected.

# 7 Conclusions and Recommendations

This section presents the conclusions and recommendations based on the results of the DGI.

## 7.1 Soil

In preparation for the anticipated redevelopment of the Site, 267 soil samples were collected and analyzed from across the Site to characterize near-surface soil. Soil samples were analyzed for metals, VOCs, SVOCs, TPH-g/d/mo, and/or PCBs.

Exceedances of applicable screening levels for arsenic, cobalt, lead, nickel, benzene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, ethylbenzene, naphthalene, TPH-g, TPH-d C12-C22, TPH-d C22-32, PCB-1242, PCB-1254, and PCB-1260 were observed in shallow soils at the Site. The exceedances of soil screening criteria are sporadic and relatively minor, except for lead concentrations.

During proposed redevelopment activities for the construction of the 320,000-square-foot warehouse building and associated parking lot at the Site, shallow soil will be reworked and construction workers are likely to be exposed to elevated metals in soil. It is recommended that all soil disturbing activities at the Site be conducted in accordance with the approved Revised Site Management Plan (AB&I, 2011a). Upon completion of redevelopment activities at the Site, the majority of the Site will be covered by the proposed building, concrete, and asphalt, with a thin bio-swale skirting the edges of the Site, as shown in Figure 5. To prevent post-redevelopment exposure of soil impacts within the proposed bio-swales, it is recommended to use geotextile fabric to reduce the exposure of impacted soil during landscaping activities.

The DGI generated a large data set that can be used to evaluate and mitigate risk to construction workers and future commercial/industrial workers at the site. There are sufficient soil data to adequately characterize soil conditions in the planned utility corridors and bio-swales, and that can be used to ensure worker safety. The data collected during this DGI are sufficient to inform waste management decisions. However, additional data may be collected as needed to satisfy landfill requirements and the Revised Site Management Plan.

The nearly complete coverage of the Site with the planned building and paved areas will eliminate direct contact with soil after Site redevelopment is completed. A land use covenant (LUC) will be required for the Site. The LUC and related documents will provide protection for potential receptors through the maintenance of engineering and institutional controls. Additional characterization of soil at the Site would not provide any needed information and, therefore, is not warranted or recommended.

## 7.2 Groundwater

Roux collected groundwater samples at 13 locations (P-01, P-02, P-04, P-06, P-08, P-10, P-11, and GW-1 through GW-6) across the Site and analyzed for total and dissolved metals, VOCs, and TPH with the purpose of targeting data gaps identified following the 2023 Investigation and the demolition of the historical structures in November 2023.

Exceedances of applicable screening criteria for arsenic, barium, beryllium, cadmium, chromium, lead, nickel, zinc, 1,1-DCA, 1,1-DCE, benzene, cis-1,2-DCE, ethylbenzene, naphthalene, PCE, toluene, TCE, vinyl chloride, TPH-g, and TPH-d were detected in groundwater samples collected at the Site. The screening-level exceedances for organic compounds and dissolved metals are relatively minor. The data collected during the DGI and the data collected quarterly from permanent wells provide an adequate characterization of

groundwater conditions at the Site. The existing monitoring wells will continue to be sampled quarterly with the next round scheduled during fourth quarter 2024. No additional groundwater investigations are warranted or recommended.

## 7.3 Soil Vapor

Active and passive soil vapor samples collected during this DGI confirmed the presence of previously detected compounds in soil vapor at the Site, including 1,1-DCE, 1,4-DCB, benzene, chloroform, naphthalene, PCE, TCE, vinyl chloride, and TPH-g. Passive step-out soil vapor samples provided limited delineation of previously detected VOCs. Data collected during this DGI provide delineation of the lateral extent of VOCs in soil vapor, relative to screening criteria.

Based on the soil vapor results of this investigation, Roux recommends the development of a Vapor Intrusion Site Conceptual Model (VICSM) in accordance with ACEHD's Decision Matrix for Development Vapor Intrusion Conceptual Site Model and Vapor Intrusion Risk Classification, dated May 14, 2021. The DGI results provide the data needed to prepare the VICSM. Therefore, no additional soil-vapor investigations are warranted or recommended.

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Table 1. Sampling and Analysis Summary, AB and I Redevelopment; Oakland, California.

| Location / Sample ID | Sample Grid | Sample Depths[1] | Analyses[2] | | | | | | | | | | | | | | | Purpose/Rationale | Deviations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | | | | | | Water | | | Soil Gas | | | | | | | |
| | | | VOCs | SVOCs | TPH-g | TPH-d/ -mo | CAM 17 Metals | PCBs | VOCs | TPH g/d/mo | CAM 17 Metals | VOCs | TPH C4 - C9 | TPH C10 - C15 | TO-3 | TO-15 | Fixed Gases | | |
| **Soil & Grab Groundwater Sampling Locations** | | | | | | | | | | | | | | | | | | | |
| G-A1-1 | A1 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid A1. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | ● | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G/BS-A2-1 | A2 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid A2 and the extent of the proposed bio swale and evaluate magnitude and extent of previous investigation. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | ● | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| UC-A2-1 | A2 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions in the proposed utility corridor. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | | | | | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | | | | | | | | | | | | | | | | |
| G/BS-A3-1 | A3 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid A3 and the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| UC-A3-1 | A3 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions in the proposed utility corridor. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | | | | | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | | | | | | | | | | | | | | | | |
| BS-B1-1 | B1 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G/UC-B1-1 | B1 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid B1 and the proposed utility corridor. | G/UC-B1-1-5.0 soil sample not analyzed for arsenic due to lab disposing of sample without notice. |
| | | 1.0 - 2.0 | ● | ● | | | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | ● | | | | As | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | ● | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | ● | | | | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | ● | | | | | | | | | | | | | | | |
| G-B2-1 | B2 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid B2. | G-B2-1-5.0 soil sample not analyzed for lead due to lab disposing of sample without notice. |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | Cu, Pb, Ni | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | ● | ● | ● | | | | | | | | | | | | | |
| G-B3-1 | B3 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid B3. | G-B3-1-5.0 soil sample not analyzed for nickel due to lab disposing of sample without notice. |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | ● | | | | Ni | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| GW-5 | B3 | GW interface - 9.5 - 10 ft bgs | ● | | ● | ● | | | | | | | | | | | | Assess TCE impacts in groundwater proximate to PSG-41. | – |
| | | 1st Encountered GW - 10 - 14.5 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |
| | | 2nd Encountered GW - 20.5 - 25 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |

Table 1. Sampling and Analysis Summary, AB and I Redevelopment; Oakland, California.

| | | | Analyses[2] | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | | | | | | Water | | | Soil Gas | | | | | | | |
| Location / Sample ID | Sample Grid | Sample Depths[1] | VOCs | SVOCs | TPH-g | TPH-d/-mo | CAM 17 Metals | PCBs | VOCs | TPH g/d/mo | CAM 17 Metals | VOCs | TPH C4 - C9 | TPH C10 - C15 | TO-3 | TO-15 | Fixed Gases | Purpose/Rationale | Deviations |
| G/UC-B4-1 | B4 | 0.5 - 1.0 | | ● | ● | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid B4 and the proposed utility corridor. | – |
| | | 1.0 - 2.0 | ● | ● | ● | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | ● | | ● | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | ● | | ● | | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | | | | | | | | | | | | | | | | |
| UC-B4-2 | B4 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions in the proposed utility corridor. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | | | | | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | | | | | | | | | | | | | | | | |
| BS-C1-1 | C1 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G/UC-C1-1 | C1 | 0.5 - 1.0 | | ● | ● | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid C1 and the proposed utility corridor. | – |
| | | 1.0 - 2.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | ● | ● | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | | | | | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | | | | | | | | | | | | | | | | |
| G-C2-1 | C2 | 0.5 - 1.0 | | ● | ● | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid C2. | – |
| | | 1.0 - 2.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | ● | ● | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G-C3-1 | C3 | 0.5 - 1.0 | | ● | ● | ● | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid C3. | – |
| | | 1.0 - 2.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | ● | ● | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G/UC-C4-1/P-10 | C4 | 0.5 - 1.0 | | ● | ● | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid C4 and the utility corridor. Following the collection of the utility corridor shallow soil samples, an additional soil sample was collected at the observed groundwater interface. Grab groundwater was collected to assess groundwater conditions immediately downgradient of PIT-10. | G/UC-C4-1-5.0 soil sample not analyzed for lead due to lab disposing of sample without notice. |
| | | 1.0 - 2.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | ● | ● | Pb | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | | | | | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | | | | | | | | | | | | | | | | |
| | | GW interface - 18.5 - 19 ft bgs | ● | | ● | ● | | | | | | | | | | | | | |
| | | 1st Encountered GW - 18.5 - 20 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |
| BS-D1-1 | D1 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G-D1-1 | D1 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid D1. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |

Table 1. Sampling and Analysis Summary, AB and I Redevelopment, Oakland, California.

| | | | Analyses[2] | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | | | | | | Water | | | Soil Gas | | | | | | | |
| Location / Sample ID | Sample Grid | Sample Depths[1] | VOCs | SVOCs | TPH-g | TPH-d/-mo | CAM 17 Metals | PCBs | VOCs | TPH g/d/mo | CAM 17 Metals | VOCs | TPH C4 - C9 | TPH C10 - C15 | TO-3 | TO-15 | Fixed Gases | Purpose/Rationale | Deviations |
| B-D2-1 | D2 | 0.5 - 1.0 | | ● | ● | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid D2. | – |
| | | 1.0 - 2.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | ● | ● | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G-D3-1 | D3 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid D3. | G-D3-1-4.0 soil sample not analyzed for arsenic due to lab disposing of sample without notice. |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G/BS-D4-1 | D4 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid D4 and the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | ● | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| BS-E1-1/GW-1 | E1 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale and at the groundwater interface. **Co-located boring with GW-1.** Following the collection of the proposed bio swale soil samples, an additional soil sample was collected at the observed groundwater interface. Grab groundwater sampling will be attempted at two depth intervals to assess vinyl chloride impacts in groundwater proximate to MW-12. | GW-1 advanced to 35 ft bgs and boring was dry after 24 hours. No 2nd encountered grab groundwater sample collected at GW-1.<br>BS-E1-1-5.0 soil sample not analyzed for lead due to lab disposing of sample without notice. |
| | | 1.0 - 2.0 | ● | ● | | | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | ● | | | ● | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | GW interface - 13 - 13.5 ft bgs | ● | | ● | ● | | | | | | | | | | | | | |
| | | 1st Encountered GW - 12 - 15 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |
| | | ~~2nd Encountered GW~~ | | | | | | | | | | | | | | | | | |
| G-E1-1/GW-2 | E1 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions and evaluate magnitude and extent of previous investigation. **Co-located boring with GW-2.** Following the collection of the proposed bio swale soil samples, an additional soil sample was collected at the observed groundwater interface. Grab groundwater was collected at two depth intervals to assess vinyl chloride impacts in groundwater proximate to MW-12. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | ● | ● | ● | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | GW interface - 13 - 13.5 ft bgs | ● | | ● | ● | | | | | | | | | | | | | |
| | | 1st Encountered GW - 13 - 13.5 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |
| | | 2nd Encountered GW - 18 - 25 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |
| GW-3 | E1 | GW interface - 12.5 - 13 ft bgs | ● | | ● | ● | | | | | | | | | | | | Further assess vinyl chloride impacts in groundwater proximate to MW-12. | – |
| | | 1st Encountered GW - 12.5 - 15 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |
| | | 2nd Encountered GW - 18.5 - 20 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |
| G-E2-1 | E2 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid E2. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G-E3-1 | E3 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid E3. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | ● | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| G/BS-E4-1 | E4 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid E4 and the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| P-11 | E4 | GW interface - 12 - 12.5 ft bgs | ● | | ● | ● | | | | | | | | | | | | Assess groundwater conditions immediately downgradient of PIT-11. | – |
| | | 1st Encountered GW - 12 - 13.5 ft bgs | | | | | | | ● | ● | ● | | | | | | | | |
| BS-F1-1 | F1 | 0.5 - 1.0 | | ● | ● | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | ● | ● | ● | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | ● | | ● | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |

Table 1. Sampling and Analysis Summary, A8 and I Redevelopment, Oakland, California.

| Location / Sample ID | Sample Grid | Sample Depths[1] | Analyses[2] | | | | | | | | | | | | | | | Purpose/Rationale | Deviations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | | | | | | Water | | | Soil Gas | | | | | | | |
| | | | VOCs | SVOCs | TPH-g | TPH-d/-mo | CAM 17 Metals | PCBs | VOCs | TPH g/d/mo | CAM 17 Metals | VOCs | TPH C4 - C9 | TPH C10 - C15 | TO-3 | TO-15 | Fixed Gases | | |
| G-F1-1 | F1 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid F1. | – |
| | | 1.0 - 2.0 | • | • | | | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | Pb, Ni | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| GW-4 | F1 | GW Interface - 13 - 13.5 ft bgs | • | | • | • | | | | | | | | | | | | Further assess vinyl chloride impacts in groundwater proximate to MW-12. | – |
| | | 1st Encountered GW - 13.5 - 14 ft bgs | | | | | | | • | • | • | | | | | | | | |
| | | 2nd Encountered GW - 22 - 23 ft bgs | | | | | | | • | • | • | | | | | | | | |
| G-F2-1 | F2 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid F2. | – |
| | | 1.0 - 2.0 | • | • | | | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | • | • | • | | | | | | | | | | | | | |
| P-02 | F2 | GW Interface - 12 - 12.5 ft bgs | • | | • | • | | | | | | | | | | | | Assess groundwater conditions immediately downgradient of PIT-02. | – |
| | | 1st Encountered GW - 12.5 - 13 ft bgs | | | | | | | • | • | • | | | | | | | | |
| G-F3-1/P-03 | F3 | 0.5 - 1.0 | | • | • | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid F3. Following the collection of the baseline shallow soil samples, an additional soil sample was collected at the observed groundwater interface. Grab groundwater sampling will be attempted to assess groundwater conditions immediately downgradient of PIT-3. | G-F3-1/P-03 boring encountered refusal at 4.5 ft bgs. Soil samples collected up to 4.5 ft bgs. No groundwater interface soil sample collected and no groundwater sample collected. |
| | | 1.0 - 2.0 | • | • | • | • | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 4.5 | • | | • | • | | | | | | | | | | | | | |
| | | ~~GW interface~~ | | | | | | | | | | | | | | | | | |
| | | ~~1st Encountered GW~~ | | | | | | | | | | | | | | | | | |
| G/BS-F4-1 | F4 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid F4 and the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | • | • | | | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| BS-G1-1 | G1 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | • | • | | | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| B-G1-1 | G1 | 0.5 - 1.0 | | • | • | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid G1. | – |
| | | 1.0 - 2.0 | • | • | • | • | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | • | • | Pb | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| G-G2-1 | G2 | 0.5 - 1.0 | | • | • | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid G2. | – |
| | | 1.0 - 2.0 | • | • | • | • | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | | • | • | • | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| B-G3-1 | G3 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid G3. | – |
| | | 1.0 - 2.0 | • | • | | | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| G-G4-1/P-12 | G4 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid G4. Following the collection of the utility corridor shallow soil samples, an additional soil sample was collected at the observed groundwater interface.Th groundwater interface sample coincided with the planned soil sample at 4 to 5 ft bgs. Grab groundwater was collected to assess groundwater conditions immediately downgradient of PIT-12. | – |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | | | | Ni | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| | | GW interface - 4 - 5 ft bgs | • | | • | • | | | | | | | | | | | | | |
| | | 1st Encountered GW - 5 - 6.5 ft bgs | | | | | | | • | • | • | | | | | | | | |
| G/BS-H1-1 | H1 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid H1 and the proposed bio swale. | – |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | • | • | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |

Table 1. Sampling and Analysis Summary, A8 and I Redevelopment, Oakland, California.

| | | | Analyses[2] | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | | | | | | Water | | | Soil Gas | | | | | | | |
| Location / Sample ID | Sample Grid | Sample Depths[1] | VOCs | SVOCs | TPH-g | TPH-d/-mo | CAM 17 Metals | PCBs | VOCs | TPH g/d/mo | CAM 17 Metals | VOCs | TPH C4 - C9 | TPH C10 - C15 | TO-3 | TO-15 | Fixed Gases | Purpose/Rationale | Deviations |
| UC-H1-1 | H1 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions in the proposed utility corridor. | – |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | • | • | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | • | • | • | • | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | • | | | | | | | | | | | | | | | | |
| P-01 | H1 | GW interface - 16 - 16.5 ft bgs | • | | • | • | | | | | | | | | | | | Assess groundwater conditions immediately downgradient of PIT-01. | – |
| | | 1st Encountered GW - 16 - 17.5 ft bgs | | | | | | | • | • | • | | | | | | | | |
| G-H2-1 | H2 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid H2. | G-H2-1-2.0 soil sample not analyzed for PCB 1260 due to lab disposing of sample without notice. |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | • | • | As, Pb | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| GW-8 | H2 | GW interface - 17 - 17.5 ft bgs | • | | • | • | | | | | | | | | | | | Assess benzene, PCE, and TCE impacts in groundwater proximate to PSG-25. See above for soil sampling depths and analyses. | – |
| | | 1st Encountered GW - 17 - 18 ft bgs | | | | | | | • | • | • | | | | | | | | |
| | | 2nd Encountered GW - 21 - 22.5 ft bgs | | | | | | | • | • | • | | | | | | | | |
| G-H3-1 | H3 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid H3. | – |
| | | 1.0 - 2.0 | • | • | | | • | • | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | • | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | • | • | Pb | • | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| P-06 | H3 | GW interface - 4.5 - 5 ft bgs | • | | • | • | | | | | | | | | | | | Assess groundwater conditions immediately downgradient of PIT-04, -05, and -06. | – |
| | | 1st Encountered GW - 5 - 6.5 ft bgs | | | | | | | • | • | • | | | | | | | | |
| GAUC-H4-1 | H4 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid H4 and the proposed utility corridor. | GAUC-H4-1 boring encountered refusal at 4.75 ft bgs. Soil samples collected up to 4.75 ft bgs. |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | • | • | | | | | | | | | | | | | |
| | | 4.0 - 4.75 | • | | • | • | | | | | | | | | | | | | |
| | | ~~7.0 - 8.0~~ | | | | | | | | | | | | | | | | | |
| | | ~~9.0 - 10.0~~ | | | | | | | | | | | | | | | | | |
| P-08 | H4 | GW interface - 4.5 - 5 ft bgs | • | | • | • | | | | | | | | | | | | Assess groundwater conditions immediately downgradient of PIT-08 and -09. | – |
| | | 1st Encountered GW - 5 - 10 ft bgs | | | | | | | • | • | • | | | | | | | | |
| BS-I1-1 | I1 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | • | • | • | As, Co, Ni | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | Ar | | | | | | | | | | | | |
| GAUC-I1-1 | I1 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid I1 and the extent of the proposed utility corridor. | – |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | • | • | As | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | • | • | • | • | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | • | | | | | | | | | | | | | | | | |
| BS-I2-1 | I2 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | • | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | • | • | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| GAUC-I2-1 | I2 | 0.5 - 1.0 | | • | | | • | • | | | | | | | | | | Establish baseline shallow soil conditions within grid I2 and the proposed utility corridor. | – |
| | | 1.0 - 2.0 | • | • | | | • | | | | | | | | | | | | |
| | | 2.0 - 3.0 | | • | • | • | • | | | | | | | | | | | | |
| | | 3.0 - 4.0 | • | • | • | • | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | • | | • | • | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | • | • | • | • | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | • | | | | | | | | | | | | | | | | |

Table 1. Sampling and Analysis Summary, AB and I Redevelopment, Oakland, California.

| Location / Sample ID | Sample Grid | Sample Depths[1] | Analyses[2] | | | | | | | | | | | | | | | Purpose/Rationale | Deviations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | | | | | | Water | | | Soil Gas | | | | | | | |
| | | | VOCs | SVOCs | TPH-g | TPH-d/-mo | CAM 17 Metals | PCBs | VOCs | TPH g/d/mo | CAM 17 Metals | VOCs | TPH C4 - C9 | TPH C10 - C15 | TO-3 | TO-15 | Fixed Gases | | |
| BS-I3-1 | I3 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within the extent of the proposed bio swale. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | | ● | ● | ● | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| GAUC-I3-1 | I3 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid I3 and the proposed utility corridor. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | ● | ● | ● | ● | | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | ● | ● | ● | ● | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | | | | | | | | | | | | | | | | |
| GAUC-I4-1 | I4 | 0.5 - 1.0 | | ● | | | ● | ● | | | | | | | | | | Establish baseline shallow soil conditions within grid I4 and the proposed utility corridor. | – |
| | | 1.0 - 2.0 | ● | ● | | | ● | ● | | | | | | | | | | | |
| | | 2.0 - 3.0 | | ● | ● | ● | ● | | | | | | | | | | | | |
| | | 3.0 - 4.0 | ● | ● | ● | ● | As, Pb | | | | | | | | | | | | |
| | | 4.0 - 5.0 | ● | | ● | ● | | | | | | | | | | | | | |
| | | 7.0 - 8.0 | ● | ● | ● | ● | | | | | | | | | | | | | |
| | | 9.0 - 10.0 | ● | | | | | | | | | | | | | | | | |

| Location / Sample ID | Sample Depths[1] | Analyses[2] | | | | | | | | | | | | | | | | Purpose/Rationale | Deviations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil | | | | | | Water | | | Soil Gas | | | | | | | | |
| | | VOCs | SVOCs | TPH-g | TPH-d/-mo | CAM 17 Metals | PCBs | VOCs | TPH g/d/mo | CAM 17 Metals | VOCs | TPH C4 - C9 | TPH C10 - C15 | TO-3 | TO-15 | Fixed Gases | | |
| **Passive Soil Gas Step Out Sample Locations** | | | | | | | | | | | | | | | | | | | |
| PSG-10A | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-10. | – |
| PSG-10B | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-10. | – |
| PSG-10C | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-10. | – |
| PSG-10D | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-10. | – |
| PSG-25A | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-25. | – |
| PSG-25B | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-25. | – |
| PSG-25C | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-25. | – |
| PSG-25D | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-25. | – |
| PSG-41A | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-41. | – |
| PSG-41B | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-41. | – |
| PSG-41C | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-41. | – |
| PSG-41D | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-41. | – |
| PSG-62A | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-62. | – |
| PSG-62B | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-62. | – |
| PSG-62C | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-62. | – |
| PSG-62D | 3 ft bgs or bottom of hardscape | | | | | | | | | | ● | ● | ● | | | | Further delineation of soil gas proximate to PSG-62. | – |
| **Soil Vapor Probe Locations** | | | | | | | | | | | | | | | | | | | |
| SVP-06-5I-8 | 5.0 | ● | | ● | ● | | | | | | | | | ● | ● | ● | Confirm the accuracy of the PSG-06 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | Soil sample collected at 5 ft bgs due to elevated PID reading. |
| | 8.0 | | | | | | | | | | | | | ● | ● | ● | | |
| SVP-10-5I-8 | 5.0 | ● | | ● | ● | | | | | | | | | ● | ● | ● | Confirm the accuracy of the PSG-10 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | Soil sample collected at 5 ft bgs due to elevated PID reading. |
| | 8.0 | | | | | | | | | | | | | ● | ● | ● | | |
| SVP-13-5I-8 | 5.0 | | | | | | | | | | | | | ● | ● | ● | Confirm the accuracy of the PSG-13 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | – |
| | 8.0 | | | | | | | | | | | | | ● | ● | ● | | |
| SVP-25-5I-8 | 5.0 | | | | | | | | | | | | | ● | ● | ● | Confirm the accuracy of the PSG-25 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | Soil sample collected at 5 ft bgs due to elevated PID reading. |
| | 8.0 | ● | | ● | ● | | | | | | | | | ● | ● | ● | | |
| SVP-32-5I-8 | 5.0 | | | | | | | | | | | | | | | | Confirm the accuracy of the PSG-32 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | SVP-32-5 not collected due to high downhole vacuum during purge. |
| | 8.0 | | | | | | | | | | | | | ● | ● | ● | | |

Table 1. Sampling and Analysis Summary, AB and I Redevelopment; Oakland, California.

| Location / Sample ID | Sample Depths[1] | Analyses[2] | | | | | | | | | | | | | | | Purpose/Rationale | Deviations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil | | | | | | Water | | | Soil Gas | | | | | | | |
| | | VOCs | SVOCs | TPH-g | TPH-d/-mo | CAM 17 Metals | PCBs | VOCs | TPH g/d/mo | CAM 17 Metals | VOCs | TPH C4 - C9 | TPH C10 - C15 | TO-3 | TO-15 | Fixed Gases | | |
| SVP-36-5/-8 | 5.0 | • | | • | • | | | | | | | | | • | • | • | Confirm the accuracy of the PSG-36 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | Soil samples collected at 5 and 8 ft bgs due to elevated PID reading. |
| | 8.0 | • | | • | • | | | | | | | | | • | • | • | | |
| SVP-41-5/-8 | 5.0 | | | | | | | | | | | | | • | • | • | Confirm the accuracy of the PSG-41 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | – |
| | 8.0 | | | | | | | | | | | | | • | • | • | | |
| SVP-45-5/-8 | 5.0 | • | | • | • | | | | | | | | | • | • | • | Confirm the accuracy of the PSG-45 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | SVP-45-8 not installed due to first encountered groundwater at 7 ft bgs. Soil sample collected at 5 ft bgs due to elevated PID reading. |
| | ~~8.0~~ | | | | | | | | | | | | | | | | | |
| SVP-52-5/-8 | 5.0 | | | | | | | | | | | | | • | • | • | Confirm the accuracy of the PSG-52 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | – |
| | 8.0 | | | | | | | | | | | | | • | • | • | | |
| SVP-53-5/-8 | 5.0 | • | | • | • | | | | | | | | | • | • | • | Confirm the accuracy of the PSG-53 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | Soil sample collected at 5 ft bgs due to elevated PID reading. |
| | 8.0 | | | | | | | | | | | | | • | • | • | | |
| SVP-57-5/-8 | 5.0 | • | | • | • | | | | | | | | | • | • | • | Confirm the accuracy of the PSG-57 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | SVP-57-8 not installed due to first encountered groundwater at 7 ft bgs. Soil sample collected at 5 ft bgs due to elevated PID reading. |
| | ~~8.0~~ | | | | | | | | | | | | | | | | | |
| SVP-61-4/-8 | 4.0 | • | | • | • | | | | | | | | | | | | Confirm the accuracy of the PSG-61 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | SVP-61-5 installed at 4 ft bgs due to first encountered groundwater at 5 ft bgs. SVP-61-5 renamed to SVP-61-4. SVP-61-8 not installed due to first encountered groundwater at 5 ft bgs. Soil vapor sample not collected at SVP-61-4 due to water encountered in sample line while purging. Soil sample collected at 4 ft bgs due to elevated PID reading. |
| | ~~8.0~~ | | | | | | | | | | | | | | | | | |
| SVP-62-4/-8 | 4.0 | • | | • | • | | | | | | | | | • | • | • | Confirm the accuracy of the PSG-62 results, collect fixed gas data to assess bio-attenuation and assess the vertical extent of chlorinated VOC impacts in soil gas. | SVP-62-5 installed at 4 ft bgs due to first encountered groundwater at 5 ft bgs. SVP-62-5 renamed to SVP-62-4. SVP-62-8 not installed due to first encountered groundwater at 5 ft bgs. Soil sample collected at 4 ft bgs due to elevated PID reading. |
| | ~~8.0~~ | | | | | | | | | | | | | | | | | |
| **IDW Samples** | | | | | | | | | | | | | | | | | | |
| IDW-SOIL | – | • | | • | • | • | | | | | | | | | | | IDW characterization. | – |
| IDW-WATER | – | | | | | | | • | • | • | | | | | | | | |

Notes:

"•" indicates discrete sample collected from this location and depth and run for the given analysis.

"–" indicates not applicable.

"As" indicates arsenic analysis.

"Co" indicated cobalt analysis.

"Cu" indicates copper analysis.

"ft bgs" indicates feet below ground surface.

"GW" indicates groundwater.

"IDW" indicates investigation-derived waste.

"Pb" indicated lead analysis.

"PID" indicates photoionization detector.

"Ni" indicates nickel analysis.

"~~Strikethrough~~" indicates sample was not collected.

"PCE" indicates tetrachloroethylene.

"TCE" indicates trichloroethylene.

(1) "Sample Depths" indicates approximate feet below current ground surface (ft bgs) of top of sample unless otherwise specified.

(2) "Analyses" indicates laboratory analytical methods as follows:

"TO-3" indicates total petroleum hydrocarbons as gasoline by USEPA Method TO-3.

"TO-15" indicates volatile organic compounds by USEPA Method TO-15.

"Fixed Gases" for soil gas analyses indicates helium, carbon monoxide, carbon dioxide, methane, nitrogen and oxygen by ASTM Method D-1946.

"VOCs" for soil and groundwater analyses indicates Volatile Organic Compounds by USEPA Method 8260B.

"SVOCs" for soil analysis indicates Semi-Volatile Organic Compounds by USEPA Method 8270C.

"CAM 17 Metals" for soil and groundwater analyses indicates the Title 22/CAM 17 list of Metals by USEPA Method 6020. Water samples will be filtered (0.45 micron) and unfiltered.

"TPH g/d/mo" for soil and groundwater analyses indicates Total Petroleum Hydrocarbons as gasoline, diesel and motor oil by USEPA Method 8260B and/or 8015.

"PCBs" for soil analyses indicates Polychlorinated biphenyls by USEPA Method 8082A.

"VOCs, TPH C4-C9, and TPH C10-15" for soil gas analyses indicates chlorinated volatile organic compounds and volatile hydrocarbons by USEPA Method 8260C.

*All borings were continuously logged by a Roux geologist or engineer and screened for VOCs with a photoionization detector (PID). In addition to the scope described above, soil samples were collected at depths where elevated PID readings were observed. Soil samples were not collected below the groundwater interface. Multi-depth grab groundwater samples were collected from co-located borings noted as "1st Encountered GW" and "2nd Encountered GW".

**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | BS-B1-1<br>1.0<br>5/20/2024 | BS-B1-1<br>2.0<br>5/20/2024 | BS-B1-1<br>3.0<br>5/20/2024 | BS-C1-1<br>1.0<br>5/21/2024 | BS-C1-1<br>2.0<br>5/21/2024 | BS-C1-1<br>3.0<br>5/21/2024 | BS-D1-1<br>1.0<br>5/24/2024 | BS-D1-1<br>2.0<br>5/24/2024 | BS-D1-1<br>3.0<br>5/24/2024 | BS-E1-1<br>1.0<br>5/22/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | <0.658 J- | **2.61** | <0.702 J- | <0.588 | <0.582 | <0.713 | <0.602 | **2.32** | **3.74** | <0.662 |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **3.16** | **6.2** | **3.21** | **4.02** | **5.66** | **5.77** | **3.25** | **3.87** | **4.7** | **5.71** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **66.1** | **160** | **185** | **139 J-** | **90.3 J-** | **96.9 J-** | **140** | **233** | **131** | **113** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | <0.0381 | **0.467** | **0.491** | <0.034 | <0.0337 | **0.266** | <0.0348 | **0.244** | <0.0347 | **0.312** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.057 | <0.055 | <0.0608 | <0.0509 | <0.0504 | <0.0617 | **0.681** | <0.0518 | <0.0518 | <0.0573 |
| Chromium | NS | NS | NS | **13.9** | **32.2** | **24.8** | **21.7** | **27.1** | **28.3** | **29.3** | **24.2** | **16.7** | **39** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **7.6** | **12.4** | **13.7** | **7.77** | **11.7** | **10.9** | **12.3** | **10** | **11.7** | **19.4** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **44.6 J-** | **34.8 J5** | **18.6 J-** | **20.6** | **27.4** | **27.5** | **64.6** | **121** | **34.9** | **24.2** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **40.8 J** | **59.1** | **16.2 J** | **42.3** | **67.4** | **19.9** | **200** | **178** | **33.8** | **32.3** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | <0.132 | <0.127 | <0.141 | **0.565** | <0.117 | <0.143 | <0.121 | <0.12 | **0.732** | <0.133 |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **22.6** | **41.2** | **44.9** | **26.1 J-** | **41.6 J-** | **46.3 J-** | **38.5** | **23.1** | **22.1** | **117** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.925 | <0.891 | <0.986 | <0.825 | <0.818 | <1 | <0.845 | <0.84 | <0.841 | <0.929 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.154 | <0.148 | <0.164 | <0.137 | <0.136 | <0.166 | <0.14 | <0.14 | <0.14 | **3.31** |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.477 | <0.46 | <0.508 | <0.426 | <0.422 | <0.516 | <0.436 | <0.433 | <0.434 | <0.479 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **28.4** | **59.6** | **35.6** | **30.5** | **38.7** | **34.1** | **30.7** | **29.8** | **42.4** | **32.7** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **68.4** | **98.9** | **40.9** | **66.7** | **92** | **50** | **176** | **173** | **83.4** | **76.8** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.118** | **0.16** | **0.0948** | **0.133** | **0.199** | <0.0236 | **0.101** | **0.136** | **0.0771** | **0.0591** |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs or accepted background concentrations.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

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Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

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J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

V = The sample concentration is too high to evaluate accurate spike recoveries.

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

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**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB Direct | SFBR | BS-E1-1 | BS-E1-1 | BS-E1-1 | BS-E1-1 | BS-F1-1 | BS-F1-1 | BS-F1-1 | BS-G1-1 | BS-G1-1 | BS-G1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Contact Commercial / | Background | 2.0 | 3.0 | 4.0 | 5.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 |
| Sample Date | Construction Worker ESLs[1] | Industrial ESLs[1] | Concentration[2] | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 |
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | <0.614 J- | <0.738 J- | **8.35** | — | **8.37 J6** | **5.57** | **5.64** | **3.06** | **7** | **3.54** |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **2.77** | <0.703 | **4.63** | — | **7.19** | **6.61** | **9.68** | **4.29** | **2.97** | <0.554 |
| Barium | 3.02E+03 | 2.17E+05 | NS | **63.7** | **52.7** | **85.6** | — | **163** | **80.3** | **246** | **39** | **37.8** | **70.5** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | <0.0356 | <0.0427 | **0.319** | — | <0.0345 | <0.0344 | **0.413** | <0.0368 | <0.036 | <0.0337 |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | **2.14** | **6.27** | **6.22** | — | <0.0515 | <0.0515 | <0.0544 | <0.055 | <0.0538 | <0.0503 |
| Chromium | NS | NS | NS | **23.3** | **20.8** | **46.4** | — | **37.2** | **23.1** | **64** | **112** | **176** | **269** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **4.16** | **1.47 B** | **4.59** | — | **16.6** | **8.34** | **13.7** | **7.55** | **18.5** | **6.67** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **25 J-** | **45.6 J-** | **65.3** | — | **32.1** | **47.8** | **40.7** | **88.4** | **183** | **104** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **490 J** | **1,470 J** | **1,430** | NA* | **99.3** | **51.6** | **66.7** | **37** | **34.2** | **23.2** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | **1.69** | **3.93** | **5.33** | — | **0.663** | **0.706** | <0.126 | **14.4** | **113** | **17.3** |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **22.2** | **12.6** | **33** | — | **35.9** | **26.4** | **55.2** | **76.9** | **320** | **71.4** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.863 | <1.04 | <0.897 | — | <0.836 | <0.835 | <0.882 | <0.892 | <0.873 | <0.817 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.143 | <0.172 | <0.149 | — | <0.139 | <0.139 | <0.147 | **2.23** | <0.145 | <0.136 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.445 | <0.534 | <0.463 | — | <0.431 | <0.431 | <0.455 | <0.46 | <0.45 | <0.421 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **14.1** | **4.46** | **25.8** | — | **70.6** | **35.3** | **60.1** | **82.3** | **107** | **129** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **215** | **596** | **586** | — | **117** | **75** | **116** | **67.3** | **12.9** | **12.9** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.0699** | <0.0244 | **0.127** | — | **0.155** | **0.0657** | **0.0904** | <0.021 | <0.0206 | <0.0192 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs or accepted background concentrations.

Boxed concentrations exceed the Commercial/Industrial ESLs.

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**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | BS-I1-1<br>1.0<br>5/30/2024 | BS-I1-1<br>2.0<br>5/30/2024 | BS-I1-1<br>3.0<br>5/30/2024 | BS-I1-1<br>4.0<br>5/30/2024 | BS-I1-1<br>5.0<br>5/30/2024 | BS-I2-1<br>1.0<br>5/30/2024 | BS-I2-1<br>2.0<br>5/30/2024 | BS-I2-1<br>3.0<br>5/30/2024 | BS-I3-1<br>1.0<br>5/30/2024 | BS-I3-1<br>2.0<br>5/30/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | **16.9 J-** | **9.36 J-** | **8.66 J+** | — | — | **21.2 J-** | **9.09 J-** | **7.98 J-** | **8.6 J+** | **6.21 J+** |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **6.8 J** | **31.6 J** | **59.5** | **13.5** | **6.35** | <0.585 | **2.28 J** | <0.642 | <0.596 | <0.599 |
| Barium | 3.02E+03 | 2.17E+05 | NS | **118 J** | **905 J** | **1,650** | — | — | **316 J** | **128 J** | **164 J** | **315** | **193** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.727** | **0.326** | **0.291** | — | — | **1.11** | <0.035 | **0.412** | **0.258** | <0.0364 |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.0497 | **2.09** | **6.09** | — | — | **3.04** | **1.43** | <0.0584 | **1.13** | **1.2** |
| Chromium | NS | NS | NS | **22.3** | **29.2** | **52** | — | — | **88** | **22.1** | **47.4** | **52.2** | **84** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **5.26** | **7.69** | **43.3** | **12.4** | — | **4.36** | **9.76** | **10.6** | **15.7** | **26.3** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **23.7 J-** | **71.8 J-** | **82.2** | — | — | **79.7 J-** | **36.1 J-** | **21.9 J-** | **54.1** | **101** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **13.2 J-** | **99.9 J-** | **160 J** | — | — | **711 J-** | **106 J-** | **10.1 J-** | **217 J** | **207 J** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | <0.115 | **1.04** | **1.48** | — | — | **9.59** | **1.26** | <0.135 | **1.26** | <0.126 |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **22.4** | **32.9** | **104** | **56.5** | — | **20.2** | **27.5** | **51.8** | **64.7** | **61.1** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | **2.7** | **3.37** | **4.43** | — | — | **5.1** | <0.848 | <0.948 | <0.879 | <0.883 |
| Silver | 1.77E+03 | 5.84E+03 | NS | **1.06** | <0.136 | <0.15 | — | — | **3.75** | <0.141 | <0.158 | <0.146 | <0.147 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.416 | <0.423 | <0.464 | — | — | <0.445 | <0.437 | <0.489 | <0.453 | <0.455 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **100** | **50.8** | **59.2** | — | — | **32.4** | **33.9** | **44.8** | **52.3** | **47.1** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **41.1 J-** | **243 J-** | **283 J+** | — | — | **455 J-** | **265 J-** | **53.4 J-** | **373 J+** | **313 J+** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.0515** | <0.0193 | <0.0212 | — | — | <0.0203 | **0.193** | **0.0607** | **0.232** | **0.446** |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs or accepted background concentrations.

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**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | BS-I3-1<br>3.0<br>5/30/2024 | G/BS-A2-1<br>1.0<br>5/20/2024 | G/BS-A2-1<br>2.0<br>5/20/2024 | G/BS-A2-1<br>3.0<br>5/20/2024 | G/BS-A3-1<br>1.0<br>5/20/2024 | G/BS-A3-1<br>2.0<br>5/20/2024 | G/BS-A3-1<br>3.0<br>5/20/2024 | G/BS-D4-1<br>1.0<br>5/28/2024 | G/BS-D4-1<br>2.0<br>5/28/2024 | G/BS-D4-1<br>3.0<br>5/28/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | **6.81 J+** | <0.607 J- | <0.61 J- | <0.721 J- | **12.7 J-** | <0.622 J- | <0.645 J- | **10.6** | **4.22** | **9.32** |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **4.88** | **3.92** | **5.06** | **4.59** | **19** | **7.17** | **2.61** | **7.76** | **13.3** | **38.7** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **214** | **337** | **217** | **122** | **799** | **121** | **185** | **373** | **271** | **655** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.413** | **0.288** | **0.432** | **0.267** | <0.174 | <0.036 | **0.342** | <0.0334 | **0.289** | **0.769** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.0546 | <0.0525 | **3.14** | <0.0624 | **47.1** | **14.7** | <0.0558 | **1.73** | **1.06** | **2.43** |
| Chromium | NS | NS | NS | **79** | **27.3** | **36.4** | **30.5** | **61.1** | **17.2** | **80.8** | **147** | **81.8** | **115** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **11.2** | **10.3** | **9.97** | **9.8** | **20** | **8.3** | **12.9** | **8.99** | **6.12** | **9.29** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **35.8** | **59.4 J-** | **246 J-** | **68.2 J-** | **1,030 J+** | **60.6 J+** | **36.8 J+** | **266** | **66.9** | **307** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **109 J** | **131 J** | **625 J** | **46.2 J** | **1,220 J** | **67.1 J** | **49.8 J** | **239** | **167** | **400** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | **0.892** | <0.122 | **1.36** | <0.144 | **8.05** | <0.125 | <0.129 | **14.9** | **2.52** | **4.96** |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **57.6** | **31.3** | **55** | **45** | **103 J-** | **22.1 J-** | **52.1 J-** | **73.7** | **30.5** | **40.7** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.886 | <0.852 | <0.856 | <1.01 | <4.2 | <0.874 | <0.906 | <0.809 | <0.851 | <0.852 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.147 | <0.142 | <0.142 | <0.168 | <0.697 | <0.145 | <0.151 | <0.135 | <0.141 | <0.142 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.457 | <0.439 | <0.441 | <0.522 | <2.16 | <0.451 | <0.467 | <0.417 | <0.439 | <0.439 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **47.3** | **33.7** | **29.5** | **22.9** | **61.9** | **72.1** | **71.8** | **46** | **32.8** | **57.4** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **210 J+** | **160** | **414** | **70.5** | **3,250** | **212** | **51.7** | **708** | **221** | **601** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.138** | **0.239** | **0.383** | **0.151** | **0.473** | **0.16** | **0.0997** | **0.165 J-** | **0.607 J3J5J6-** | <0.0201 J- |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | **4.11** | **26.6** | **11.6** | <0.675 | <0.667 | <0.584 | <0.722 | <0.627 | **5.18 J6-** | <0.596 |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **5.04 B** | **5.43** | **5.76** | **3.66** | **3.66** | <0.556 | **3.72** | **44.9** | **1,930 J3O1V** | **3,460** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **138** | **492** | **170** | **157** | **237** | **105** | **323** | **130 J-** | **842 J3O1V** | **723 J-** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | <0.0397 | **0.645** | **0.343** | <0.0391 | **0.609** | <0.0338 | **0.786** | **0.287** | <0.0382 | <0.0345 |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | **0.8** | **25.7** | **9.05** | <0.0584 | <0.0578 | <0.0506 | <0.0625 | <0.0543 | **1.71** | **0.614** |
| Chromium | NS | NS | NS | **46.7** | **50.4** | **39.1** | **52.6** | **42.9** | **12.8** | **44.6** | **239** | **835 J3V** | **313** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **7.89** | **7.12** | **7.71** | **10.9** | **14.6** | **5.63** | **14.5** | **8.97** | **15.4 J6O1** | **3.46** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **212** | **202** | **165** | **20.3** | **29** | **30.8** | **36.7** | **29.8** | **80.7** | **50.4** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **161** | **6,190** | **2,600** | **24.3** | **37.8** | **68.6** | **33.1** | **61.6** | **138** | **42.8** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | <0.137 | **5.64** | **1.49** | <0.135 | <0.134 | <0.117 | <0.145 | <0.126 | **1.09** | <0.12 |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **82.7** | **40.8** | **29.9** | **53.9** | **50** | **18.3** | **62** | **39.5 J-** | **166 J3J6-** | **42.9 J-** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.963 | <0.834 | <0.904 | <0.948 | <0.937 | <0.821 | <1.01 | <0.881 | <0.927 | <0.838 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.16 | **1.99 B** | **1.61 B** | <0.158 | <0.156 | <0.136 | <0.168 | <0.146 | <0.154 | <0.139 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.497 | <0.43 | <2.33 | <0.489 | <0.483 | <0.423 | <0.523 | <0.454 | <0.478 | <0.432 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **35.7** | **14.6** | **45.4** | **44.8** | **48.9** | **20.7** | **50.7** | **22.1** | **47.9 J6** | **54** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **166** | **5,690** | **2,720** | **76.6** | **68.3** | **86.7** | **66** | **87.7** | **218 J6-** | **17.6** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.0637** | **0.105** | **0.63** | **0.0574** | <0.0221 | **0.0486** | **0.0546** | **0.0757** | **0.074** | <0.0197 |

**Notes:**

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

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**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | G/UC-B1-1<br>4.0<br>5/21/2024 | G/UC-B1-1<br>5.0<br>5/21/2024 | G/UC-B4-1<br>1.0<br>5/23/2024 | G/UC-B4-1<br>2.0<br>5/23/2024 | G/UC-B4-1<br>3.0<br>5/23/2024 | G/UC-C1-1<br>1.0<br>5/21/2024 | G/UC-C1-1<br>2.0<br>5/21/2024 | G/UC-C1-1<br>3.0<br>5/21/2024 | G/UC-C4-1<br>1.0<br>5/22/2024 | G/UC-C4-1<br>2.0<br>5/22/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | — | — | **4.49** | **11.2** | <0.581 | <0.579 J- | <0.589 J- | <0.605 J- | <0.623 J- | <0.629 J- |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **311** | NA* | **5.67** | **12.2** | <0.553 | **5.05** | **6.89** | **3.76** | **2.95** | **2.67** |
| Barium | 3.02E+03 | 2.17E+05 | NS | — | — | **88.8** | **271** | **56** | **138** | **111** | **67.3** | **128** | **143** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | — | — | **0.299** | **0.35** | <0.0336 | <0.0335 | **0.486** | **0.294** | **0.598** | **0.764** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | — | — | **9.4** | <0.0521 | <0.0503 | <0.0501 | <0.051 | <0.0524 | <0.054 | **0.98** |
| Chromium | NS | NS | NS | — | — | **35.2** | **34.9** | **11.1** | **24.3** | **26.3** | **17.7** | **66.3** | **81.7** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | — | — | **2.76** | **22.6** | **7.02** | **5.54** | **9.18** | **5.91** | **2.56** | **1.46** |
| Copper | 1.42E+04 | 4.67E+04 | NS | — | — | **73.4** | **131** | **3.86** | **17.5** | **26.2** | **16** | **51.2 J-** | **36.4 J-** |
| Lead | 1.60E+02 | 3.20E+02 | NS | — | — | **2,240** | **24.3** | **6.68** | **24.9** | **22.6** | **12.7** | **124 J** | **269 J** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | — | — | **5.05** | <0.121 | <0.116 | **0.667** | <0.118 | <0.121 | **5.18** | **2.68** |
| Nickel | 8.63E+01 | 1.11E+04 | NS | — | — | **19.1** | **41.3** | **10.4** | **30.7 J-** | **41.7 J-** | **23.4 J-** | **23.3** | **11.9** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | — | — | <0.931 | **2.51** | <0.816 | <0.813 | <0.827 | <0.849 | <0.876 | <0.884 |
| Silver | 1.77E+03 | 5.84E+03 | NS | — | — | <0.155 | <0.141 | <0.136 | <0.135 | <0.137 | <0.141 | **1.51** | **1.2** |
| Thallium | 3.54E+00 | 1.17E+01 | NS | — | — | <0.48 | <0.436 | <0.421 | <0.419 | <0.426 | <0.438 | <0.452 | <0.456 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | — | — | **32.4** | **72.3** | **23.9** | **25.1** | **26.3** | **20.2** | **12.6** | **12.5** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | — | — | **967** | **93.8** | **18.1** | **49.6 J-** | **53.9 J-** | **36.1 J-** | **118** | **183** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | — | — | **0.0947** | **2.33** | <0.0192 | **0.135** | <0.0195 | <0.02 | <0.0206 | <0.0208 |

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**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | G/UC-C4-1 3.0 5/22/2024 | G/UC-C4-1 4.0 5/22/2024 | G/UC-C4-1 5.0 5/22/2024 | G/UC-H4-1 1.0 5/30/2024 | G/UC-H4-1 2.0 5/30/2024 | G/UC-H4-1 3.0 5/30/2024 | G/UC-I1-1 1.0 5/30/2024 | G/UC-I1-1 2.0 5/30/2024 | G/UC-I1-1 3.0 5/30/2024 | G/UC-I1-1 4.0 5/30/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.98E+01 | 1.64E+02 | NS | <0.644 J6- | — | — | **23.6** | **9.28** | **10** | **10 J-** | **8.61 J6-** | **7.36 J-** | — |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **3.17** | — | — | <0.552 | **4.61** | **5.55** | **206 J** | **415 J3J6J6** | **170 J** | **5.29** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **70.4 O1** | — | — | **62.9** | **168** | **87** | **1,650 J** | **2,040 J3O1V** | **1,230 J** | — |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.379** | — | — | <0.0336 | **0.357** | <0.0357 | **0.333** | **0.363** | **0.275** | — |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | **1.24** | — | — | <0.0502 | **2.41** | <0.0533 | **5.9** | **6.35** | **3.6** | — |
| Chromium | NS | NS | NS | **38.2 O1** | — | — | **6.78** | **58.4** | **38.8** | **46.1** | **53.6 O1** | **47** | — |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **2.78 J6** | — | — | **11.6** | **15.9** | **19** | **12.5** | **13.7** | **11.7** | — |
| Copper | 1.42E+04 | 4.67E+04 | NS | **52.9 J6O1-** | — | — | **44.2** | **64.1** | **63.2** | **86.3 J-** | **164 J3J5-** | **111 J-** | — |
| Lead | 1.60E+02 | 3.20E+02 | NS | **1,030 J3O1V** | **5,290** | NA* | **23.2** | **123** | **25** | **213 J-** | **187 J3J6J6-** | **146 J-** | — |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | **3.96 J6** | — | — | **1** | <0.125 | <0.123 | **3.5** | **1.75** | **1.37** | — |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **17.1 J6O1** | — | — | **7.96** | **63.7** | **31.1** | **47.6** | **57.8** | **60** | — |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.905 | — | — | <0.815 | <0.873 | <0.865 | **3.52** | **4.4** | **5.21** | — |
| Silver | 1.77E+03 | 5.84E+03 | NS | **1.18** | — | — | <0.135 | <0.145 | <0.144 | <0.161 | <0.149 | <0.169 | — |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.467 | — | — | <0.42 | <0.45 | <0.446 | <0.499 | <0.463 | <0.523 | — |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **12** | — | — | **58.4** | **50.4** | **53** | **47.1** | **47.9** | **39.1** | — |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **326 J6O1** | — | — | **77.1** | **156** | **66.9** | **171 J-** | **249 J3J6J6O-** | **127 J-** | — |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | <0.0213 | — | — | **0.0525** | **0.211** | **0.36** | **0.153** | **0.196** | **0.182** | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | **14.6 J+** | **7.92 J+** | **6.98 J+** | **7.96 J+** | **3.05 J+** | **6.89 J-** | **6.34 J-** | **5.94 J-** | **23.4 J-** | — |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **3.23** | <0.576 | <0.684 | **5.14** | <0.656 | <0.619 | <0.598 | <0.569 | **38.3 J** | **6.66** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **288** | **103** | **330** | **161** | **25.4** | **173 J** | **85.8 J** | **55.1 J** | **138 J** | — |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.514** | <0.035 | **0.837** | <0.0351 | <0.0399 | **0.379** | <0.0364 | <0.0346 | <0.189 | — |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | **3.44** | <0.0524 | <0.0622 | **1.12** | <0.0596 | <0.0563 | **3.15** | **0.686** | <0.282 | — |
| Chromium | NS | NS | NS | **66.8** | **17.9** | **83.3** | **26.8** | **75.2** | **47.8** | **73.7** | **34.7** | **117** | — |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **8.53** | **7.31** | **13.8** | **6.54** | **24.5** | **10** | **20** | **11.2** | **16.7** | — |
| Copper | 1.42E+04 | 4.67E+04 | NS | **90.7** | **30.6** | **37.6** | **56.8** | **127** | **22 J-** | **141 J-** | **80.1 J-** | **369 J-** | — |
| Lead | 1.60E+02 | 3.20E+02 | NS | **709 J** | **60.6 J** | **13.9 J** | **244 J** | **20.4 J** | **16.4 J-** | **779 J-** | **172 J-** | **437 J-** | **26.6** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | **4.4** | **1.61** | <0.144 | **1.13** | <0.138 | <0.13 | **5.08** | **1.44** | **7.73** | — |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **42.6** | **29** | **71.9** | **25.9** | **64.5** | **50.6** | **46** | **28.3** | **84.6** | — |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.87 | <0.849 | <1.01 | <0.851 | <0.968 | <0.914 | <0.882 | <0.839 | <4.57 | — |
| Silver | 1.77E+03 | 5.84E+03 | NS | **1.42 B** | <0.141 | <0.168 | <0.141 | <0.161 | <0.152 | **1.61** | <0.14 | <0.759 | — |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.449 | <0.438 | <0.52 | <0.439 | <0.499 | <0.471 | <0.455 | <0.433 | <2.36 | — |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **46.6** | **37.2** | **78** | **27.9** | **36.7** | **41.7** | **26.8** | **26** | **96.3** | — |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **679 J+** | **123 J+** | **77.8 J+** | **250 J+** | **53.9 J+** | **57.5 J-** | **629 J-** | **168 J-** | **459 J-** | — |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | <0.0205 | **0.139** | **0.0592** | **0.137** | **0.151** | **0.111** | **0.44** | **0.189** | <0.0215 | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | <0.607 J- | <0.607 J- | <0.595 J- | **5.88** | **7.24** | **7.6** | — | — | <0.656 | <0.616 |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **2.79** | **2.45** | **2.79** | **6.29** | **6.63** | **9.54** | — | — | **4.88** | **4.16** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **110** | **270** | **152** | **50.9 J-** | **77.9 J-** | **45.2 J-** | — | — | **154 J-** | **140 J6O1-** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.275** | **0.264** | <0.0344 | <0.0339 | <0.0343 | <0.0342 | — | — | **0.339** | **0.382** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.0526 | <0.0526 | **0.718** | **5.02** | **4.51** | **5.21** | — | — | <0.0568 | <0.0533 |
| Chromium | NS | NS | NS | **42.5** | **17.7** | **22** | **19.9** | **26.2** | **33.6** | — | — | **36.1** | **58.2 O1** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **14.5** | **12.7** | **11.3** | **5.67** | **6.12** | **15.5** | — | — | **9.34** | **16.9 O1** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **54.5 J-** | **36.3 J-** | **22.6 J-** | **13,600** | **16,300** | **28,200** | **3,730** | — | **23.5** | **23.5 O1** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **117 J** | **47.5 J** | **67.4 J** | **826** | **1,010** | **1,830** | **406** | NA* | **47.3** | **10.7** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | **1.72** | <0.122 | <0.119 | **4.36** | **5.34** | **6.16** | — | — | **0.746** | <0.123 |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **21** | **27.3** | **27.9** | **98.1 J-** | **124 J-** | **174 J-** | **66** | — | **59.1 J-** | **114 J6O1-** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.853 | <0.852 | <0.835 | <0.822 | <0.832 | <0.831 | — | — | <0.922 | <0.865 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.142 | <0.142 | <0.139 | <0.137 | <0.138 | <0.138 | — | — | <0.153 | <0.144 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.44 | <0.44 | <0.431 | <2.12 | <2.15 | <4.28 | — | — | <0.475 | <0.446 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **51.1** | **23.1** | **27.4** | **17** | **22.2** | **39.5** | — | — | **26.7** | **34.1 O1** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **88.6** | **122** | **135** | **9,370** | **4,250** | **28,600** | — | — | **127** | **40.6** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.305** | **1.09** | **0.143** | **0.108** | **0.182** | **0.22** | — | — | **0.133** | **0.163** |

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure, January 2019.

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**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | G-B3-1<br>3.0<br>5/21/2024 | G-B3-1<br>4.0<br>5/21/2024 | G-B3-1<br>5.0<br>5/21/2024 | G-C2-1<br>1.0<br>5/21/2024 | G-C2-1<br>2.0<br>5/21/2024 | G-C2-1<br>3.0<br>5/21/2024 | G-C3-1<br>1.0<br>5/21/2024 | G-C3-1<br>2.0<br>5/21/2024 | G-C3-1<br>3.0<br>5/21/2024 | G-D1-1<br>1.0<br>5/24/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.98E+01 | 1.64E+02 | NS | <0.685 | — | — | <0.594 J- | <0.587 J- | **2.15 J-** | <0.587 J- | <0.653 J- | <0.579 J- | **2.62** |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **2.88** | — | — | **3.6** | **3.22** | **4.48** | **2.98** | <0.622 | **6.22** | **4.66** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **106 J-** | — | — | **91.3** | **104** | **137** | **48.2** | **44.5** | **179** | **105** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.265** | — | — | **0.25** | <0.034 | <0.0334 | <0.034 | <0.0378 | <0.0335 | <0.0344 |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.0593 | — | — | <0.0514 | <0.0508 | <0.05 | <0.0508 | <0.0565 | <0.0501 | <0.0514 |
| Chromium | NS | NS | NS | **44.5** | — | — | **16.2** | **15.4** | **19.8** | **9.41** | **2.3 B** | **11.6** | **21.6** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **9.93** | — | — | **7.65** | **6.67** | **6.52** | **5.94** | **5.02** | **7.11** | **7.88** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **14.3** | — | — | **20.8** | **14.8** | **22.2** | **11.1** | <0.48 | **141** | **36.4** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **6.8** | — | — | **29** | **16.6** | **23.3** | **19.3** | **3.35** | **73.5** | **110** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | <0.137 | — | — | <0.119 | <0.118 | **0.826** | <0.118 | <0.131 | <0.116 | <0.119 |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **87.7 J-** | **110** | NA* | **25.7 J-** | **27.1 J-** | **30.9 J-** | **12.4 J-** | <0.158 J- | **18.8 J-** | **28.2** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.961 | — | — | <0.834 | <0.825 | <0.81 | <0.825 | <0.917 | <0.813 | <0.834 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.16 | — | — | <0.139 | <0.137 | <0.135 | <0.137 | <0.152 | <0.135 | <0.139 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.496 | — | — | <0.43 | <0.425 | <0.418 | <0.425 | <0.473 | <0.419 | <0.43 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **24.4** | — | — | **31** | **20.1** | **27.6** | **22** | **8.52** | **37.9** | **24.6** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **25.9** | — | — | **54.2 J-** | **44.3 J-** | **75.9 J-** | **52.1 J-** | **16.4 BJ-** | **123 J-** | **90** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.123** | — | — | **0.109** | **0.0708** | **0.101** | **0.132** | <0.0216 | **0.133** | **0.126** |

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**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | G-D1-1<br>2.0<br>5/24/2024 | G-D1-1<br>3.0<br>5/24/2024 | G-D2-1<br>1.0<br>5/24/2024 | G-D2-1<br>2.0<br>5/24/2024 | G-D2-1<br>3.0<br>5/24/2024 | G-D3-1<br>1.0<br>5/24/2024 | G-D3-1<br>2.0<br>5/24/2024 | G-D3-1<br>3.0<br>5/24/2024 | G-D3-1<br>4.0<br>5/24/2024 | G-E1-1<br>1.0<br>5/22/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | <0.604 | **3.15** | **2.4** | <0.651 | **2.42** | **4.16** | <0.662 | **3.48** | — | <0.621 J- |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **5.43** | **8.83** | **6.61** | **9.38** | **5.69** | **5.57** | **13.9** | **19.6** | NA* | <0.591 |
| Barium | 3.02E+03 | 2.17E+05 | NS | **159** | **183** | **133** | **205** | **129** | **165** | **337** | **659** | — | **62.2** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.264** | **0.318** | **0.233** | **0.32** | **0.557** | <0.0372 | **0.432** | **0.464** | — | <0.0359 |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.0523 | **0.617** | <0.0545 | **0.697** | <0.0519 | <0.0556 | **0.708** | **2.08** | — | <0.0537 |
| Chromium | NS | NS | NS | **26.8** | **31.3** | **17.8** | **28** | **31.4** | **31.5** | **26.2** | **30.1** | — | **9.5** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **9.95** | **10.8** | **5.73** | **8.9** | **9.47** | **13.6** | **9.38** | **12.7** | — | **4.87** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **53.6** | **64.7** | **35.6** | **114** | **35.9** | **32.9** | **32.3** | **67.6** | — | **24.4 J-** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **141** | **103** | **85.6** | **164** | **37.4** | **7.6** | **36.2** | **52.6** | — | **120 J** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | <0.121 | **0.931** | **1.55** | **1.54** | **0.557** | <0.129 | <0.133 | <0.134 | — | <0.124 |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **31.1** | **44.1** | **20.1** | **37.4** | **46** | **39.4** | **38.3** | **45.5** | — | **13.7** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.849 | <0.914 | <0.884 | <0.915 | <0.842 | <0.902 | <0.93 | <0.939 | — | <0.872 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.141 | <0.152 | <0.147 | <0.152 | <0.14 | **3.02** | <0.155 | <0.156 | — | <0.145 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.438 | <0.472 | <0.456 | <0.472 | <0.434 | <0.465 | <0.479 | <0.484 | — | <0.45 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **33.1** | **40** | **21.3** | **35.8** | **27.4** | **53.5** | **34.1** | **44.1** | — | **14.8** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **141** | **156** | **113** | **186** | **78.1** | **41** | **77.8** | **91.6** | — | **53.8** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.0899** | **0.173** | **0.151** | **0.197** | **0.0559** | <0.0212 | **0.083** | **0.0835** | — | **0.092** |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | <0.622 J- | <0.645 J- | **3.69** | **2.66** | **2.92** | **8.78** | **3.41** | **7.44** | **6.99** | **4.6** |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **13.4** | **3.78** | **6.35** | **4.27** | **4.2** | **12.7** | <0.624 | **3.56** | **6.39 B** | **3.78** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **177** | **183** | **160** | **183** | **194** | **228** | **181** | **248** | **231** | **116** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.33** | **0.316** | <0.0362 | **0.408** | **0.335** | <0.0366 | **0.286** | <0.0378 | **0.606** | **0.293** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.0538 | <0.0558 | <0.0542 | <0.054 | <0.0536 | **5.4** | <0.0568 | <0.0566 | <0.0563 | <0.0551 |
| Chromium | NS | NS | NS | **29.3** | **40.2** | **41.2** | **45.6** | **60.7** | **43.6** | **51** | **46.7** | **66.2** | **45.6** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **7.73** | **12.6** | **7.52** | **10.3** | **12.9** | **5.57** | **13.9** | **12.7** | **10.2** | **11.6** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **47.3 J-** | **59 J-** | **30.3** | **26.1** | **23.4** | **209** | **37.6** | **35.9** | **26.2** | **51.2** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **83.6 J** | **58.2 J** | **49.2** | **60.2** | **82.6** | **1,780** | **99.2** | **506** | **26** | **83.9** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | <0.125 | <0.129 | **4.17** | <0.125 | <0.124 | **16.6** | <0.131 | <0.131 | <0.13 | **1.08** |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **38.1** | **73.3** | **35.8** | **46.6** | **66.6** | **25.4** | **49.3** | **44.9** | **65.6** | **37.7** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.873 | <0.905 | <0.879 | <0.876 | <0.87 | <0.888 | <0.921 | <0.917 | <0.913 | <0.894 |
| Silver | 1.77E+03 | 5.84E+03 | NS | **2.46** | <0.151 | <0.146 | <0.146 | <0.145 | <0.148 | <0.153 | <0.152 | <0.152 | <0.149 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.45 | <0.467 | <0.453 | <0.452 | <0.449 | <0.458 | <0.475 | <0.473 | <0.471 | <0.461 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **30.5** | **44.7** | **41.1** | **43.5** | **47.8** | **26.7** | **76** | **64.9** | **69.7** | **66.8** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **143** | **127** | **85.2** | **82.2** | **91.2** | **838** | **205** | **241** | **70.2** | **74.7** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.287** | **0.119** | **0.0679 J-** | **0.103 J-** | **0.0934 J-** | **1.07 J-** | **0.212 J-** | **0.269** | **0.0889** | **0.0838** |

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| Sample ID | 2019 RWQCB | 2019 RWQCB Direct | SFBR | G-F1-1 | G-F1-1 | G-F1-1 | G-F2-1 | G-F2-1 | G-F2-1 | G-F3-1 | G-F3-1 | G-F3-1 | G-G1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Contact Commercial / | Background | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Industrial ESLs[1] | Concentration[2] | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/29/2024 |
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | **4.12** | **11.4** | — | **2.61** | <0.613 | **4.9** | **3.27** | <0.728 | <0.742 | **7.56** |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **6.61** | **6** | — | <0.619 | <0.583 | **4.71** | <0.543 | <0.694 | <0.707 | **8.18** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **178** | **177** | — | **64.2** | **56.4** | **23.1** | **193** | **122** | **68.4** | **265** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.292** | **0.308** | — | <0.0376 | <0.0355 | <0.0371 | **0.686** | **0.417** | <0.043 | **0.625** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | **2.1** | **10.3** | — | <0.0562 | <0.0531 | <0.0555 | <0.0493 | <0.0631 | <0.0643 | <0.0554 |
| Chromium | NS | NS | NS | **59** | **93.6** | — | **20.9** | **14.9** | **53.7** | **43.3** | **21.1** | **10.6** | **66.4** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **19** | **17.5** | — | **4.12** | **3.4** | **4.36** | **1.92** | <0.109 | <0.111 | **10** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **81.4** | **266** | — | **33.4** | **12.1** | **136** | **64.1** | **48.4** | **40.1** | **28** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **219** | **194** | **46.8** | **43.3** | **23.6** | **29.6** | **141** | **33** | **16.2** | **12.2** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | <0.145 | **0.68** | — | <0.13 | **0.921** | **5.69** | **2.99** | **2.61** | **2.13** | <0.128 |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **86.9** | **88.2** | **55.1** | **20.3** | **17.9** | **31.9** | **15.6** | **8.01** | **4.52** | **43.9** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <1.01 | <1.02 | — | <0.912 | <0.861 | <0.9 | <0.8 | <1.02 | <1.04 | <0.899 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.168 | <0.17 | — | <0.152 | <0.143 | <0.15 | **20.4** | **11.7** | **6.17** | <0.149 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.523 | <0.526 | — | <0.47 | <0.444 | <0.464 | <0.413 | <0.528 | <0.537 | <0.463 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **66.5** | **96.9** | — | **25.4** | **13.3** | **10.7** | **13** | **6.89** | **3.41** | **64.4** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **1,400** | **1,180** | — | **96.3** | **46.9** | **26.1** | **99.4** | **33.8** | **15.9** | **64.6** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.127** | **0.143** | — | <0.0215 | <0.0203 | **0.128** | <0.0189 J3J6O1 | <0.0241 | <0.0246 | **0.0654** |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs or accepted background concentrations.

Boxed concentrations exceed the Commercial/Industrial ESLs.

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Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

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J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

V = The sample concentration is too high to evaluate accurate spike recoveries.

- = Result biased low due to laboratory quality assurance/quality control issues.

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure, January 2019.

[2]Arsenic concentrations are compared to the accepted background concentration for the San Francisco Bay Region as presented in "Establishing Background Arsenic in Soil of The Urbanized San Francisco Bay Region" by Dylan Jacques Duverge, December 2011.

**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | G-G1-1<br>2.0<br>5/29/2024 | G-G1-1<br>3.0<br>5/29/2024 | G-G1-1<br>4.0<br>5/29/2024 | G-G2-1<br>1.0<br>5/29/2024 | G-G2-1<br>2.0<br>5/29/2024 | G-G2-1<br>3.0<br>5/29/2024 | G-G2-1<br>4.0<br>5/29/2024 | G-G3-1<br>1.0<br>5/29/2024 | G-G3-1<br>2.0<br>5/29/2024 | G-G3-1<br>3.0<br>5/29/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | **7.34** | **5.12** | — | <0.68 | **4.49** | **4.33** | **7.07 J6+** | **3.85** | <0.668 | <0.672 |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **2.31** | **7.07** | — | <0.648 | **4.57** | **4.07** | **4.22** | **23.2** | **5.49** | **4.53** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **260** | **258** | — | **179** | **291** | **306** | **339** | **176** | **210** | **189** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.672** | **0.825** | — | **0.337 B** | **0.794** | **0.411** | **1.08** | <0.0335 | **0.283** | **0.258** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.0521 | **26.4** | — | <0.0589 | **0.851** | **3.24** | <0.0622 | **0.773** | <0.0578 | <0.0582 |
| Chromium | NS | NS | NS | **192** | **82** | — | **40.9** | **83.8** | **100** | **87.5** | **26.7** | **66.9** | **66.9** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **12** | **16** | — | **13.2** | **25.3** | **2.79** | **9.85 O1** | **8.67** | **13.1** | **13.1** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **46.7** | **60.2** | — | **29.7** | **40.3** | **28** | **41.4** | **43.2** | **30.8** | **26.1** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **30.8** | **407** | **114** | **46.6** | **30.7** | **233** | **63.9 J3J6** | **140** | **32.6** | **21.3** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | **2.18** | **1.01** | — | **0.687** | <0.144 | **3.29** | <0.144 | **2.92** | **1.2** | <0.135 |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **64.1** | **86.4** | — | **56.3** | **71.8** | **27.4** | **57.2** | **20** | **67.1** | **66.8** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.845 | <1.13 | — | <0.955 | <1.01 | <1.06 | <1.01 | <0.813 | <0.937 | <0.944 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.14 | <0.188 | — | <0.159 | <0.168 | <0.176 | <0.168 | <0.135 | <0.156 | <0.157 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <2.18 | <0.585 | — | <0.493 | <0.522 | <0.547 | <0.52 | <0.419 | <0.483 | <0.487 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **126** | **73.8** | — | **45.8** | **87.3** | **83.8** | **87.5** | **36.8** | **67.6** | **56.4** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **60.8** | **178** | — | **82.3** | **89** | **55.2** | **75.9** | **203** | **70.6** | **57.3** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.132** | **0.078** | — | **0.0589** | <0.0238 | <0.025 | **0.06** | **0.319** | **0.0632** | **0.0591** |

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**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | G-G4-1<br>1.0<br>5/23/2024 | G-G4-1<br>2.0<br>5/23/2024 | G-G4-1<br>3.0<br>5/23/2024 | G-G4-1<br>4.0<br>5/23/2024 | G-H2-1<br>1.0<br>5/30/2024 | G-H2-1<br>2.0<br>5/30/2024 | G-H2-1<br>3.0<br>5/30/2024 | G-H2-1<br>4.0<br>5/30/2024 | G-H3-1<br>1.0<br>5/30/2024 | G-H3-1<br>2.0<br>5/30/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | **16** | **11.8** | **14.8** | — | **11.2 J+** | **16.7 J+** | **16.8 J-** | — | **9.73** | **9.21** |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | **6.56** | **4.96** | <3.08 | — | <0.603 | **2.94** | **15.1 J** | **5.46** | **2.67** | <0.576 |
| Barium | 3.02E+03 | 2.17E+05 | NS | **136** | **155** | **57.6** | — | **219** | **243** | **207 J** | — | **200** | **166** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.863** | <0.0409 | <0.188 | — | **0.337** | **0.587** | **0.571** | — | **0.408** | **0.494** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | **7.79** | **9.77** | <0.281 | — | **5.9** | **7.58** | **11.4** | — | **0.886** | **0.829** |
| Chromium | NS | NS | NS | **64.9** | **24.1** | **519** | — | **43.4** | **112** | **77.6** | — | **48.8** | **51.7** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **5.13** | **5.37** | **11.6** | — | **15.3** | **9.2** | **2.07** | — | **9.54** | **8.62** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **69.6** | **331** | **210** | — | **78.8** | **204** | **173 J-** | — | **57.6** | **44.6** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **1,720** | **1,760** | **52.7** | — | **743 J** | **1,620 J** | **4,640 J-** | **53.8** | **291** | **381** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | **4.42** | **1.9** | **26** | — | **12.6** | **19.2** | **6.02** | — | **1.64** | **1.02** |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **30.8** | **30.7** | **114** | **52.8** | **61.1** | **77.1** | **22.9** | — | **55.6** | **57.6** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.916 | <0.993 | <4.54 | — | <0.889 | **2.81** | **7.42** | — | <0.838 | <0.849 |
| Silver | 1.77E+03 | 5.84E+03 | NS | **13.9** | **2.23** | **17.7** | — | **1.37 B** | **2.47 B** | **6.93** | — | <0.139 | <0.141 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.472 | <0.512 | <2.34 | — | <0.459 | <0.468 | <2.3 | — | <0.432 | <0.438 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **21.3** | **10.2** | **126** | — | **62** | **40.1** | **26** | — | **43.1** | **37.3** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **1,160** | **962** | <4.95 | — | **339 J+** | **1,240 J+** | **1,880 J-** | — | **309** | **280** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | <0.0216 | **0.556 J-** | <0.0214 | — | **0.206** | **0.0501** | <0.021 | — | **0.275** | **0.159** |

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| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | G-H3-1<br>3.0<br>5/30/2024 | G-H3-1<br>4.0<br>5/30/2024 | UC-A2-1<br>1.0<br>5/20/2024 | UC-A2-1<br>2.0<br>5/20/2024 | UC-A2-1<br>3.0<br>5/20/2024 | UC-A3-1<br>1.0<br>5/20/2024 | UC-A3-1<br>2.0<br>5/20/2024 | UC-A3-1<br>3.0<br>5/20/2024 | UC-B4-2<br>1.0<br>5/23/2024 | UC-B4-2<br>2.0<br>5/23/2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | | | | | | | |
| Antimony | 4.96E+01 | 1.64E+02 | NS | **13.1** | — | <0.587 J- | <0.596 J- | <0.613 J- | <0.578 J- | <0.646 J- | <0.628 | <0.595 | **9.82** |
| Arsenic | 9.76E-01 | 3.05E-01 | 11 | <0.656 | — | **8.47** | **3.84** | **4.54** | **10.6** | <0.616 | **2.56** | **7.14** | **4.37** |
| Barium | 3.02E+03 | 2.17E+05 | NS | **269** | — | **198** | **266** | **213** | **190** | **62.9** | **162** | **110** | **560** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | **0.271** | — | **0.217** | **0.312** | <0.0355 | **0.306** | <0.0374 | <0.0364 | <0.0345 | **1.31** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | **1.04** | — | **2.3** | **1.17** | <0.0531 | <0.0501 | <0.056 | <0.0544 | **0.859** | **14.7** |
| Chromium | NS | NS | NS | **57.8** | — | **33.6** | **28.7** | **16.9** | **111** | **9.44** | **33.4** | **22** | **103** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **8.47** | — | **6.82** | **12.9** | **4.72** | **9.06** | **4.45** | **5.71** | **5.96** | **1.83** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **102** | — | **373 J-** | **209 J-** | **28.1 J-** | **37.2 J+** | **9.51 J-** | **13.9** | **23.3** | **92.7** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **644** | **31.9** | **361 J** | **179 J** | **90.7 J** | **44.4 J** | **11.1 J** | **23.7** | **220** | **4,890** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | **4.22** | — | **1.1** | <0.119 | <0.123 | **1.67** | <0.13 | **0.796** | **1.26** | **7.35** |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **52.2** | — | **69.8** | **53.5** | **21.6** | **86.1 J-** | **14.2** | **29.5** | **20.2** | **19.4** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.967 | — | <0.825 | <0.837 | <0.861 | <0.812 | <0.908 | <0.882 | <0.836 | <0.933 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.161 | — | <0.137 | <0.139 | <0.143 | **1.99** | <0.151 | <0.147 | **4.88** | **75.6** |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.499 | — | <0.425 | <0.432 | <0.444 | <0.419 | <0.468 | <0.455 | <0.431 | <2.41 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **39.3** | — | **22.9** | **31.4** | **16.9** | **42.8** | **14** | **34.2** | **22** | **36.2** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **345** | — | **6,260** | **384** | **78.7** | **89.8** | **31.2** | **47** | **151** | **4,510** |
| **METALS - 7471A (mg/kg)** | | | | | | | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.215** | — | **0.205** | **0.286** | **0.568** | **0.0721** | **0.0487** | **0.188** | **0.0706 J-** | <0.022 |

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J4 = The associated batch quality control was outside the established quality control for accuracy.

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

V = The sample concentration is too high to evaluate accurate spike recoveries.

- = Result biased low due to laboratory quality assurance/quality control issues.

+ = Result biased high due to laboratory quality assurance/quality control issues.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]Arsenic concentrations are compared to the accepted background concentration for the San Francisco Bay Region as presented in "Establishing Background Arsenic in Soil of The Urbanized San Francisco Bay Region" by Dylan Jacques Duverge, December 2011.

**Table 2. Summary of Total Metals in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB Direct Contact Construction Worker ESLs[1] | 2019 RWQCB Direct Contact Commercial / Industrial ESLs[1] | SFBR Background Concentration[2] | UC-B4-2 3.0 5/23/2024 | UC-H1-1 1.0 5/30/2024 | UC-H1-1 2.0 5/30/2024 | UC-H1-1 3.0 5/30/2024 |
|---|---|---|---|---|---|---|---|
| **METALS - 6010B (mg/kg)** | | | | | | | |
| Antimony | 4.98E+01 | 1.64E+02 | NS | <0.592 | **8.78 J+** | **10.4 J+** | **7.93 J6+** |
| Arsenic | 9.78E-01 | 3.05E-01 | 11 | **2.38** | <0.632 | <0.593 | <0.702 |
| Barium | 3.02E+03 | 2.17E+05 | NS | **130** | **257** | **200** | **376 J6** |
| Beryllium | 2.72E+01 | 2.32E+02 | NS | <0.0343 | **0.388** | **0.348** | **0.856** |
| Cadmium | 5.09E+01 | 1.15E+03 | NS | <0.0513 | <0.0574 | <0.0539 | <0.0638 |
| Chromium | NS | NS | NS | **10.5** | **63** | **51.1** | **89** |
| Cobalt | 2.79E+01 | 3.47E+02 | NS | **7.63** | **13.8** | **11.3** | **15.3** |
| Copper | 1.42E+04 | 4.67E+04 | NS | **26.8** | **28.8** | **33.4** | **44.2** |
| Lead | 1.60E+02 | 3.20E+02 | NS | **60.1** | **35.6 J** | **64 J** | **48.7 J3J6** |
| Molybdenum | 1.77E+03 | 5.84E+03 | NS | <0.119 | <0.133 | <0.125 | **1.56** |
| Nickel | 8.63E+01 | 1.11E+04 | NS | **16.1** | **61.6** | **43.1** | **77.6** |
| Selenium | 1.75E+03 | 5.84E+03 | NS | <0.832 | <0.932 | <0.875 | <1.04 |
| Silver | 1.77E+03 | 5.84E+03 | NS | <0.138 | <0.155 | <0.145 | <0.172 |
| Thallium | 3.54E+00 | 1.17E+01 | NS | <0.429 | <0.481 | <0.451 | <0.534 |
| Vanadium | 4.66E+02 | 5.83E+03 | NS | **18.1** | **57.7** | **57.2** | **82.2** |
| Zinc | 1.06E+05 | 3.50E+05 | NS | **90.7** | **86.6 J+** | **110 J+** | **113 J3J6+** |
| **METALS - 7471A (mg/kg)** | | | | | | | |
| Mercury | 4.36E+01 | 1.87E+02 | NS | **0.385** | **0.102** | **0.118** | **0.197** |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs or accepted background concentrations.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

mg/kg = Milligrams per kilogram.

NA* = Not analyzed due to lab disposing of sample without notice.

NS = No standard established.

RWQCB = Regional Water Quality Control Board.

SFBR = San Francisco Bay Region.

B = The same analyte is found in the associated blank.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]Arsenic concentrations are compared to the accepted background concentration for the San Francisco Bay Region as presented in "Establishing Background Arsenic in Soil of The Urbanized San Francisco Bay Region" by Dylan Jacques Duverge, December 2011.

Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | B5-B1-1 | B5-B1-1 | B5-B1-1 | B5-C1-1 | B5-C1-1 | B5-C1-1 | B5-D1-1 | B5-D1-1 | B5-D1-1 | B5-E1-1 | B5-E1-1 | B5-E1-1 | B5-F1-1 | B5-F1-1 | B5-F1-1 | B5-G1-1 | B5-G1-1 | B5-G1-1 | B5-H-1 | B5-H-1 | B5-H-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 4.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 4.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.9E+00 | — | <0.00128 | <0.00155 | <0.00159 | <0.00111 | <0.0016 | <0.00126 | <0.00115 | <0.00114 | <0.00148 | <0.0012 | <0.00165 | <0.00142 | <0.00113 | <0.00127 | <0.00137 | <0.00149 | <0.00204 | <0.00154 | <0.00165 | <0.00109 | <0.0013 | <0.00209 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.00125 | <0.00151 | <0.00155 | <0.00108 | <0.00155 | <0.00122 | <0.00112 | <0.00111 | <0.00144 | **0.00409** | <0.00162 | <0.00138 | <0.0011 | <0.00124 | <0.00134 | <0.00145 | <0.00198 | <0.00151 | <0.00161 | **0.00855** | **0.013** | <0.00203 |
| 1,1,2,2-Tetrachloroethane | 4.9E+01 | 2.7E+00 | — | <0.00094 | <0.0013 | <0.00117 | <0.0008 | <0.00117 | <0.000921 | <0.000845 | <0.000835 | <0.00108 | <0.000881 | <0.00122 | <0.00104 | <0.000828 | <0.000932 | <0.00101 | <0.00109 | <0.00149 | <0.00113 | <0.00122 | <0.000798 | <0.00095 | <0.00153 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.000807 | <0.000974 | <0.001 | <0.000696 | <0.00101 | <0.000791 | <0.000726 | <0.000717 | <0.000931 | <0.000757 | <0.00105 | <0.000894 | <0.000711 | <0.000801 | <0.000865 | <0.000937 | <0.00128 | <0.000973 | <0.00104 | <0.000685 | <0.000816 | <0.00131 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.00102 | <0.00123 | <0.00127 | <0.000879 | <0.00127 | <0.000999 | <0.000917 | <0.000905 | <0.00118 | <0.000855 | <0.00132 | <0.00113 | <0.000898 | <0.00101 | <0.00109 | <0.00118 | <0.00163 | <0.00123 | <0.00132 | <0.000665 J3 | <0.00103 J3 | <0.00165 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.000664 | <0.000801 | <0.000825 | <0.000572 | <0.000827 | <0.000651 | <0.000597 | <0.00059 | <0.000766 | <0.000622 | <0.000861 | <0.000735 | <0.000585 | <0.000658 | <0.000711 | <0.000771 | <0.00106 | <0.0008 | <0.000859 | <0.000564 | <0.000671 | <0.00108 |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.000819 | <0.000988 | <0.00102 | <0.000706 | <0.00102 | <0.000803 | <0.000737 | <0.000728 | <0.000945 | <0.000768 | <0.00106 | <0.000907 | <0.000722 | <0.000813 | <0.000878 | <0.000951 | <0.00131 | <0.000988 | <0.00106 | <0.000696 | <0.000829 | <0.00133 |
| 1,1-Dichloropropene | NS | NS | NS | <0.00109 | <0.00132 | <0.00136 | <0.000943 | <0.00135 | <0.00107 | <0.000984 | <0.000971 | <0.00126 | <0.00103 | <0.00142 | <0.00121 | <0.000954 | <0.00108 | <0.00117 | <0.00127 | <0.00174 | <0.00132 | <0.00141 | <0.000929 | <0.00111 | <0.00178 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.00991 | <0.0119 | <0.0123 | <0.00854 R | <0.0123 R | <0.00972 R | <0.00892 | <0.0088 | <0.0114 | <0.00929 | <0.0129 | <0.011 | <0.00873 | <0.00983 | <0.0106 | <0.0115 | <0.0156 | <0.0119 | <0.0128 | <0.00841 | <0.01 | <0.0161 |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.00219 | <0.00263 | <0.00272 | <0.00189 | <0.00273 | <0.00215 | <0.00197 | <0.00195 | <0.00253 | <0.00205 | <0.00284 | <0.00243 | <0.00193 | <0.00217 | <0.00235 | <0.00254 | <0.00349 | <0.00265 | <0.00283 | <0.00185 J4 | <0.00222 J4 | <0.00355 |
| 1,2,3-Trimethylbenzene | NS | NS | 2.0E+03 | <0.00214 | <0.00257 | <0.00265 | <0.00184 J4 | <0.00266 J4 | <0.00209 J4 | <0.00192 | <0.0019 | <0.00246 | **0.0341** | **0.0385** | <0.00237 | <0.00188 | <0.00212 | <0.00229 | <0.00248 | <0.0034 | <0.00258 | <0.00276 | <0.00181 | <0.00216 | <0.00346 |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.00995 | <0.00718 | <0.00739 | <0.00513 R | <0.00741 R | <0.00583 R | <0.00535 | <0.00528 | <0.00686 | <0.00558 | <0.00772 | <0.00659 | <0.00524 | <0.0059 | <0.00637 | <0.00691 | <0.00947 | <0.00717 | <0.00769 | <0.00505 | <0.00602 | <0.00985 J3 |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | <0.00214 | <0.00257 | <0.00265 | <0.00184 J4 | <0.00266 J4 | <0.00209 J4 | <0.00192 | <0.0019 | <0.00246 | **0.044** | **0.0479** | <0.00237 | <0.00188 | <0.00212 | <0.00229 | <0.00248 | <0.0034 | <0.00258 | <0.00276 | <0.00181 | <0.00216 | <0.00346 |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.00527 | <0.00637 | <0.00655 | <0.00455 | <0.00657 | <0.00517 | <0.00474 | <0.00468 | <0.00608 | <0.00494 | <0.00684 | <0.00584 | <0.00465 | <0.00523 | <0.00565 | <0.00612 | <0.00839 | <0.00635 | <0.00681 | <0.00448 | <0.00533 | <0.00856 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.000876 | <0.00106 | <0.00109 | <0.000755 | <0.00109 | <0.000859 | <0.000788 | <0.000778 | <0.00101 | <0.000822 | <0.00114 | <0.00097 | <0.000772 | <0.000869 | <0.000939 | <0.00102 | <0.00139 | <0.00106 | <0.00113 | <0.000744 | <0.000886 | <0.00142 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.000575 | <0.000693 | <0.000714 | <0.000495 | <0.000716 | <0.000563 | <0.000517 | <0.00051 | <0.000663 | <0.000539 | <0.000745 | <0.000636 | <0.000505 | <0.00057 | <0.000616 | <0.000667 | <0.000915 | <0.000692 | <0.00074 2 | <0.000488 | <0.000581 | <0.000932 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.000878 | <0.00106 | <0.00109 | <0.000757 | <0.00109 | <0.00086 | <0.000789 | <0.000779 | <0.00101 | <0.000823 | <0.00114 | <0.000972 | <0.000773 | <0.00087 | <0.00094 | <0.00102 | <0.00139 | <0.00106 | <0.00113 | <0.000745 | <0.000887 | <0.00142 |
| 1,2-Dichloropropane | 6.8E+01 | 4.4E+00 | — | <0.00192 | <0.00232 | <0.00239 | <0.00166 | <0.00239 | <0.00188 | <0.00173 | <0.00171 | <0.00221 | <0.0018 | <0.00249 | <0.00213 | <0.00169 | <0.0019 | <0.00205 | <0.00223 | <0.00306 | <0.00231 | <0.00248 | <0.00163 | <0.00194 | <0.00312 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | <0.0027 | <0.00326 | <0.00336 | <0.00233 J4R | <0.00337 J4R | <0.00265 J4R | <0.00243 | <0.0024 | <0.00312 | **0.0184** | **0.0219** | <0.00299 | <0.00238 | <0.00268 | <0.00288 | <0.00314 | <0.0043 | <0.00326 | <0.0035 | <0.0023 | <0.00273 | <0.00439 |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.000811 | <0.000978 | <0.00101 | <0.000699 | <0.00101 | <0.000795 | <0.00073 | <0.0072 | <0.000936 | <0.000761 | <0.00105 | <0.000898 | <0.000642 | <0.00081 | <0.000869 | <0.000942 | <0.0013 | <0.000978 | <0.00105 | <0.000689 | <0.00082 | <0.00132 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.000677 | <0.000817 | <0.000842 | <0.000584 | <0.000844 | <0.000664 | <0.000608 | <0.000602 | <0.000781 | <0.000635 | <0.000879 | <0.00075 | <0.000597 | <0.000672 | <0.000726 | <0.000786 | <0.00108 | <0.000816 | <0.000876 | <0.000575 | <0.000685 | <0.0011 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.000947 | <0.00114 | <0.00118 | <0.000816 | <0.00118 | <0.000928 | <0.000851 | <0.000841 | <0.00109 | <0.000887 | <0.00123 | <0.00105 | <0.000834 | <0.000939 | <0.00101 | <0.0011 | <0.0015 | <0.00114 | <0.00122 | <0.000804 | <0.000857 | <0.00154 |
| 2,2-Dichloropropane | NS | NS | NS | <0.00167 | <0.00226 | <0.00232 | <0.00161 | <0.00232 | <0.00183 | <0.00168 J3 | <0.00166 J3 | <0.00215 J3 | <0.00176 | <0.00242 | <0.00207 | <0.00164 | <0.00185 | <0.002 | <0.00217 | <0.00297 | <0.00224 | <0.00241 | <0.00158 | <0.00189 | <0.00303 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <0.0859 J4 | <0.103 J4 | <0.107 J4 | <0.074 | <0.107 | <0.0842 | <0.0772 | <0.0762 | <0.099 | <0.0805 | <0.111 | <0.0951 | <0.0757 | <0.0852 | <0.092 | <0.0997 | <0.137 | <0.103 | <0.111 | <0.0729 J3 | <0.0868 J3 | <0.139 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.00117 | <0.00141 | <0.00145 | <0.00101 | <0.00146 | <0.00115 | <0.00105 | <0.00104 | <0.00135 | <0.0011 | <0.00152 | <0.0013 | <0.00103 | <0.00116 | <0.00125 | <0.00136 | <0.00186 | <0.00141 | <0.00151 | <0.000993 | <0.00118 | <0.0019 |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.0171** | **0.0169** | **0.0169** | **0.0165** | **0.0165** | **0.0158** | **0.0167** | **0.0172** | **0.0166** | **0.0169** | **0.0168** | **0.0166** | **0.0172** | **0.0168** | **0.0169** | **0.0173** | **0.017** | **0.0169** | **0.0169** | **0.0161** | **0.0164** | **0.0165** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.000609 J4 | <0.000734 J4 | <0.000756 J4 | <0.000525 | <0.000758 | <0.000597 | <0.000547 | <0.00054 | <0.000702 | <0.00057 | <0.000789 | <0.000674 | <0.000536 | <0.000603 | <0.000652 | <0.000706 | <0.000969 | <0.000733 | <0.000787 | <0.000517 | <0.000615 | <0.000987 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.00308 | <0.00372 | <0.00383 | <0.00266 | <0.00384 | <0.00302 | <0.00277 | <0.00274 | <0.00356 | <0.00289 | <0.004 | <0.00341 | <0.00272 | <0.00306 | <0.0033 | <0.00358 | <0.0049 | <0.00372 | <0.00398 | <0.00262 | <0.00312 | <0.00501 |
| Acetone | 2.7E+05 | 6.7E+05 | — | <0.0494 J4 | <0.0596 J4 | <0.0613 J4 | <0.0425 | <0.0615 | <0.0484 | <0.0444 | <0.0438 | <0.0569 | <0.0463 J3 | <0.064 J3 | <0.0547 J3 | <0.0435 | <0.049 | <0.0529 | <0.0573 | <0.0785 | <0.0596 | <0.0637 | <0.0419 J3J4 | <0.0499 J3J4 | <0.0802 J3 |
| Acrylonitrile | NS | NS | 1.1E+00 | <0.00488 | <0.00588 | <0.00606 | <0.00421 | <0.00608 | <0.00479 | <0.00439 | <0.00433 | <0.00563 | <0.00458 | <0.00633 | <0.00541 | <0.0043 | <0.00484 | <0.00523 | <0.00567 | <0.00777 | <0.00588 | <0.00631 | <0.00414 | <0.00494 | <0.00793 |
| Benzene | 3.3E+01 | 1.4E+00 | — | <0.000832 | <0.000762 | <0.000785 | <0.000544 | <0.000787 | <0.000619 | **0.00183** | <0.000561 | <0.000728 | **0.00958** | **0.0155** | <0.000569 | <0.000556 | <0.000626 | <0.000676 | <0.000733 | **0.00372** | **0.002** | <0.000616 | <0.000536 | <0.000639 | <0.00102 |
| Bromobenzene | NS | NS | 1.8E+03 | <0.00122 | <0.00147 | <0.00151 | <0.00105 | <0.00152 | <0.00119 | <0.00109 | <0.00108 | <0.0014 | <0.00114 | <0.00158 | <0.00135 | <0.00107 | <0.00121 | <0.0013 | <0.00141 | <0.00193 | <0.00146 | <0.00157 | <0.00103 | <0.00123 | <0.00198 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.00098 | <0.00118 | <0.00122 | <0.000845 | <0.00122 | <0.000961 | <0.000882 | <0.000871 | <0.00113 | <0.000919 | <0.00127 | <0.00109 | <0.000864 | <0.000972 | <0.00105 | <0.00114 | <0.00157 | <0.00118 | <0.00127 | <0.000832 | <0.000991 | <0.00159 |
| Bromoform | 1.2E+03 | 8.0E+01 | — | <0.00158 | <0.00191 | <0.00197 | <0.00136 | <0.00197 | <0.00155 | <0.00142 | <0.0014 | <0.00182 | <0.00148 | <0.00205 | <0.00175 | <0.00139 | <0.00157 | <0.00169 | <0.00184 | <0.0026 | <0.00191 | <0.00205 | <0.00134 | <0.0016 | <0.00258 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.00266 | <0.00321 | <0.00331 | <0.0023 | <0.00332 | <0.00261 | <0.0024 | <0.00237 | <0.00307 | <0.0025 J3 | <0.00346 J3 | <0.00295 J3 | <0.00235 | <0.00264 | <0.00285 | <0.00309 | <0.00424 | <0.00321 | <0.00345 | <0.00226 | <0.00259 | <0.00432 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.00121 | <0.00146 | <0.00151 | <0.00105 | <0.00151 | <0.00119 | <0.00109 | <0.00108 | <0.0014 | <0.00114 | <0.00158 | <0.00134 | <0.00107 | <0.0012 | <0.0013 | <0.00141 | <0.00193 | <0.00146 | <0.00157 | <0.00103 | <0.00123 | <0.00198 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.000284 | <0.000342 | <0.000353 | <0.000245 | <0.000354 | <0.000278 | <0.000255 | <0.000252 | <0.000327 | <0.000266 | <0.000368 | <0.000314 | <0.00025 | <0.000282 | <0.000304 | <0.00033 | <0.000452 | <0.000343 | <0.000368 | <0.000241 | <0.000287 | <0.000461 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.000828 | <0.000997 | <0.00103 | <0.000713 | <0.00103 | <0.000811 | <0.000744 | <0.000735 | <0.000954 | <0.000776 | <0.00107 | <0.000916 | <0.000729 | <0.000821 | <0.000887 | <0.00096 | <0.00132 | <0.000998 | <0.00107 | <0.000703 | <0.000837 | <0.00134 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.0023 | <0.00278 | <0.00286 | <0.00198 | <0.00286 | <0.00225 | <0.00207 | <0.00204 | <0.00265 | <0.00216 | <0.00298 | <0.00255 | <0.00203 | <0.00228 | <0.00246 | <0.00267 | <0.00366 | <0.00277 | <0.00298 | <0.00195 | <0.00232 | <0.00374 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.00139 | <0.00168 | <0.00173 | <0.0012 | <0.00174 | <0.00137 | <0.00125 | <0.00124 | <0.00161 | <0.00131 | <0.00181 | <0.00154 | <0.00123 | <0.00138 | <0.00149 | <0.00162 | <0.00221 | <0.00167 | <0.0018 | <0.00118 | <0.00141 | <0.00227 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.00588 | <0.00709 | <0.00731 | <0.00507 | <0.00733 | <0.00577 | <0.00529 | <0.00522 | <0.00678 | <0.00551 | <0.00763 | <0.00651 | <0.00518 J4 | <0.00583 J4 | <0.00683 J4 | <0.00693 J4 | <0.00937 | <0.00709 | <0.00761 | <0.00499 | <0.00595 | <0.00954 |
| cis-1,2-Dichloroethene | 7.8E+01 | 8.5E+01 | — | <0.000993 | <0.0012 | <0.00123 | <0.000855 | <0.00124 | <0.000973 | <0.000893 | <0.000881 | <0.00114 | <0.000931 | <0.00129 | <0.0011 | <0.000874 | <0.000984 | <0.00106 | <0.00115 | <0.00158 | <0.00119 | <0.00128 | <0.000843 | <0.001 | <0.00161 |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00102 | <0.00123 | <0.00127 | <0.000882 | <0.00128 | <0.001 | <0.000921 | <0.000909 | <0.00118 | <0.00096 | <0.00133 | <0.00113 | <0.000902 | <0.00102 | <0.0011 | <0.00119 | <0.00163 | <0.00124 | <0.00132 | <0.000869 | <0.00104 | <0.00166 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.00101 | <0.00122 | <0.00126 | <0.000874 | <0.00126 | <0.000994 | <0.000912 | <0.000901 | <0.00117 | <0.000951 | <0.00132 | <0.00112 | <0.000894 | <0.00101 | <0.00109 | <0.00118 | <0.00161 | <0.00123 | <0.00131 | <0.000861 | <0.00103 | <0.00165 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.00218 | <0.00262 | <0.0027 | <0.00188 | <0.00271 | <0.00213 | <0.00196 | <0.00193 | <0.00251 | <0.00204 J3 | <0.00282 J3 | <0.00241 J3 | <0.00192 | <0.00216 | <0.00233 | <0.00253 | <0.00346 | <0.00262 | <0.00281 | <0.00185 | <0.0022 | <0.00354 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.000554 | <0.00668 | <0.000689 | <0.000478 | <0.000691 | <0.000543 | <0.000499 | <0.000492 | <0.000639 | <0.00052 | <0.000719 | <0.00061 4 | <0.000488 | <0.00055 | <0.000594 | <0.000643 | <0.000883 | <0.000669 | <0.000717 | <0.000471 | <0.000561 | <0.0009 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | <0.000997 | <0.0012 | <0.00124 | <0.000859 | <0.00124 | <0.000977 | <0.000896 | <0.000885 | <0.00115 | **0.0114** | **0.0133** | <0.0011 | <0.000878 | <0.000988 | <0.00107 | <0.00116 | <0.00159 | <0.00121 | <0.00129 | <0.000846 | <0.00101 | <0.00162 |
| Hexachloro-1,3-butadiene | 1.2E+02 | 5.3E+00 | — | <0.00811 | <0.00978 | <0.0101 | <0.00699 | <0.0101 | <0.00795 | <0.0073 | <0.0072 | <0.00936 | <0.00761 J3 | <0.0105 J3 | <0.00898 J3 | <0.00715 | <0.00805 | <0.00869 | <0.00942 | <0.013 | <0.00978 | <0.0105 | <0.00689 | <0.0082 | <0.0132 |
| Isopropylbenzene | NS | NS | NS | <0.000575 | <0.000693 | <0.000714 | <0.000495 | <0.000716 | <0.000563 | <0.000517 | <0.00051 | <0.000663 | **0.00382** | **0.00482** | <0.000636 | <0.000505 | <0.00057 | <0.000616 | <0.000667 | <0.000915 | <0.000692 | <0.000742 | <0.000488 | <0.000581 | <0.000932 |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.000473 | <0.000571 | <0.000588 | <0.000408 | <0.00059 | <0.000464 | <0.000426 | <0.00042 | <0.000546 | <0.000444 | <0.000614 | <0.000524 | <0.000417 | <0.000469 | <0.000507 | <0.000549 | <0.000753 | <0.00057 | <0.000613 | <0.000402 | <0.000479 | <0.000767 |
| Methylene Chloride | 4.9E+02 | 2.5E+01 | — | <0.00898 | <0.0108 | <0.0112 | <0.00774 | <0.0112 | <0.0088 | <0.00808 | <0.00797 | <0.0104 | <0.00842 | <0.0116 | <0.00994 | <0.00791 | <0.0089 | <0.00962 | <0.0104 | <0.0143 | <0.0108 | <0.0116 | <0.00762 | <0.00908 | <0.0146 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | <0.0056 J3 | <0.00736 J3 | <0.0082 J3 | <0.00569 | <0.00822 | <0.00647 | **0.0221** | <0.00586 | <0.00761 | **0.0901** | **0.0958** | <0.00731 | **0.0328** | <0.00654 | <0.00707 | <0.00765 | <0.0105 | <0.00795 | <0.00852 | <0.0056 | <0.00657 | <0.0107 J3 |
| n-Butylbenzene | NS | NS | 5.6E+04 | <0.0071 | <0.00856 | <0.00882 | <0.00612 | <0.00884 | <0.00696 | <0.00639 | <0.0063 | <0.00819 | <0.00666 | <0.00921 | <0.00786 | <0.00625 | <0.00704 | <0.00761 | <0.00824 | <0.0113 | <0.00856 | <0.00917 | <0.00603 | <0.00718 | <0.0115 |
| n-Propylbenzene | NS | NS | 2.4E+04 | <0.00128 | <0.00155 | <0.0016 | <0.00111 | <0.0016 | <0.00126 | <0.00116 | <0.00114 | <0.00148 | **0.00805** | **0.00939** | <0.00142 | <0.00113 | <0.00127 | <0.00138 | <0.00149 | **0.0166** | <0.00155 | <0.00166 | <0.00109 | <0.0013 | <0.00209 |
| p-Isopropyltoluene | NS | NS | NS | <0.00345 | <0.00415 | <0.00428 | <0.00297 | <0.0043 | <0.00338 | <0.0031 | <0.00305 | <0.00398 | **0.0231** | **0.0261** | <0.00382 | <0.00304 | <0.00342 | <0.00369 | <0.004 | <0.00549 | <0.00415 | <0.00446 | <0.00293 | <0.00349 | <0.0056 |
| sec-Butylbenzene | NS | NS | 1.2E+05 | <0.00369 | <0.0047 | <0.00484 | <0.00336 | <0.00485 | <0.00382 | <0.0035 | <0.0046 | <0.00449 | <0.00365 | <0.00505 | <0.00431 | <0.00343 | <0.00386 | <0.00417 | <0.00452 | <0.0062 | <0.00469 | <0.00503 | <0.00331 | <0.00394 | <0.00631 |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.00031 | <0.000373 | <0.000385 | <0.000267 | <0.000386 | <0.000304 | <0.000279 | <0.000275 | <0.000357 | <0.00029 | <0.000402 | <0.000343 | <0.000273 | <0.000307 | <0.000332 | <0.000359 | <0.000493 | <0.000373 | <0.000389 | <0.000263 | <0.000313 | <0.000502 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.00264 | <0.00318 | <0.00328 | <0.00227 | <0.00328 | <0.00259 | <0.00237 | <0.00234 | <0.00304 | <0.00247 | <0.00342 | <0.00292 | <0.00232 | <0.00262 | <0.00282 | <0.00305 | <0.00419 | <0.00318 | <0.00341 | <0.00224 | <0.00267 | <0.00428 |
| Tetrachloroethene | 3.3E+01 | 2.7E+00 | — | <0.00121 | <0.00146 | <0.00151 | <0.00104 | <0.00151 | <0.00119 | <0.00109 | <0.00108 | <0.0014 | <0.00114 | <0.00157 | <0.00134 | <0.00107 | <0.0012 | <0.0013 | <0.00141 | **0.0098** | **0.0264** | **0.0088** | <0.00103 | <0.00123 | <0.00196 |
| Toluene | 4.7E+03 | 5.3E+03 | — | <0.00176 | <0.00212 | <0.00218 | <0.00152 | <0.00219 | <0.00172 | <0.00158 | <0.00155 | <0.00203 | **0.0271** | **0.0393** | <0.00195 | <0.00155 | <0.00174 | <0.00188 | <0.00204 | <0.0026 | <0.00212 | <0.00226 | <0.00149 | <0.00178 | <0.00285 |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.00141 | <0.00169 | <0.00175 | <0.00121 | <0.00175 | <0.00138 | <0.00126 | <0.00125 | <0.00162 | <0.00132 | <0.00182 | <0.00156 | <0.00124 | <0.00139 | <0.00151 | <0.00163 | <0.00224 | <0.0017 | <0.00181 | <0.00119 | <0.00142 | <0.00229 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00154 | <0.00187 | <0.00192 | <0.00133 | <0.00192 | <0.00151 | <0.00139 | <0.00137 | <0.00178 | <0.00145 | <0.002 | <0.00171 | <0.00136 | <0.00153 | <0.00165 | <0.00179 | <0.00246 | <0.00185 | <0.002 | <0.00131 | <0.00156 | <0.0025 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | <0.00079 | <0.000952 | <0.000981 | <0.000681 | <0.000984 | <0.000774 | <0.00071 | <0.000701 | <0.000911 | <0.00074 | <0.00102 | <0.000874 | <0.000695 | <0.000783 | <0.000846 | <0.000917 | <0.00126 | <0.000952 | <0.00102 | <0.00067 | <0.000799 | <0.00128 |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.00112 | <0.00135 | <0.00139 | <0.000964 | <0.00139 | <0.0011 | <0.00101 | <0.000993 | <0.00129 | <0.00105 | <0.00145 | <0.00124 | <0.000985 | <0.00111 | <0.0012 | <0.0013 | <0.00179 | <0.00135 | <0.00144 | <0.000949 | <0.00113 | <0.00181 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.00157 | <0.0019 | <0.00195 | <0.00135 | <0.00195 | <0.00154 | <0.00141 | <0.00139 | <0.00181 | <0.00147 J3 | <0.00203 J3 | <0.00174 J3 | <0.00138 | <0.00155 | <0.00168 | <0.00182 | <0.0024 | <0.00188 | <0.00203 | <0.00133 | <0.00159 | <0.00254 |
| Xylenes, Total | 2.4E+03 | 2.6E+03 | — | <0.00119 | <0.00143 | <0.00148 | <0.00103 | <0.00148 | <0.00117 | <0.00107 | <0.00106 | <0.00137 | **0.163** | **0.117** | <0.00132 | <0.00105 | <0.00118 | <0.00127 | <0.00138 | <0.0019 | **0.02** | <0.00154 | <0.00101 | <0.0012 | <0.00192 |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure, January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels, May 2024.

Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | BS-I-1 | BS-I2-1 | BS-I3-1 | BS-I2-1 | BS-I3-1 | BS-I3-1 | BS-I3-1 | G/BS-A2-1 | G/BS-A2-1 | G/BS-A2-1 | G/BS-A3-1 | G/BS-A3-1 | G/BS-A3-1 | G/BS-D4-1 | G/BS-D4-1 | G/BS-D4-1 | G/BS-F4-1 | G/BS-F4-1 | G/BS-F4-1 | G/BS-H1-1 | G/BS-H1-1 | G/BS-H1-1 | G/BS-H1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 5.0 | 2.0 | 3.0 | 4.0 | 5.0 | 2.0 | 4.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 4.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/20/2024 | 5/30/2024 | 5/30/2024 | 5/20/2024 | 5/30/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.9E+00 | — | <0.00161 | <0.00117 | <0.00146 | <0.00145 | <0.00155 | <0.00124 | <0.00146 | <0.00145 | <0.00118 | <0.00167 | <0.00145 | <0.00156 | <0.00135 | <0.0015 | <0.00152 | <0.00118 | <0.00141 | <0.00133 | <0.00144 | <0.00159 | <0.0011 | <0.0127 | <0.00155 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.00156 | <0.00114 | <0.00143 | <0.00141 | <0.00151 | <0.00121 | <0.00142 | <0.00141 | <0.00115 | <0.00163 | <0.00141 | <0.00152 | <0.00132 | <0.00146 | <0.00149 | **0.00812** | <0.00137 | **0.0734** | <0.0014 | <0.00155 | <0.00108 | <0.0124 | <0.00151 |
| 1,1,2,2-Tetrachloroethane | 4.5E+01 | 2.7E+00 | — | <0.00118 | <0.000858 | <0.00107 | <0.00106 | <0.00114 | <0.000911 | <0.00107 | <0.00106 | <0.000867 | <0.00122 | <0.00106 | <0.00114 | <0.000992 | <0.0011 | <0.00112 | <0.000862 | <0.00103 | <0.000978 | <0.00106 | <0.00116 | <0.00071 | <0.00932 | <0.00114 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.00101 | <0.000737 | <0.000922 | <0.000912 | <0.000979 | <0.000783 | <0.000917 | <0.000912 | <0.000744 | <0.00105 | <0.000913 | <0.000981 | <0.000852 | <0.000945 | <0.000959 | <0.00074 | <0.000886 | <0.00084 | <0.000909 | <0.001 | <0.000696 | <0.00801 | <0.000977 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.00128 J3 | <0.00093 | <0.00116 | <0.00115 | <0.00124 | <0.000988 J3 | <0.00116 | <0.00115 J3 | <0.00094 | <0.00133 | <0.00115 | <0.00124 | <0.00108 | <0.00119 | <0.00121 | <0.000935 | <0.00112 | <0.00106 | <0.00115 | <0.00127 | <0.000879 | <0.0101 | <0.00123 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.000832 | <0.000606 | <0.000758 | <0.00075 | <0.000805 | <0.000644 | <0.000754 | <0.00075 | <0.000612 | <0.000865 | <0.000751 | <0.000807 | <0.000701 | <0.000778 | <0.000789 | <0.000609 | <0.000729 | <0.000691 | <0.000747 | <0.000825 | <0.000572 | <0.00659 | <0.000804 |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.00103 | <0.000748 | <0.000936 | <0.000928 | <0.000994 | <0.000794 | <0.000931 | <0.000925 | <0.000756 | <0.00107 | <0.000927 | <0.000996 | <0.000865 | <0.00096 | <0.000973 | <0.000752 | <0.000899 | <0.000852 | <0.000922 | <0.00102 | <0.000706 | <0.00813 | <0.000992 |
| 1,1-Dichloropropene | NS | NS | NS | <0.00137 | <0.000998 | <0.00125 | <0.00124 | <0.00133 | <0.00106 | <0.00124 | <0.00124 | <0.00101 | <0.00142 | <0.00124 | <0.00133 | <0.00116 | <0.00128 | <0.00129 | <0.001 | <0.0012 | <0.00114 | <0.00123 | <0.00136 | <0.000943 | <0.0108 | <0.00132 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.0124 | <0.00904 | <0.0113 | <0.0112 | <0.012 | <0.00961 | <0.0113 | <0.0112 | <0.00914 | <0.0129 | <0.0112 | <0.012 | <0.0105 | <0.0116 | <0.0118 | <0.00909 | <0.0109 | <0.0103 | <0.0112 | <0.0123 | <0.00854 | <0.0982 | <0.012 |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.00274 J4 | <0.002 | <0.0025 | <0.00247 | <0.00266 | <0.00212 J4 | <0.00249 | <0.00247 J4 | <0.00202 | <0.00285 | <0.00248 | <0.00265 | <0.00231 | <0.00257 | <0.0026 | <0.00201 | <0.0024 | <0.00228 | <0.00247 | <0.00272 | <0.00189 | <0.0218 | <0.00265 |
| 1,2,4-Trimethylbenzene | NS | NS | 2.0E+03 | <0.00267 | <0.00195 | <0.00244 | <0.00241 | <0.00259 | <0.00207 | <0.00243 | <0.00241 | <0.00197 | <0.00278 | <0.00242 | <0.0026 | <0.00226 | <0.0025 | <0.00254 | **0.0872** | <0.00234 | <0.00222 | <0.00241 | <0.00266 | <0.00184 | **0.0932** | **0.0198** |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.00746 | <0.00543 | <0.00679 | <0.00673 | <0.00721 | <0.00577 | <0.00676 J3 | <0.00672 | <0.00549 | <0.00775 | <0.00673 | <0.00722 | <0.00628 | <0.00697 | <0.00707 | <0.00546 | <0.00653 | <0.00619 | <0.0067 | <0.0074 | <0.00513 | <0.059 | <0.0072 |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | <0.00267 | <0.00195 | <0.00244 | <0.00241 | <0.00259 | <0.00207 | <0.00243 | <0.00241 | <0.00197 | <0.00278 | <0.00242 | <0.0026 | <0.00226 | <0.0025 | <0.00254 | **0.2354** | <0.00234 | **0.00758** | <0.00241 | <0.00266 | **0.00884** | <0.0211 | **0.0335** |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.00661 | <0.00481 | <0.00602 | <0.00598 | <0.00639 | <0.00511 | <0.00598 | <0.00598 | <0.00486 | <0.00687 | <0.00598 | <0.00641 | <0.00557 | <0.00618 | <0.00627 | <0.00484 | <0.00579 | <0.00549 | <0.00594 | <0.00655 | <0.00454 | <0.0523 | <0.00639 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.0011 | <0.0008 | <0.001 | <0.00099 | <0.00106 | <0.00085 | <0.00099 | <0.00099 | <0.00080 | <0.00114 | <0.00099 | <0.00106 | <0.000925 | <0.00103 | <0.00104 | <0.000804 | <0.000962 | <0.000912 | <0.000986 | <0.00109 | <0.000755 | <0.00868 | <0.00106 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.000719 | <0.000524 | <0.000655 | <0.000649 | <0.000697 | <0.000557 | <0.000653 | <0.000649 | <0.00053 | <0.000748 | <0.00065 | <0.000699 | <0.000607 | <0.000673 | <0.000683 | <0.000527 | <0.000631 | <0.000598 | <0.000647 | <0.000714 | <0.000495 | <0.0057 | <0.000695 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.0011 | <0.000801 | <0.001 | <0.000992 | <0.00106 | <0.000851 | <0.000997 | <0.000991 | <0.000809 | <0.00114 | <0.000992 | <0.00107 | <0.000927 | <0.00103 | <0.00104 | <0.000805 | <0.000953 | <0.000913 | <0.000988 | <0.00109 | <0.000756 | <0.0087 | <0.00106 |
| 1,2-Dichloropropane | 6.8E+01 | 4.4E+00 | — | <0.00241 | <0.00175 | <0.00219 | <0.00217 | <0.00233 | <0.00186 | <0.00218 | <0.00217 | <0.00177 | <0.0025 | <0.00217 | <0.00233 | <0.00203 | <0.00225 | <0.00228 | <0.00176 | <0.00211 | <0.002 | <0.00216 | <0.00239 | <0.00165 | <0.0191 | <0.00232 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | <0.00339 | <0.00247 | <0.00309 | <0.00306 | <0.00329 | <0.00262 | <0.00307 | <0.00305 | <0.00249 | <0.00352 | <0.00306 | <0.00329 | <0.00286 | <0.00317 | <0.00321 | **0.0187** | <0.00297 | <0.00281 | <0.00304 | <0.00338 | **0.00861** | <0.0268 | **0.028** |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.00102 | <0.00074 | <0.000926 | <0.000917 | <0.000984 | <0.000787 | <0.000922 | <0.000916 | <0.000748 | <0.00105 | <0.000917 | <0.000986 | <0.000857 | <0.00095 | <0.000964 | <0.000744 | <0.00089 | <0.000844 | <0.000913 | <0.00101 | <0.000699 | <0.00804 | <0.000982 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.000849 | <0.000618 | <0.000774 | <0.000765 | <0.000821 | <0.000657 | <0.00077 | <0.000765 | <0.000625 | <0.000882 | <0.000766 | <0.000823 | <0.000715 | <0.000793 | <0.000804 | <0.000621 | <0.000743 | <0.000705 | <0.000763 | <0.000842 | <0.000584 | <0.00672 | <0.00082 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.00119 | <0.000864 | <0.00108 | <0.00107 | <0.00115 | <0.000918 | <0.00108 | <0.00107 | <0.000873 | <0.00123 | <0.00107 | <0.00115 | <0.001 | <0.00111 | <0.00112 | <0.000868 | <0.00104 | <0.000985 | <0.00107 | <0.00118 | <0.000816 | <0.00938 | <0.00115 |
| 2,2-Dichloropropane | NS | NS | NS | <0.00234 | <0.0017 | <0.00213 | <0.00211 | <0.00226 | <0.00181 | <0.00212 | <0.00211 | <0.00172 | <0.00243 | <0.00211 | <0.00227 | <0.00197 | <0.00219 | <0.00222 | <0.00171 | <0.00205 | <0.00194 | <0.0021 | <0.00232 | <0.00161 | <0.0184 | <0.00225 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <0.108 J3 | <0.0784 | <0.098 | <0.0971 | <0.104 | <0.0832 J3 | <0.0976 | <0.097 J3 | <0.0792 J4 | <0.112 J4 | <0.0971 J4 | <0.104 J4 | <0.0937 J4 | <0.101 J4 | <0.102 | <0.0788 | <0.0942 | <0.0893 | <0.0967 | <0.107 | <0.074 | <0.851 | <0.104 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.00146 | <0.00107 | **0.0112** | <0.00132 | <0.00142 | <0.00113 | <0.00133 | <0.00132 | <0.00108 | <0.00152 | <0.00132 | <0.00142 | <0.00124 | <0.00137 | <0.00139 | <0.00107 | <0.00128 | <0.00122 | <0.00132 | <0.00145 | <0.00101 | <0.0116 | <0.00142 |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.0168** | **0.0175** | **0.0165** | **0.0164** | **0.017** | **0.0168** | **0.0171** | **0.0164** | **0.0188** | **0.017** | **0.0166** | **0.0171** | **0.017** | **0.0164** | **0.0163** | **0.0166** | **0.0168** | **0.0162** | **0.0162** | **0.0161** | **0.0166** | **0.0163** | **0.0161** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.000762 | <0.000555 | <0.000695 | <0.000688 | <0.000738 | <0.00059 | <0.000691 | <0.000687 | <0.000561 J4 | <0.000792 J4 | <0.000688 J4 | <0.00074 | <0.000643 J4 | <0.000713 | <0.000723 | <0.000558 | <0.000668 | <0.000633 | <0.000685 | <0.000756 | <0.000524 | <0.00603 | <0.000737 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.00387 | <0.00281 | <0.00352 | <0.00349 | <0.00374 | <0.00299 | <0.0035 | <0.00348 | <0.00284 | <0.00401 | <0.00349 | <0.00375 | <0.00326 | <0.00361 | <0.00367 | <0.00283 | <0.00338 | <0.00321 | <0.00347 | <0.00383 | <0.00266 | <0.0305 | <0.00373 |
| Acetone | 2.7E+05 | 6.7E+05 | — | <0.0618 J3J4 | <0.045 | <0.0564 | <0.0557 | <0.0598 | <0.0479 J3J4 | <0.0561 J3 | <0.0557 J3J4 | <0.0455 J4 | <0.0643 J4 | <0.0558 J4 | <0.06 J4 | <0.0521 J4 | <0.0578 J4 | <0.0586 | <0.0453 | <0.0542 | <0.0513 | <0.0556 | <0.0614 | <0.0425 | <0.489 | <0.0598 |
| Acrylonitrile | NS | NS | 1.1E+00 | <0.00511 | <0.0045 | <0.00557 | <0.00551 | <0.00592 | <0.00473 | <0.00555 | <0.00551 | <0.0045 | <0.00636 | <0.00552 | <0.00593 J4 | <0.00515 | <0.00572 J4 | <0.0058 | <0.00448 | <0.00536 | <0.00508 | <0.00555 | <0.00607 | <0.00421 | <0.0484 | <0.00592 |
| Benzene | 3.3E+01 | 1.4E+00 | — | <0.000791 | <0.000576 | <0.000721 | <0.000713 | <0.000766 | <0.000612 | <0.000717 | <0.000713 | <0.000582 | <0.000822 | <0.000714 | <0.000768 | <0.000667 | <0.00074 | <0.00075 | **0.00832** | <0.000693 | <0.000657 | <0.000711 | <0.000785 | **0.0085** | <0.00627 | **0.0188** |
| Bromobenzene | NS | NS | 1.8E+03 | <0.00152 | <0.00111 | <0.00139 | <0.00138 | <0.00148 | <0.00118 | <0.00138 | <0.00137 | <0.00112 | <0.00158 | <0.00138 | <0.00148 | <0.00129 | <0.00143 | <0.00145 | <0.00112 | <0.00134 | <0.00127 | <0.00137 | <0.00151 | <0.00105 | <0.0121 | <0.00147 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.00123 | <0.000895 | <0.00112 | <0.00111 | <0.00119 | <0.00095 | <0.00111 | <0.00111 | <0.000904 | <0.00128 | <0.00111 | <0.00119 | <0.00104 | <0.00115 | <0.00117 | <0.000899 | <0.00108 | <0.00102 | <0.0011 | <0.00122 | <0.000845 | <0.00972 | <0.00119 |
| Bromoform | 1.2E+03 | 8.6E+01 | — | <0.00198 | <0.00144 | <0.00181 | <0.00178 | <0.00192 | <0.00153 | <0.0018 | <0.00179 | <0.00146 | <0.00206 | <0.00179 | <0.00192 | <0.00167 | <0.00185 | <0.00188 | <0.00145 | <0.00174 | <0.00165 | <0.00178 | <0.00197 | <0.00136 | <0.0157 | <0.00191 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.00334 | <0.00243 | <0.00304 | <0.00301 | <0.00323 | <0.00258 | <0.00303 | <0.00301 | <0.00246 | <0.00347 | <0.00301 | <0.00324 | <0.00281 | <0.00312 | <0.00315 | <0.00244 | <0.00292 | <0.00277 | <0.003 | <0.00331 | <0.0023 | <0.0265 | <0.00323 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.00152 | <0.00111 | <0.00139 | <0.00137 | <0.00147 | <0.00118 | <0.00138 | <0.00137 | <0.00112 | <0.00158 | <0.00137 | <0.00148 | <0.00128 | <0.00142 | <0.00144 | <0.00111 | <0.00133 | <0.00126 | <0.00137 | <0.00151 | <0.00105 | <0.012 | <0.00147 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.000355 | <0.000259 | <0.000324 | <0.000321 | <0.000344 | <0.000275 | <0.000323 | <0.000321 | <0.000262 | <0.00037 | <0.000321 | <0.000345 | <0.0003 | <0.000333 | <0.000337 | <0.00026 | <0.000312 | <0.000295 | <0.00032 | <0.000353 | <0.000245 | <0.00282 | <0.000344 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.00104 | <0.000755 | <0.000945 | <0.000935 | <0.001 | <0.000802 | <0.00094 | <0.000935 | <0.000763 | <0.00108 | <0.000936 | <0.00101 | <0.000874 | <0.000969 | <0.000983 | <0.000759 | <0.000908 | <0.000861 | <0.000932 | <0.00103 | <0.000713 | <0.00821 | <0.001 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.00287 | <0.0021 | <0.00262 | <0.00259 | <0.00279 | <0.00223 | <0.00261 | <0.0026 | <0.00212 | <0.00299 | <0.0026 | <0.0028 | <0.00243 | <0.00269 | <0.00273 | <0.00211 | <0.00252 | <0.00239 | <0.00259 | <0.00286 | <0.00198 | <0.0228 | <0.00279 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.00174 | <0.00127 | <0.00159 | <0.00157 | <0.00169 | <0.00135 | <0.00158 | <0.00157 | <0.00128 | <0.00181 | <0.00157 | <0.00169 | <0.00147 | <0.00163 | <0.00165 | <0.00128 | <0.00153 | <0.00145 | <0.00157 | <0.00173 | <0.0012 | <0.0138 | <0.00169 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.00737 | <0.00537 | <0.00672 | <0.00665 | <0.00713 | <0.0057 | <0.00668 | <0.00664 | <0.00542 | <0.00756 | <0.00665 | <0.00715 | <0.00621 | <0.00689 | <0.00699 | <0.0054 | <0.00645 | <0.00612 | <0.00662 | <0.00731 | <0.00507 | <0.0583 | <0.00711 |
| cis-1,2-Dichloroethene | 7.8E+01 | 8.5E+01 | — | <0.00124 | <0.000905 | <0.00113 | <0.00112 | <0.0012 | <0.000962 | <0.00113 | <0.00112 | <0.000915 | <0.00129 | <0.00112 | <0.00121 | <0.00105 | <0.00116 | <0.00118 | <0.00091 | <0.00109 | <0.00103 | <0.00112 | <0.00123 | <0.000855 | <0.00984 | <0.0012 |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00128 | <0.000934 | <0.00117 | <0.00116 | <0.00124 | <0.000992 | <0.00116 | <0.00116 | <0.000944 | <0.00133 | <0.00116 | <0.00124 | <0.00108 | <0.0012 | <0.00121 | <0.000939 | <0.00112 | <0.00106 | <0.00115 | <0.00127 | <0.000882 | <0.0102 | <0.00124 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.00127 | <0.000925 | <0.00116 | <0.00115 | <0.00123 | <0.000983 | <0.00115 | <0.00115 | <0.000935 | <0.00132 | <0.00115 | <0.00123 | <0.00107 | <0.00119 | <0.00121 | <0.00093 | <0.00111 | <0.00106 | <0.00114 | <0.00126 | <0.000874 | <0.0101 | <0.00123 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.00272 | <0.00199 | <0.00249 | <0.00246 | <0.00264 | <0.00211 | <0.00247 | <0.00246 | <0.00201 | <0.00283 | <0.00246 | <0.00265 | <0.0023 | <0.00255 | <0.00259 | <0.002 | <0.00239 | <0.00226 | <0.00245 | <0.00271 | <0.00188 | <0.0216 | <0.00264 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.000694 | <0.000506 | <0.000633 | <0.000626 | <0.000672 | <0.000538 | <0.00063 | <0.000626 | <0.000511 | <0.000722 | <0.000627 | <0.000674 | <0.000585 | <0.000649 | <0.000658 | <0.000509 | <0.000608 | <0.000577 | <0.000624 | <0.000689 | <0.000478 | <0.0055 | <0.000671 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | <0.00125 | <0.000909 | <0.00114 | <0.00113 | <0.00121 | <0.000866 | <0.00113 | <0.00113 | <0.000919 | <0.0013 | <0.00113 | <0.00121 | <0.00105 | <0.00117 | **0.00822** | **0.0106** | <0.00109 | <0.00104 | <0.00112 | <0.00124 | **0.00371** | **0.0768** | **0.00716** |
| Hexachloro-1,3-butadiene | 1.2E+02 | 5.3E+00 | — | <0.0102 | <0.0074 | <0.00926 | <0.00917 | <0.00984 | <0.00787 | <0.00922 | <0.00916 | <0.00748 | <0.0105 | <0.00917 | <0.00986 J3 | <0.00857 | <0.0095 J3 | <0.00954 | <0.00744 | <0.0089 | <0.00844 | <0.00913 | <0.0101 | <0.00699 | <0.0804 | <0.00982 |
| Isopropylbenzene | NS | NS | NS | <0.000719 | <0.000524 | **0.00789** | <0.000649 | <0.000697 | <0.000557 | <0.000653 | <0.000649 | <0.00053 | <0.000748 | <0.00065 | <0.000699 | <0.000607 | <0.000673 | <0.000683 | **0.0068** | <0.000631 | <0.000598 | <0.000647 | <0.000714 | **0.00559** | **0.226** | **0.102** |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.000593 | <0.000432 | <0.00054 | <0.000535 | <0.000574 | <0.000459 | <0.000538 | <0.000534 | <0.000436 | <0.000616 | <0.000535 | <0.000575 | <0.0005 | <0.000554 | <0.000562 | <0.000434 | <0.000519 | <0.000492 | <0.000533 | <0.000588 | <0.000408 | <0.00469 | <0.000572 |
| Methylene Chloride | 4.9E+02 | 2.5E+01 | — | <0.0112 | <0.00819 | <0.0103 | <0.0101 | <0.0109 | <0.00871 | <0.0102 | <0.0101 | <0.00828 | <0.0117 | <0.0102 | <0.0109 | <0.00948 | <0.0105 | <0.0107 | <0.00824 | <0.00985 | <0.00934 | <0.0101 | <0.0112 | <0.00774 | <0.089 | <0.0109 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | <0.00827 | <0.00602 | <0.00754 | <0.00746 | <0.008 | <0.0054 | <0.0075 J3 | <0.00745 | <0.00609 J3 | <0.00859 J3 | <0.00746 J3 | <0.00802 | <0.00697 J3 | <0.00773 | <0.00784 | **0.0543** | <0.00724 | <0.00687 | <0.00743 | <0.0082 | <0.00569 | <0.0854 | <0.00799 |
| n-Butylbenzene | NS | NS | 5.8E+04 | <0.00888 | <0.00648 | <0.00811 | <0.00801 | <0.00868 | <0.00687 | <0.00807 | <0.00802 | <0.00655 | <0.00924 | <0.00803 | <0.00863 | <0.0075 | <0.00831 | <0.00844 | <0.00651 | <0.00779 | <0.00739 | <0.00799 | <0.00893 | <0.00612 | <0.0704 | **0.0758** |
| n-Propylbenzene | NS | NS | 2.4E+04 | <0.00161 | <0.00117 | <0.00147 | <0.00145 | <0.00156 | <0.00125 | <0.00146 | <0.00145 | <0.00118 | <0.00167 | <0.00145 | <0.00156 | <0.00135 | <0.0015 | <0.00152 | <0.00118 | <0.00141 | <0.00134 | <0.00145 | <0.0016 | <0.00111 | **0.167** | **0.306** |
| p-Isopropyltoluene | NS | NS | NS | <0.00432 | <0.00315 | <0.00394 | <0.00389 | <0.00418 | <0.00334 | <0.00392 | <0.00389 | <0.00318 | <0.00449 | <0.0039 | <0.00419 | <0.00364 | <0.0041 | **0.0108** | <0.00378 | <0.00359 | <0.00388 | <0.00429 | <0.00297 | <0.0342 | **0.0212** |
| sec-Butylbenzene | NS | NS | 1.2E+05 | <0.00488 | <0.00355 | <0.00445 | <0.0044 | <0.0047 | <0.00378 | <0.0044 | <0.0044 | <0.00359 | <0.00507 | <0.0044 | <0.00473 | <0.00411 | <0.00456 | <0.00463 | <0.00357 | <0.00427 | <0.00405 | <0.00438 | <0.00484 | <0.00336 | <0.0385 | **0.0561** |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.000388 | <0.000283 | <0.000354 | <0.00035 | <0.000375 | <0.0003 | <0.000352 | <0.00035 | <0.000286 | <0.000403 | <0.00035 | <0.000376 | <0.000327 | <0.000363 | <0.000368 | <0.000284 | <0.00034 | <0.000322 | <0.000349 | <0.000385 | <0.000267 | <0.00307 | <0.000374 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.00331 | <0.00241 | <0.00301 | <0.00298 | <0.0032 | <0.00256 | <0.003 | <0.00298 | <0.00243 | <0.00343 | <0.00298 | <0.0032 | <0.00278 | <0.00309 | <0.00313 | <0.00242 | <0.00289 | <0.00274 | <0.00297 | <0.00328 | <0.00227 | <0.0261 | <0.00319 |
| Tetrachloroethene | 3.3E+01 | 2.7E+00 | — | <0.00152 | <0.00111 | <0.00138 | <0.00137 | <0.00147 | <0.00117 | <0.00138 | <0.00137 | <0.00112 | <0.00158 | <0.00137 | <0.00147 | <0.00128 | <0.00142 | <0.00144 | **0.00474** | <0.00133 | **0.00778** | <0.00136 | <0.00151 | <0.00104 | <0.012 | <0.00147 |
| Toluene | 4.7E+03 | 5.3E+03 | — | <0.00221 | <0.0016 | <0.00201 | <0.00199 | <0.00213 | <0.0017 | <0.002 | <0.00199 | <0.00162 | <0.00229 | <0.00199 | <0.00213 | <0.00186 | <0.00206 | <0.00209 | **0.0296** | <0.00193 | <0.00183 | <0.00198 | <0.00219 | **0.00677** | **0.088** | **0.0238** |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.00176 | <0.00128 | <0.00161 | <0.00159 | <0.00171 | <0.00136 | <0.0016 | <0.00159 | <0.0013 | <0.00183 | <0.00159 | <0.00171 | <0.00148 | <0.00165 | <0.00167 | <0.00129 | <0.00154 | <0.00146 | <0.00158 | <0.00175 | <0.00121 | <0.0139 | <0.0017 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00193 | <0.00141 | <0.00176 | <0.00174 | <0.00187 | <0.00149 | <0.00175 | <0.00174 | <0.00142 | <0.00201 | <0.00174 | <0.00187 | <0.00163 | <0.00181 | <0.00183 | <0.00141 | <0.00169 | <0.0016 | <0.00174 | <0.00192 | <0.00133 | <0.0153 | <0.00185 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | <0.00089 | <0.000721 | <0.000902 | <0.000893 | <0.000957 | <0.000766 | <0.000897 | <0.000892 | <0.000728 | <0.00103 | <0.000893 | <0.00096 | <0.000834 | <0.000825 | <0.000939 | <0.000724 | <0.000867 | <0.000822 | <0.000889 | <0.000982 | <0.000681 | <0.00783 | <0.000956 |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.0014 | <0.00102 | <0.00128 | <0.00126 | <0.00136 | <0.00108 | <0.00127 | <0.00126 | <0.00103 | <0.00146 | <0.00126 | <0.00135 | <0.00118 | <0.00131 | <0.00133 | <0.00103 | <0.00123 | <0.00116 | <0.00126 | <0.00139 | <0.000964 | <0.0111 | <0.00135 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.00196 | <0.00143 | <0.00179 | <0.00177 | <0.0019 | <0.00152 | <0.0018 | <0.00177 | <0.00145 | <0.00204 | <0.00177 | <0.00191 | <0.00165 | <0.00184 | <0.00185 | <0.00144 | <0.00172 | <0.00163 | <0.00177 | <0.00195 | <0.00135 | <0.0156 | <0.0019 |
| Xylenes, Total | 2.4E+03 | 2.6E+03 | — | <0.00149 | <0.00109 | <0.00136 | <0.00135 | <0.00144 | <0.00115 | <0.00135 | <0.00134 | <0.0011 | <0.00155 | <0.00135 | <0.00144 | <0.00126 | <0.00139 | **0.0449** | **0.0696** | <0.00131 | **0.016** | <0.00134 | <0.00148 | **0.0568** | **0.3** | **0.0924** |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | GIBS-H1-1 | GIUC-B1-1 | GIUC-B1-1 | GIUC-B1-1 | GIUC-B1-1 | GIUC-B1-1 | GIUC-B4-1 | GIUC-B4-1 | GIUC-B4-1 | GIUC-B4-1 | GIUC-B4-1 | GIUC-B4-1 | GIUC-C1-1 | GIUC-C1-1 | GIUC-C1-1 | GIUC-C4-1 | GIUC-C4-1 | GIUC-C4-1 | GIUC-H4-1 | GIUC-H4-1 | GIUC-H4-1 | GIUC-H1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 5.0 | 2.0 | 3.0 | 4.0 | 5.0 | 8.0 | 10.0 | 2.0 | 3.0 | 4.0 | 5.0 | 8.0 | 10.0 | 2.0 | 5.0 | 10.0 | 2.0 | 5.0 | 10.0 | 2.0 | 4.0 | 5.0 | 2.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/30/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.9E+00 | — | <0.00152 | <0.0016 | <0.00115 | <0.00171 | <0.00175 | <0.0014 | <0.00146 | <0.00116 | <0.00134 | <0.0017 | <0.00132 | <0.00145 | <0.00153 | <0.00126 | <0.00145 | <0.00127 | <0.00143 | <0.00161 | <0.00144 | <0.00148 | <0.00129 | <0.00146 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.00148 | <0.00156 | <0.00112 | <0.00166 | <0.00171 | <0.00136 | <0.00143 | <0.00113 | <0.00129 | <0.00165 | <0.00129 | <0.00141 | <0.00149 | <0.00122 | <0.00141 | <0.00123 | <0.00139 | <0.00156 | <0.00141 | <0.00121 | <0.00144 | <0.00125 | <0.00142 |
| 1,1,2,2-Tetrachloroethane | 4.5E+01 | 2.7E+00 | — | <0.00111 | <0.00117 | <0.000841 | <0.00125 | <0.00129 | <0.00102 | <0.00107 | <0.000849 | <0.000975 | <0.00124 | <0.000975 | <0.00106 | <0.00112 | <0.000922 | <0.00106 | <0.000928 | <0.00105 | <0.00118 | <0.00106 | <0.000911 | <0.00109 | <0.000944 | <0.00107 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.000954 | <0.001 | <0.000722 | <0.00108 | <0.00111 | <0.000879 | <0.000922 | <0.00073 | <0.000837 | <0.00107 | <0.000837 | <0.000915 | <0.000964 | <0.000793 | <0.000913 | <0.000797 | <0.000901 | <0.00101 | <0.00091 | <0.000782 | <0.000932 | <0.000811 | <0.000921 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.00121 | <0.00127 | <0.000912 | <0.00135 | <0.0014 | <0.00111 | <0.00115 | <0.000922 | <0.00105 | <0.00135 | <0.00105 | <0.00115 | <0.00122 | <0.001 | <0.00115 | <0.00101 | <0.00114 | <0.00128 | <0.00115 | <0.000988 | <0.00118 | <0.00102 | <0.00115 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.000785 | <0.000825 | <0.000594 | <0.000885 | <0.00091 | <0.000723 | <0.000758 | <0.0006 | <0.000688 | <0.000878 | <0.000688 | <0.000752 | <0.000792 | <0.000652 | <0.000751 | <0.000655 | <0.000741 | **0.00859** | <0.000748 | <0.000643 | <0.000767 | <0.000657 | <0.000757 |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.000989 | <0.00102 | <0.000733 | <0.00109 | <0.00112 | <0.000892 | <0.000936 | <0.000741 | <0.000849 | <0.00108 | <0.000849 | <0.000929 | <0.000978 | <0.000804 | <0.000927 | <0.000809 | <0.000916 | <0.00103 | <0.000923 | <0.000794 | <0.000946 | <0.000823 | <0.000934 |
| 1,1-Dichloropropene | NS | NS | NS | <0.00129 | <0.00136 | <0.000979 | <0.00145 | <0.0015 | <0.00119 | <0.00125 | <0.000989 | <0.00113 | <0.00144 | <0.00113 | <0.00124 | <0.00131 | <0.00107 | <0.00124 | <0.00108 | <0.00122 | <0.00137 | <0.00123 | <0.00105 | <0.00126 | <0.0011 | <0.00125 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.0117 | <0.0123 R | <0.00887 R | <0.0132 | <0.0136 | <0.0108 | <0.0113 | <0.00896 | <0.0103 | <0.0131 | <0.0103 | <0.0112 | <0.0118 | <0.00973 | <0.0112 R | <0.00978 R | <0.0111 | <0.0124 | <0.0112 | <0.0095 | <0.0114 | <0.00996 | <0.0113 |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.00259 | <0.00272 | <0.00196 | <0.00292 | <0.003 | <0.00239 | <0.0025 | <0.00198 | <0.00227 | <0.00289 | <0.00227 | <0.00248 | <0.00261 | <0.00215 | <0.00248 | <0.00216 | <0.00245 | <0.00274 | <0.00247 | <0.00212 | <0.00253 | <0.0022 | <0.0025 |
| 1,2,4-Trimethylbenzene | NS | NS | 2.0E+03 | **0.00903** | <0.00265 J4 | <0.00191 J4 | <0.00285 | <0.00293 | <0.00233 | <0.00244 | <0.00193 | <0.00222 | <0.00283 | <0.00222 | <0.00242 | <0.00255 | <0.0021 | <0.00242 J4 | <0.00211 J4 | **0.0275** | <0.00268 | <0.00241 | <0.00207 | <0.00247 | <0.00215 | <0.00243 |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.00703 | <0.00739 R | <0.00532 R | <0.00793 | <0.00815 | <0.00648 | <0.00679 | <0.00538 | <0.00617 | <0.00787 | <0.00617 | <0.00674 | <0.0071 | <0.00584 | <0.00673 R | <0.00587 R | <0.00665 | <0.00745 | <0.00671 | <0.00577 | <0.00687 J3 | <0.00598 | <0.00678 |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | <0.00253 | <0.00265 J4 | <0.00191 J4 | **0.0112** | **0.00946** | <0.00233 | <0.00244 | <0.00193 | <0.00222 | <0.00283 | <0.00222 | <0.00242 | <0.00255 | <0.0021 | <0.00242 J4 | <0.00211 J4 | **0.0514 J4+** | <0.00268 | <0.00241 | <0.00207 | <0.00247 | <0.00215 | <0.00243 |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.00623 | <0.00655 | <0.00472 | <0.00703 | <0.00722 | <0.00574 | <0.00602 | <0.00477 | <0.00548 | <0.00698 | <0.00547 | <0.00598 | <0.00629 | <0.00518 | <0.00596 | <0.00521 | <0.00588 | <0.00661 | <0.00594 | <0.00511 | <0.00609 | <0.0053 | <0.00601 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.00104 | <0.00109 | <0.000784 | <0.00117 | <0.0012 | <0.000954 | <0.001 | <0.000792 | <0.000909 | <0.00116 | <0.000909 | <0.000993 | <0.00105 | <0.00086 | <0.000991 | <0.000865 | <0.000979 | <0.0011 | <0.000987 | <0.000849 | <0.00101 | <0.00088 | <0.000999 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.000679 | <0.000714 | <0.000514 | <0.000766 | <0.000788 | <0.000626 | <0.000656 | <0.000519 | <0.000596 | <0.00076 | <0.000596 | <0.000651 | <0.000686 | <0.000564 | <0.00065 | <0.000567 | <0.000642 | <0.00072 | <0.000648 | <0.000557 | <0.000664 | <0.000577 | <0.000655 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.00104 | <0.00109 | <0.000785 | <0.00117 | <0.0012 | <0.000956 | <0.001 | <0.000793 | <0.00091 | <0.00116 | <0.00091 | <0.000994 | <0.00105 | <0.000851 | <0.000992 | <0.000866 | <0.00098 | <0.0011 | <0.000989 | <0.00085 | <0.00101 | <0.000862 | <0.001 |
| 1,2-Dichloropropane | 6.6E+01 | 4.4E+00 | — | <0.00227 | <0.00239 | <0.00172 | <0.00256 | <0.00263 | <0.00209 | <0.00219 | <0.00174 | <0.002 | <0.00255 | <0.00199 | <0.00216 | <0.00229 | <0.00186 R | <0.00217 | <0.0019 | <0.00214 | <0.00241 | <0.00216 | <0.00185 | <0.00222 | <0.00193 | <0.00219 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | <0.0332 | <0.00336 J4R | <0.00242 J4R | <0.00361 | <0.00371 | <0.00295 | <0.00309 | <0.00244 | <0.0028 | <0.00358 | <0.0028 | <0.00306 | <0.00323 | <0.00265 | <0.00306 J4R | <0.00267 J4R | **0.0196 J4+** | <0.00339 | <0.00305 | <0.00262 | <0.00312 | <0.00272 | <0.00309 |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.000959 | <0.00101 | <0.000726 | <0.00108 | <0.00111 | <0.000884 | <0.000926 | <0.000733 | <0.000841 | <0.00107 | <0.000841 | <0.000919 | <0.000968 | <0.000796 | <0.000917 | <0.000801 | <0.000907 | <0.00102 | <0.000914 | <0.000786 | <0.000937 | <0.000815 | <0.000925 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.000801 | <0.000842 | <0.000606 | <0.000903 | <0.000928 | <0.000738 | <0.000774 | <0.000612 | <0.000702 | <0.000896 | <0.000702 | <0.000768 | <0.000809 | <0.000665 | <0.000766 | <0.000669 | <0.000757 | <0.000849 | <0.000763 | <0.000656 | <0.000782 | <0.000681 | <0.000772 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.00112 | <0.00118 | <0.000847 | <0.00126 | <0.0013 | <0.00103 | <0.00108 | <0.000856 | <0.000982 | <0.00125 | <0.000982 | <0.00107 | <0.00113 | <0.000929 | <0.00107 | <0.000934 | <0.00106 | <0.00119 | <0.00107 | <0.000917 | <0.00109 | <0.000951 | <0.00108 |
| 2,2-Dichloropropane | NS | NS | NS | <0.00221 | <0.00232 | <0.00167 | <0.00249 | <0.00255 | <0.00203 | <0.00213 | <0.00169 | <0.00194 | <0.00247 | <0.00193 | <0.00211 | <0.00223 | <0.00183 | <0.00211 | <0.00184 | <0.00208 | <0.00234 | <0.0021 | <0.00181 | <0.00216 | <0.00187 | <0.00213 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <0.102 | <0.107 | <0.0768 | <0.114 | <0.118 | <0.0935 | <0.098 | <0.0776 | <0.0891 | <0.114 | <0.0891 | <0.0973 | <0.102 | <0.0842 J4R | <0.0871 | <0.0848 | <0.0959 | <0.108 | <0.0968 | <0.0832 | <0.0982 | <0.0863 | <0.0979 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.00138 | <0.00146 | <0.00105 | <0.00155 | <0.0016 | <0.00127 | <0.00134 | <0.00106 | <0.00121 | <0.00155 | <0.00121 | <0.00133 | <0.0014 | <0.00115 | <0.00132 | <0.00115 | <0.0013 | <0.00147 | <0.00132 | <0.00113 | <0.00135 | <0.00118 | <0.00133 |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.017** | **0.0158** | **0.0159** | **0.0168** | **0.0165** | **0.017** | **0.0165** | **0.0164** | **0.0171** | **0.0162** | **0.0166** | **0.0166** | **0.0172** | **0.0167** | **0.018** | **0.0154** | **0.018** | **0.0166** | **0.0166** | **0.0151** | **0.0169** | **0.0156** | **0.0151** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.000719 | <0.000756 | <0.000544 | <0.000811 | <0.000834 | <0.000663 | <0.000695 | <0.00055 | <0.000632 | <0.000805 | <0.000631 | <0.00069 | <0.000726 | <0.000598 | <0.000688 | <0.000601 | <0.000681 | <0.000762 | <0.000686 | <0.00059 | <0.000703 | <0.000611 | <0.000694 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.00364 | <0.00383 | <0.00276 | <0.00411 | <0.00422 | <0.00336 | <0.00352 | <0.00279 | <0.0032 | <0.00408 | <0.00319 | <0.00349 | <0.00368 | <0.00302 | <0.00349 | <0.00304 | <0.00345 | <0.00386 | <0.00347 | <0.00299 | <0.00356 | <0.0031 | <0.00351 |
| Acetone | 2.7E+05 | 6.7E+05 | — | <0.0583 | <0.0614 | <0.0442 | <0.0658 | <0.0676 | <0.0538 | <0.0564 | <0.0446 | <0.0512 | <0.0652 | <0.0512 | <0.0559 | <0.0589 | <0.0485 J4R | <0.0558 | <0.0487 | <0.0551 | <0.0618 J3 | <0.0556 J3 | <0.0478 | <0.057 J3 | <0.0496 | <0.0562 |
| Acrylonitrile | NS | NS | 1.1E+00 | <0.00577 | <0.00607 | <0.00437 | <0.00651 | <0.00669 | <0.00532 | <0.00557 | <0.00441 | <0.00506 | <0.00645 | <0.00506 | <0.00553 | <0.00583 | <0.00479 | <0.00552 | <0.00482 | <0.00545 | <0.00611 | <0.0055 | <0.00473 | <0.00564 | <0.0049 | <0.00557 |
| Benzene | 3.3E+01 | 1.4E+00 | — | **0.0887** | <0.000785 | <0.000565 | <0.000842 | <0.000865 | <0.000688 | <0.000721 | <0.000571 | <0.000655 | <0.000835 | <0.000654 | <0.000716 | <0.000754 | <0.00062 | <0.000714 | <0.000623 | **0.0276** | **0.00173** | <0.000712 | <0.000612 | <0.000729 | <0.000634 | **0.00219** |
| Bromobenzene | NS | NS | 1.8E+03 | <0.00144 | <0.00151 | <0.00109 | <0.00162 | <0.00167 | <0.00133 | <0.00139 | <0.0011 | <0.00127 | <0.00162 | <0.00126 | <0.00138 | <0.00145 | <0.0012 | <0.00138 | <0.0012 | <0.00136 | <0.00152 | <0.00137 | <0.00118 | <0.00141 | <0.00122 | <0.00138 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.00116 | <0.00122 | <0.000877 | <0.00131 | <0.00134 | <0.00107 | <0.00112 | <0.000886 | <0.00102 | <0.0013 | <0.00102 | <0.00111 | <0.00117 | <0.000962 | <0.00111 | <0.000968 | <0.0011 | <0.00123 | <0.0011 | <0.00095 | <0.00113 | <0.000985 | <0.00112 |
| Bromoform | 1.2E+03 | 8.6E+01 | — | <0.00187 | <0.00197 | <0.00142 | <0.00211 | <0.00216 | <0.00172 | <0.00181 | <0.00143 | <0.00164 | <0.00209 | <0.00164 | <0.00179 | <0.00189 | <0.00156 | <0.00179 | <0.00156 | <0.00177 | <0.00198 | <0.00178 | <0.00153 | <0.00183 | <0.00159 | <0.00181 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.00315 | <0.00331 | <0.00238 | <0.00355 | <0.00365 | <0.0029 | <0.00304 | <0.00241 | <0.00276 | <0.00352 | <0.00277 | <0.00302 | <0.00318 | <0.00262 | <0.00301 | <0.00263 | <0.00297 | <0.00334 J3 | <0.003 J3 | <0.00258 | <0.00308 | <0.00268 | <0.00304 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.00144 | <0.00151 | <0.00109 | <0.00162 | <0.00166 | <0.00132 | <0.00139 | <0.0011 | <0.00126 | <0.0016 | <0.00126 | <0.00138 | <0.00145 | <0.00119 | <0.00137 | <0.0012 | <0.00136 | <0.00152 | <0.00137 | <0.00118 | <0.0014 | <0.00122 | <0.00138 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.000336 | <0.000353 | <0.000254 | <0.000379 | <0.00039 | <0.000309 | <0.000324 | <0.000257 | <0.000295 | <0.000375 | <0.000295 | <0.000322 | <0.000339 | <0.000279 | <0.000321 | <0.00028 | <0.000318 | <0.000356 | <0.00032 | <0.000275 | <0.000328 | <0.000285 | <0.000324 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.000978 | <0.00103 | <0.00074 | <0.0011 | <0.00113 | <0.000901 | <0.000945 | <0.000748 | <0.000858 | <0.00109 | <0.000858 | <0.000938 | <0.000988 | <0.000812 | <0.000936 | <0.000817 | <0.000925 | <0.00104 | <0.000933 | <0.000802 | <0.000956 | <0.000831 | <0.000943 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.00272 | <0.00286 | <0.00206 | <0.00306 | <0.00316 | <0.0025 | <0.00262 | <0.00208 | <0.00238 | <0.00303 | <0.00239 | <0.0026 | <0.00274 | <0.00226 | <0.0026 | <0.00227 | <0.00257 | <0.00288 | <0.00259 | <0.00223 | <0.00265 | <0.00231 | <0.00262 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.00165 | <0.00174 | <0.00125 | <0.00186 | <0.0019 | <0.00152 | <0.00159 | <0.00126 | <0.00145 | <0.00185 | <0.00144 | <0.00158 | <0.00166 | <0.00136 | <0.00157 | <0.00137 | <0.00156 | <0.00174 | <0.00157 | <0.00135 | <0.00161 | <0.0014 | <0.00158 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.00695 | <0.00731 | <0.00526 | <0.00784 | <0.00807 | <0.00641 | <0.00672 | <0.00532 | <0.0061 | <0.00778 | <0.0061 | <0.00667 | <0.00702 | <0.0057 | <0.00685 | <0.00581 | <0.00957 | <0.00737 | <0.00663 | <0.0057 | <0.00679 | <0.00591 | <0.00671 |
| cis-1,2-Dichloroethene | 7.8E+01 | 8.5E+01 | — | <0.00117 | <0.00123 | <0.000888 | <0.00132 | <0.00136 | <0.00108 | <0.00113 | <0.000897 | <0.00103 | <0.00131 | <0.00103 | <0.00112 | <0.00118 | <0.000974 | <0.00112 | <0.00098 | <0.00111 | **0.0159** | <0.0012 | <0.000962 | <0.00115 | <0.000997 | <0.00113 |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00121 | <0.00127 | <0.000916 | <0.00136 | <0.0014 | <0.00111 | <0.00117 | <0.000925 | <0.00106 | <0.00135 | <0.00106 | <0.00116 | <0.00122 | <0.001 | <0.00116 | <0.00101 | <0.00114 | <0.00128 | <0.00115 | <0.000992 | <0.00118 | <0.00103 | <0.00117 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.0012 | <0.00126 | <0.000907 | <0.00135 | <0.00139 | <0.0011 | <0.00116 | <0.000917 | <0.00105 | <0.00134 | <0.00105 | <0.00115 | <0.00121 | <0.000996 | <0.00115 | <0.001 | <0.00113 | <0.00127 | <0.00114 | <0.000983 | <0.00117 | <0.00102 | <0.00116 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.00257 | <0.00271 | <0.00195 | <0.0029 | <0.00299 | <0.00237 | <0.00249 | <0.00197 | <0.00226 | <0.00288 | <0.00226 | <0.00247 | <0.0026 | <0.00213 | <0.00246 | <0.00215 | <0.00243 | <0.00273 J3 | <0.00245 J3 | <0.00211 | <0.00251 | <0.00219 | <0.00248 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.000655 | <0.000689 | <0.000496 | <0.000739 | <0.00076 | <0.000604 | <0.000633 | <0.000501 | <0.000576 | <0.000734 | <0.000575 | <0.000628 | <0.000662 | <0.000545 | <0.000627 | <0.000547 | <0.00062 | <0.000694 | <0.000625 | <0.000537 | <0.00064 | <0.000557 | <0.000632 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | **0.00638** | <0.00124 | <0.000892 | <0.00133 | <0.00137 | <0.00109 | <0.00114 | <0.000901 | <0.00103 | <0.00132 | <0.00103 | <0.00113 | <0.00119 | <0.000978 | <0.00113 | <0.000984 | **0.0232** | <0.00125 | <0.00112 | <0.000966 | <0.00115 | <0.001 | <0.00114 |
| Hexachloro-1,3-butadiene | 1.2E+02 | 5.3E+00 | — | <0.00858 | <0.0101 | <0.00726 | <0.0108 | <0.0111 | <0.00884 | <0.00926 | <0.00733 | <0.00841 | <0.0107 | <0.00841 | <0.00919 | <0.00968 | <0.00796 | <0.00917 | <0.00801 | <0.00907 | <0.0102 J3 | <0.00914 J3 | <0.00786 | <0.00937 | <0.00815 | <0.00925 |
| Isopropylbenzene | NS | NS | NS | **0.109** | <0.000714 | <0.000514 | <0.000766 | <0.000788 | <0.000626 | <0.000656 | <0.000519 | <0.000596 | <0.00076 | <0.000596 | <0.000651 | <0.000686 | <0.000564 | <0.00065 | <0.000567 | **0.0373** | **0.0357** | <0.000648 | <0.000557 | <0.000664 | <0.000577 | <0.000655 |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.000559 | <0.000588 | <0.000423 | <0.000631 | <0.000649 | <0.000515 | <0.00054 | <0.000428 | <0.000491 | <0.000627 | <0.000491 | <0.000536 | <0.000565 | <0.000465 | <0.000535 | <0.000467 | <0.000528 | <0.000593 | <0.000533 | <0.000459 | <0.000547 | <0.000475 | <0.000539 |
| Methylene Chloride | 4.9E+02 | 2.6E+01 | — | <0.0106 | <0.0112 | <0.00803 | <0.012 | <0.0123 | <0.00978 | <0.0103 | <0.00812 | <0.00931 | <0.0119 | <0.00931 | <0.0102 | <0.0107 | <0.00881 | <0.0102 | <0.00886 | <0.01 | <0.0112 | <0.0101 | <0.0087 | <0.0104 | <0.00902 | <0.0102 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | **0.0766** | <0.00819 | <0.0059 | <0.0088 | <0.00904 | <0.00719 | <0.00753 | <0.00596 | <0.00684 | <0.00873 | <0.00684 | <0.00748 | <0.00788 | <0.00647 | <0.00746 | <0.00651 | **0.0737** | <0.00827 | <0.00744 | <0.00639 | <0.00752 J3 | <0.00663 | <0.00752 |
| n-Butylbenzene | NS | NS | 5.8E+04 | **0.145** | <0.00882 | <0.00635 | <0.00946 | <0.00973 | <0.00773 | <0.00811 | <0.00642 | <0.00736 | <0.00938 | <0.00736 | <0.00804 | <0.00847 | <0.00697 | <0.00803 | <0.00701 | <0.00793 | <0.00889 | <0.008 | <0.00688 | <0.0082 | <0.00713 | <0.00809 |
| n-Propylbenzene | NS | NS | 2.4E+04 | **0.323** | <0.0016 | <0.00115 | <0.00171 | <0.00177 | <0.0014 | <0.00147 | <0.00116 | <0.00134 | <0.0017 | <0.00134 | <0.00146 | <0.00153 | <0.00126 | <0.00145 | <0.00127 | **0.00783** | <0.0016 | <0.00145 | <0.00124 | <0.00148 | <0.00129 | <0.00146 |
| p-Isopropyltoluene | NS | NS | NS | **0.0121** | <0.00429 | <0.00309 | <0.0046 | <0.00472 | <0.00376 | <0.00394 | <0.00312 | <0.00358 | <0.00456 | <0.00357 | <0.00391 | <0.00412 | <0.00338 | <0.0039 | <0.0034 | **0.0254** | <0.00432 | <0.00389 | <0.00334 | <0.00398 | <0.00346 | <0.00393 |
| sec-Butylbenzene | NS | NS | 1.2E+05 | **0.0564** | <0.00483 | <0.00348 | <0.00518 | <0.00534 | <0.00424 | <0.00445 | <0.00352 | <0.00404 | <0.00515 | <0.00404 | <0.00441 | <0.00465 | <0.00382 | <0.0044 | <0.00384 | <0.00435 | <0.00488 | <0.00439 | <0.00377 | <0.0045 | <0.00391 | <0.00444 |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.000366 | <0.000385 | <0.000277 | <0.000413 | <0.000424 | <0.000337 | <0.000354 | <0.00028 | <0.000321 | <0.000409 | <0.000321 | <0.000351 | <0.00037 | <0.000303 | <0.00035 | <0.000306 | <0.000346 | <0.000388 | <0.000349 | <0.0003 | <0.000358 | <0.000311 | <0.000353 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.00312 | <0.00328 | <0.00236 | <0.00352 | <0.00362 | <0.00287 | <0.00301 | <0.00238 | <0.00274 | <0.00349 | <0.00274 | <0.00299 | <0.00315 | <0.00258 | <0.00298 | <0.0026 | <0.00294 | <0.0033 | <0.00297 | <0.00256 | <0.00305 | <0.00265 | <0.003 |
| Tetrachloroethene | 3.3E+01 | 2.7E+00 | — | <0.00143 | <0.0015 | <0.00108 | <0.00162 | <0.00166 | <0.00132 | <0.00138 | <0.0011 | <0.00126 | <0.0016 | <0.00126 | <0.00137 | <0.00145 | <0.00119 | <0.00137 | <0.0012 | <0.00136 | <0.00152 | <0.00137 | <0.00118 | <0.0014 | <0.00122 | <0.00138 |
| Toluene | 4.7E+03 | 5.3E+03 | — | **0.00918** | <0.00218 | <0.00157 | <0.00234 | <0.0024 | <0.00191 | <0.00201 | <0.00159 | <0.00183 | **0.0113** | <0.00182 | <0.00199 | <0.0021 | <0.00172 | <0.00199 | <0.00174 | **0.0018** | <0.0022 | <0.00198 | <0.0017 | <0.00203 | <0.00177 | <0.00201 |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.00166 | <0.00175 | <0.00126 | <0.00187 | <0.00192 | <0.00153 | <0.00161 | <0.00127 | <0.00146 | <0.00186 | <0.00145 | <0.00159 | <0.00168 | <0.00138 | <0.00159 | <0.00139 | <0.00158 | <0.00176 | <0.00158 | <0.00136 | <0.00162 | <0.00141 | <0.00161 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00182 | <0.00192 | <0.00138 | <0.00206 | <0.00211 | <0.00168 | <0.00176 | <0.00139 | <0.0016 | <0.00205 | <0.0016 | <0.00175 | <0.00184 | <0.00151 | <0.00174 | <0.00152 | <0.00172 | <0.00193 | <0.00174 | <0.00149 | <0.00178 | <0.00155 | <0.00175 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | <0.000933 | <0.000982 | <0.000707 | <0.00105 | <0.00108 | <0.00086 | <0.000902 | <0.000714 | <0.000819 | <0.00104 | <0.000819 | <0.000895 | <0.000943 | <0.000775 | <0.000893 | <0.00078 | <0.000882 | **0.00644** | <0.00089 | <0.000765 | <0.000912 | <0.000793 | <0.0009 |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.00132 | <0.00139 | <0.001 | <0.00149 | <0.00153 | <0.00122 | <0.00128 | <0.00101 | <0.00116 | <0.00147 | <0.00116 | <0.00127 | <0.00133 | <0.0011 R | <0.00126 | <0.0011 | <0.00125 | <0.0014 | <0.00126 | <0.00108 | <0.00129 | <0.00112 | <0.00127 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.00185 | <0.00194 | <0.0014 | <0.00208 | <0.00215 | <0.00171 | <0.00179 | <0.00142 | <0.00163 | <0.00207 | <0.00162 | <0.00178 | <0.00187 | <0.00153 | <0.00177 | <0.00155 | <0.00176 | <0.00196 J3 | <0.00177 J3 | <0.00152 | <0.00161 | <0.00158 | <0.00179 |
| Xylenes, Total | 2.4E+03 | 2.6E+03 | — | **0.0301** | <0.00147 | <0.00106 | **0.0123** | <0.00163 | <0.0013 | <0.00136 | <0.00108 | <0.00123 | <0.00157 | <0.00123 | <0.00135 | <0.00142 | <0.00117 | <0.00135 | <0.00117 | **0.141** | <0.00149 | <0.00134 | <0.00115 | <0.00137 | <0.0012 | <0.00136 |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligram's per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | GAUC-H-1 | GAUC-I1-1 | GAUC-H-1 | GAUC-I1-1 | GAUC-I2-1 | GAUC-I2-1 | GAUC-I2-1 | GAUC-I2-1 | GAUC-I3-1 | GAUC-I3-1 | GAUC-I3-1 | GAUC-I3-1 | GAUC-I3-1 | GAUC-I4-1 | GAUC-I4-1 | GAUC-I4-1 | GAUC-I4-1 | GAUC-I4-1 | G-A1-1 | G-A1-1 | G-A1-1 | G-B2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 4.0 | 5.0 | 8.0 | 10.0 | 2.0 | 4.0 | 5.0 | 8.0 | 10.0 | 2.0 | 4.0 | 5.0 | 8.0 | 10.0 | 2.0 | 4.0 | 5.0 | 8.0 | 10.0 | 2.0 | 3.0 | 5.0 | 2.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/20/2024 | 5/30/2024 | 5/21/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.9E+00 | — | <0.00172 | <0.00159 | <0.0014 | <0.00118 | <0.00116 | <0.002 | <0.0016 | <0.00156 | <0.00138 | <0.00148 | <0.00154 | <0.00134 | <0.00163 | <0.00162 | <0.00114 | <0.00143 | <0.0014 | <0.00145 | <0.0017 | <0.00117 | <0.00127 | <0.00139 | <0.00112 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.00167 | <0.00155 | <0.00136 | <0.00115 | <0.00113 | <0.00195 | <0.00156 | <0.00152 | <0.00135 | <0.00144 | <0.00151 | <0.00131 | <0.00158 | <0.00158 | <0.00111 | <0.00139 | <0.00136 | <0.00141 | <0.00166 | <0.00114 | <0.00123 | <0.00136 | <0.00109 |
| 1,1,2,2-Tetrachloroethane | 4.5E+01 | 2.7E+00 | — | <0.00126 | <0.00116 | <0.00102 | <0.000865 | <0.000852 | <0.00146 | <0.00117 | <0.00114 | <0.00101 | <0.00108 | <0.00113 | <0.000985 | <0.00119 | <0.00119 | <0.000837 | <0.00105 | <0.00102 | <0.00106 | <0.00125 | <0.000861 | <0.000931 | <0.00102 | <0.000819 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.00108 | <0.001 | <0.00088 | <0.000744 | <0.000732 | <0.00126 | <0.00101 | <0.00098 | <0.000871 | <0.000931 | <0.00097 | <0.000845 | <0.00102 | <0.00102 | <0.000719 | <0.000901 | <0.000879 | <0.000914 | <0.00107 | <0.000739 | <0.0008 | <0.000878 | <0.000704 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.00137 | <0.00125 | <0.00111 | <0.00094 | <0.000924 | <0.0016 | <0.00127 | <0.00124 | <0.001 | <0.00118 | <0.00122 | <0.00107 | <0.00129 | <0.00129 | <0.000908 J3 | <0.00114 | <0.00111 J3 | <0.00115 | <0.00135 J3 | <0.000934 | <0.00101 | <0.001111 | <0.000889 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.000992 | <0.000823 | <0.000724 | <0.000612 | <0.000602 | <0.00103 | <0.000828 | <0.000808 | <0.000717 | <0.000765 | <0.000797 | <0.000685 | <0.000842 | <0.00084 | <0.000591 | <0.000741 | <0.000723 | <0.000752 | <0.000881 | <0.000608 | <0.000658 | <0.000722 | <0.000579 |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.0011 | <0.00102 | <0.000894 | <0.000755 | <0.000743 | <0.00128 | <0.00102 | <0.000995 | <0.000885 | <0.000945 | <0.000985 | <0.000859 | <0.00104 | <0.00104 | <0.000729 | <0.000914 | <0.000892 | <0.000928 | <0.00109 | <0.000751 | <0.000812 | <0.000891 | <0.000714 |
| 1,1-Dichloropropene | NS | NS | NS | <0.00147 | <0.00136 | <0.00119 | <0.00101 | <0.000992 | <0.0017 | <0.00135 | <0.00133 | <0.00118 | <0.00126 | <0.00131 | <0.00115 | <0.00139 | <0.00138 | <0.000974 | <0.00122 | <0.00119 | <0.00124 | <0.00145 | <0.001 | <0.00108 | <0.00119 | <0.000954 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.0133 | <0.0123 | <0.0108 | <0.00914 | <0.00899 | <0.0154 | <0.0124 | <0.012 | <0.0107 | <0.0114 | <0.0119 | <0.0104 | <0.0126 | <0.0125 | <0.00882 | <0.0111 | <0.0108 | <0.0112 | <0.0132 | <0.00908 | <0.00982 | <0.0108 | <0.00864 R |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.00294 | <0.00271 | <0.00239 | <0.00202 | <0.00199 | <0.00341 | <0.00273 | <0.00266 | <0.00236 | <0.00253 | <0.00263 | <0.0023 | <0.00278 | <0.00277 | <0.00195 J4 | <0.00244 | <0.00239 J4 | <0.00248 | <0.00291 J4 | <0.00201 | <0.00217 | <0.00238 | <0.00191 |
| 1,2,3-Trimethylbenzene | NS | NS | 2.0E+03 | <0.00287 | <0.00265 | <0.00233 | <0.00197 | <0.00194 | <0.00333 | <0.00265 | <0.00259 | <0.00231 | <0.00246 | <0.00257 | <0.00224 | <0.00271 | <0.0027 | <0.0019 | **0.0228** | <0.00233 | <0.00242 | <0.00284 | <0.00196 | <0.00212 | <0.00232 | <0.00186 J4 |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.00789 | <0.00737 | <0.00649 | <0.00549 | <0.00539 | <0.00926 J3 | <0.00742 | <0.00722 J3 | <0.00642 | <0.00685 | <0.00715 J3 | <0.00624 | <0.00754 J3 | <0.00753 | <0.0053 | <0.00664 J3 | <0.00648 | <0.00674 J3 | <0.0079 | <0.00545 | <0.0059 | <0.00647 | <0.00518 R |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | <0.00287 | <0.00265 | <0.00233 | <0.00197 | <0.00194 | <0.00333 | <0.00266 | <0.00259 | <0.00231 | <0.00246 | <0.00257 | <0.00224 | <0.00271 | <0.0027 | <0.0019 | **0.0868** | <0.00233 | <0.00242 | <0.00284 | <0.00196 | <0.00212 | <0.00232 | <0.00186 J4 |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.00708 | <0.00654 | <0.00575 | <0.00486 | <0.00478 | <0.00821 | <0.00658 | <0.0064 | <0.00569 | <0.00608 | <0.00633 | <0.00553 | <0.00669 | <0.00667 | <0.00469 | <0.00588 | <0.00574 | <0.00597 | <0.007 | <0.00483 | <0.00523 | <0.00574 | <0.0046 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.00118 | <0.00109 | <0.000955 | <0.000808 | <0.000794 | <0.00136 | <0.00109 | <0.00106 | <0.000946 | <0.00101 | <0.00105 | <0.000918 | <0.00111 | <0.00111 | <0.00078 | <0.000977 | <0.000954 | <0.000992 | <0.00116 | <0.000803 | <0.000868 | <0.000953 | <0.000764 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.000772 | <0.000712 | <0.000627 | <0.00053 | <0.000521 | <0.000895 | <0.000717 | <0.000698 | <0.00062 | <0.000663 | <0.000691 | <0.000602 | <0.000729 | <0.000727 | <0.000512 | **0.0225** | <0.000626 | <0.000651 | <0.000763 | <0.000526 | <0.00057 | <0.000625 | <0.000501 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.00118 | <0.00109 | <0.000957 | <0.000809 | <0.000796 | <0.00137 | <0.00109 | <0.00107 | <0.000947 | <0.00101 | <0.00105 | <0.00092 | <0.00111 | <0.00111 | <0.000781 | <0.000979 | <0.000956 | <0.000993 | <0.00117 | <0.000804 | <0.00087 | <0.000955 | <0.000765 |
| 1,2-Dichloropropane | 6.8E+01 | 4.4E+00 | — | <0.00258 | <0.00238 | <0.00209 | <0.00177 | <0.00174 | <0.00299 | <0.00239 | <0.00233 | <0.00207 | <0.00221 | <0.0023 | <0.00201 | <0.00243 | <0.00243 | <0.00171 | <0.00214 | <0.00209 | <0.00217 | <0.00255 | <0.00176 | <0.0019 | <0.00209 | <0.00167 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | <0.00363 | <0.00335 | <0.00295 | <0.00249 | <0.00245 | <0.00421 | <0.00337 | <0.00328 | <0.00292 | <0.00312 | <0.00325 | <0.00283 | <0.00343 | <0.00342 | <0.00241 | <0.00293 | <0.00296 | <0.00306 | <0.00359 | <0.00248 | <0.00268 | <0.00294 | <0.00236 J4R |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.00109 | <0.00101 | <0.000885 | <0.000748 | <0.000736 | <0.00126 | <0.00101 | <0.000985 | <0.000876 | <0.000936 | <0.000974 | <0.0085 | <0.00103 | <0.00103 | <0.000722 | <0.000905 | <0.000883 | <0.000918 | <0.00108 | <0.000743 | <0.000804 | <0.000883 | <0.000707 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.00091 | <0.00084 | <0.000739 | <0.000625 | <0.000614 | <0.00106 | <0.000845 | <0.000822 | <0.000731 | <0.000781 | <0.000813 | <0.00071 | <0.000859 | <0.000857 | <0.000603 | <0.000756 | <0.000738 | <0.000767 | <0.000899 | <0.000621 | <0.000671 | <0.000737 | <0.000591 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.00127 | <0.00117 | <0.00103 | <0.000873 | <0.000858 | <0.00147 | <0.00118 | <0.00115 | <0.00102 | <0.00109 | <0.00114 | <0.000992 | <0.0012 | <0.0012 | <0.000843 | **0.0175** | <0.00103 | <0.00107 | <0.00126 | <0.000867 | <0.000938 | <0.00103 | <0.000825 |
| 2,2-Dichloropropane | NS | NS | NS | <0.00251 | <0.00231 | <0.00203 | <0.00172 | <0.00169 | <0.00291 | <0.00233 | <0.00227 | <0.00201 | <0.00215 | <0.00224 | <0.00196 | <0.00237 | <0.00236 | <0.00166 | <0.00208 | <0.00203 | <0.00211 | <0.00248 | <0.00171 | <0.00184 | <0.00203 | <0.00163 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <0.115 | <0.106 | <0.0936 | <0.0792 | <0.0778 | <0.134 | <0.107 | <0.104 | <0.0927 | <0.099 | <0.103 | <0.09 | <0.109 | <0.108 | <0.0764 J3 | <0.0958 | <0.0935 J3 | <0.0972 | <0.114 J3 | <0.0787 J4 | <0.0851 J4 | <0.0834 J4 | <0.0748 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.00157 | <0.00145 | <0.00128 | <0.00108 | <0.00106 | <0.00183 | <0.00146 | <0.00142 | <0.00126 | <0.00135 | <0.00141 | <0.00123 | <0.00148 | <0.00148 | <0.00104 | <0.0013 | <0.00127 | <0.00132 | <0.00155 | <0.00107 | <0.00116 | <0.00127 | <0.00102 |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.0164** | **0.017** | **0.0163** | **0.0167** | **0.0158** | **0.0168** | **0.0162** | **0.0172** | **0.0153** | **0.017** | **0.0169** | **0.0167** | **0.0166** | **0.017** | **0.018** | **0.0171** | **0.0165** | **0.017** | **0.0167** | **0.0167** | **0.0167** | **0.0169** | **0.016** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.000617 | <0.000754 | <0.000664 | <0.000561 | <0.000552 | <0.000948 | <0.000759 | <0.000739 | <0.000657 | <0.000702 | <0.000731 | <0.000638 | <0.000772 | <0.00077 | <0.000542 | <0.000679 | <0.000663 | <0.000689 | <0.000808 | <0.000557 J4 | <0.000503 J4 | <0.000652 J4 | <0.00053 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.00414 | <0.00382 | <0.00336 | <0.00284 | <0.0028 | <0.0048 | <0.00385 | <0.00374 | <0.00333 | <0.00356 | <0.00371 | <0.00323 | <0.00391 | <0.0039 | <0.00274 | <0.00344 | <0.00336 | <0.00349 | <0.00409 | <0.00282 | <0.00306 | <0.00335 | <0.00269 |
| Acetone | 2.7E+05 | 6.7E+05 | — | <0.0563 | <0.0512 | <0.0538 | <0.0455 | <0.0447 | <0.0768 J3 | <0.0616 | <0.0599 J3 | <0.0533 | <0.0569 | <0.0592 J3 | <0.0517 | <0.0626 J3 | <0.0625 | <0.0439 J3,J4 | <0.0551 J3 | <0.0537 J3,J4 | <0.0559 J3 | <0.0655 J3,J4 | <0.0452 J4 | <0.0489 J4 | <0.0537 J4 | <0.043 |
| Acrylonitrile | NS | NS | 1.1E+00 | <0.00656 | <0.00605 | <0.00532 | <0.0045 | <0.00443 | <0.00761 | <0.00609 | <0.00593 | <0.00527 | <0.00563 | <0.00586 | <0.00512 | <0.00619 | <0.00618 | <0.00435 | <0.00545 | <0.00532 | <0.00553 | <0.00648 | <0.00447 | <0.00484 | <0.00531 | <0.00425 |
| Benzene | 3.3E+01 | 1.4E+00 | — | <0.000848 | <0.000783 | <0.000689 | <0.000582 | <0.000572 | <0.000984 | <0.000788 | <0.000767 | <0.000682 | <0.000728 | <0.000758 | <0.000662 | <0.000801 | <0.000799 | <0.000562 | **0.00241** | <0.000588 | <0.000715 | <0.000838 | <0.000578 | <0.000625 | <0.000687 | <0.00055 |
| Bromobenzene | NS | NS | 1.8E+03 | <0.00164 | <0.00151 | <0.00133 | <0.00112 | <0.0011 | <0.00189 | <0.00152 | <0.00148 | <0.00131 | <0.0014 | <0.00146 | <0.00128 | <0.00154 | <0.00154 | <0.00108 | <0.00136 | <0.00133 | <0.00139 | <0.00162 | <0.00111 | <0.00121 | <0.00132 | <0.00106 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.00132 | <0.00121 | <0.00107 | <0.000904 | <0.000889 | <0.00153 | <0.00122 | <0.00119 | <0.00105 | <0.00113 | <0.00118 | <0.00103 | <0.00124 | <0.00124 | <0.000873 | <0.00109 | <0.00107 | <0.00111 | <0.0013 | <0.000898 | <0.000972 | <0.00107 | <0.000855 |
| Bromoform | 1.2E+03 | 8.0E+01 | — | <0.00212 | <0.00196 | <0.0173 | <0.00146 | <0.00143 | <0.00246 | <0.00197 | <0.00192 | <0.00171 | <0.00182 | <0.0019 | <0.00166 | <0.00201 | <0.002 | <0.00141 | <0.00176 | <0.00172 | <0.00179 | <0.0021 | <0.00145 | <0.00156 | <0.00172 | <0.00138 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.00358 | <0.0033 | <0.0029 | <0.00246 | <0.00241 | <0.00415 | <0.00332 | <0.00323 | <0.00288 | <0.00307 | <0.0032 | <0.00279 | <0.00338 | <0.00337 | <0.00237 | <0.00297 | <0.0029 | <0.00302 | <0.00354 | <0.00244 | <0.00264 | <0.0029 | <0.00232 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.00164 | <0.0015 | <0.00132 | <0.00112 | <0.0011 | <0.00189 | <0.00151 | <0.00147 | <0.00131 | <0.0014 | <0.00146 | <0.00127 | <0.00154 | <0.00154 | <0.00109 | <0.00135 | <0.00132 | <0.00137 | <0.00161 | <0.00111 | <0.0012 | <0.00132 | <0.00106 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.000381 | <0.000352 | <0.00031 | <0.000262 | <0.000257 | <0.000443 | <0.000354 | <0.000345 | <0.000307 | <0.000327 | <0.000341 | <0.000298 | <0.00036 | <0.000359 | <0.000253 | <0.000317 | <0.000309 | <0.000321 | <0.000377 | <0.00026 | <0.000281 | <0.000309 | <0.000248 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.00111 | <0.00103 | <0.000902 | <0.000763 | <0.00075 | <0.00129 | <0.00103 | <0.001 | <0.000893 | <0.000954 | <0.000994 | <0.000867 | <0.00105 | <0.00105 | <0.000737 | <0.000923 | <0.000901 | <0.000937 | <0.0011 | <0.000758 | <0.00082 | <0.0009 | <0.000721 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.00308 | <0.00285 | <0.00251 | <0.00212 | <0.00208 | <0.00358 | <0.00287 | <0.00279 | <0.00248 | <0.00265 | <0.00276 | <0.00241 | <0.00291 | <0.00291 | <0.00205 | <0.00256 | <0.0025 | <0.0026 | <0.00305 | <0.00211 | <0.00228 | <0.0025 | <0.002 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.00186 | <0.00173 | <0.00152 | <0.00128 | <0.00126 | <0.00217 | <0.00174 | <0.00169 | <0.0015 | <0.00161 | <0.00167 | <0.00146 | <0.00177 | <0.00176 | <0.00124 | <0.00155 | <0.00152 | <0.00158 | <0.00185 | <0.00128 | <0.00137 | <0.00152 | <0.00121 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.0079 | <0.00729 | <0.00641 | <0.00542 | <0.00533 | <0.00917 | <0.00734 | <0.00714 | <0.00635 | <0.00678 | <0.00707 | <0.00517 | <0.00746 | <0.00744 | <0.00524 | <0.00656 | <0.0064 | <0.00666 | <0.00781 | <0.00539 | <0.00583 | <0.0064 | <0.00513 |
| cis-1,2-Dichloroethene | 7.8E+01 | 8.5E+01 | — | <0.00133 | <0.00123 | <0.00108 | <0.000915 | <0.0009 | <0.00155 | <0.00124 | <0.0012 | <0.00107 | <0.00114 | <0.00119 | <0.00104 | <0.00126 | <0.00126 | <0.000884 | <0.00111 | <0.00108 | <0.00112 | <0.00132 | **0.018** | **0.011** | **0.0143** | <0.000855 |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00138 | <0.00127 | <0.00112 | <0.000944 | <0.000928 | <0.0016 | <0.00128 | <0.00124 | <0.00111 | <0.00118 | <0.00123 | <0.00107 | <0.0013 | <0.0013 | <0.000911 | <0.00114 | <0.00111 | <0.00116 | <0.00135 | <0.00938 | <0.00101 | <0.00111 | <0.000892 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.00136 | <0.00126 | <0.00111 | <0.000935 | <0.000919 | <0.00158 | <0.00126 | <0.00123 | <0.00109 | <0.00117 | <0.00122 | <0.00105 | <0.00129 | <0.00128 | <0.000903 | <0.00113 | <0.0011 | <0.00115 | <0.00135 | <0.00929 | <0.001 | <0.0011 | <0.000884 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.00292 | <0.0027 | <0.00237 | <0.00201 | <0.00197 | <0.00339 | <0.00272 | <0.00264 | <0.00235 | <0.00251 | <0.00261 | <0.00228 | <0.00276 | <0.00275 | <0.00194 | <0.00243 | <0.00237 | <0.00245 | <0.00289 | <0.00199 | <0.00216 | <0.00237 | <0.0019 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.000744 | <0.000687 | <0.000605 | <0.000511 | <0.000503 | <0.000864 | <0.000691 | <0.000673 | <0.000598 | <0.000639 | <0.000666 | <0.000581 | <0.000703 | <0.000702 | <0.000494 | <0.000618 | <0.000604 | <0.000628 | <0.000736 | <0.000508 | <0.000549 | <0.000603 | <0.000483 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | <0.00134 | <0.00123 | <0.00109 | <0.000919 | <0.000903 | <0.00155 | <0.00124 | <0.00121 | <0.00108 | <0.00115 | <0.0012 | <0.00104 | <0.00126 | <0.00126 | <0.000887 | **0.00674** | <0.00109 | <0.00113 | <0.00132 | <0.000913 | <0.000987 | <0.00108 | <0.000869 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | — | <0.0109 | <0.0101 | <0.00885 | <0.00748 | <0.00736 | <0.0126 | <0.0101 | <0.00985 | <0.00876 | <0.00936 | <0.00974 | <0.0085 | <0.0103 | <0.0103 | <0.00722 | <0.00905 | <0.00883 | <0.00918 | <0.0108 | <0.00743 | <0.00804 | <0.00883 | <0.00707 |
| Isopropylbenzene | NS | NS | NS | <0.000772 | <0.000712 | <0.000627 | <0.00053 | <0.000521 | <0.000895 | <0.000717 | <0.000698 | <0.00062 | <0.000663 | <0.000691 | <0.000602 | <0.000729 | <0.000727 | <0.000512 | <0.000641 | <0.000626 | <0.000651 | <0.000763 | <0.000526 | <0.00057 | <0.000625 | <0.000501 |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.000536 | <0.000586 | <0.000516 | <0.000435 | <0.000429 | <0.000737 | <0.00059 | <0.000575 | <0.000511 | <0.000546 | <0.000568 | <0.000496 | <0.0006 | <0.000599 | <0.000421 | <0.000528 | <0.000515 | <0.000536 | <0.000628 | <0.000434 | <0.000469 | <0.000515 | <0.000413 |
| Methylene Chloride | 4.9E+02 | 2.5E+01 | — | <0.0121 | <0.0111 | <0.00979 | <0.00828 | <0.00814 | <0.014 | <0.0112 | <0.0109 | <0.00969 | <0.0104 | <0.0108 | <0.00941 | <0.0114 | <0.0114 | <0.00799 | <0.01 | <0.00978 | <0.0102 | <0.0119 | <0.00822 | <0.0089 | <0.00977 | <0.00783 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | <0.00887 | <0.00818 | <0.0072 | <0.00608 | <0.00598 | <0.0103 J3 | <0.00823 | <0.00801 J3 | <0.00712 | **0.0644** | <0.00793 J3 | <0.00692 | <0.00837 J3 | <0.00835 | **0.0185** | **0.03 J3** | <0.00719 | <0.00747 J3 | <0.00876 | <0.00604 J3 | <0.00653 J3 | <0.00718 J3 | <0.00575 |
| n-Butylbenzene | NS | NS | 5.8E+04 | <0.00954 | <0.0088 | <0.00774 | <0.00654 | <0.00644 | <0.0111 | <0.00885 | <0.00862 | <0.00766 | <0.00819 | <0.00853 | <0.00744 | <0.00932 | <0.009 | <0.00698 | <0.00832 | <0.00792 | <0.0073 | <0.00804 | <0.00542 | <0.0065 | <0.00704 | <0.00772 | <0.00619 |
| n-Propylbenzene | NS | NS | 2.4E+04 | <0.00172 | <0.00159 | <0.0014 | <0.00118 | <0.00116 | <0.002 | <0.0016 | <0.00156 | <0.00139 | <0.00148 | <0.00155 | <0.00135 | <0.00163 | <0.00163 | <0.00114 | **0.014** | <0.0014 | <0.00145 | <0.00171 | <0.00118 | <0.00127 | <0.0014 | <0.00112 |
| p-Isopropyltoluene | NS | NS | NS | <0.00464 | <0.00427 | <0.00376 | <0.00318 | <0.00313 | <0.00538 | <0.0043 | <0.00419 | <0.00372 | <0.00398 | <0.00415 | <0.00361 | <0.00437 | <0.00436 | <0.00307 | <0.00385 | <0.00375 | <0.0039 | <0.00458 | <0.00316 | <0.00342 | <0.00375 | <0.00301 |
| sec-Butylbenzene | NS | NS | 1.2E+05 | <0.00524 | <0.00483 | <0.00425 | <0.00359 | <0.00353 | <0.00607 | <0.00486 | <0.00473 | <0.0042 | <0.0049 | <0.00468 | <0.00408 | <0.00494 | <0.00493 | <0.00347 | <0.00434 | <0.00424 | <0.00441 | <0.00517 | <0.00357 | <0.00385 | <0.00424 | <0.00339 |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.000415 | <0.000384 | <0.000338 | <0.000285 | <0.000281 | <0.000482 | <0.000386 | <0.000376 | <0.000334 | <0.000357 | <0.000372 | <0.000325 | <0.000393 | <0.000392 | <0.000276 | <0.000345 | <0.000337 | <0.000351 | <0.000411 | <0.000284 | <0.000307 | <0.000337 | <0.00027 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.00354 | <0.00327 | <0.00288 | <0.00243 | <0.00239 | <0.00411 | <0.00329 | <0.0032 | <0.00285 | <0.00304 | <0.00317 | <0.00276 | <0.00334 | <0.00334 | <0.00235 | <0.00294 | <0.00287 | <0.00299 | <0.0035 | <0.00242 | <0.00261 | <0.00287 | <0.0023 |
| Tetrachloroethene | 3.3E+01 | 2.7E+00 | — | <0.00162 | <0.0015 | <0.00132 | <0.00112 | <0.0011 | <0.00189 | <0.00151 | <0.00147 | <0.00131 | <0.0014 | <0.00146 | <0.00127 | <0.00154 | <0.00153 | <0.00108 | <0.00135 | <0.00132 | <0.00137 | <0.00161 | <0.00111 | <0.0012 | <0.00132 | <0.00106 |
| Toluene | 4.7E+03 | 5.3E+03 | — | **0.0103** | <0.00218 | <0.00192 | <0.00162 | <0.00159 | <0.00274 | <0.00219 | <0.00213 | <0.0019 | <0.00203 | <0.00211 | <0.00184 | <0.00223 | <0.00222 | <0.00156 | **0.0119** | <0.00191 | <0.00199 | <0.00233 | <0.00161 | <0.00174 | <0.00191 | <0.00153 |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.00168 | <0.00174 | <0.00153 | <0.0013 | <0.00127 | <0.00218 | <0.00175 | <0.00171 | <0.00152 | <0.00162 | <0.00168 | <0.00147 | <0.00178 | <0.00178 | <0.00125 | <0.00157 | <0.00153 | <0.00159 | <0.00187 | **0.0198** | **0.00854** | **0.0113** | <0.00123 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00208 | <0.00191 | <0.00168 | <0.00142 | <0.0014 | <0.0024 | <0.00192 | <0.00187 | <0.00166 | <0.00178 | <0.00185 | <0.00162 | <0.00195 | <0.00195 | <0.00137 | <0.00172 | <0.00168 | <0.00175 | <0.00205 | <0.00141 | <0.00153 | <0.00168 | <0.00134 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | <0.00106 | <0.000979 | <0.000861 | <0.000728 | <0.000716 | <0.00123 | <0.000985 | <0.000959 | <0.000852 | <0.000911 | <0.000948 | <0.000828 | <0.001 | <0.001 | <0.000699 | <0.000703 | <0.000881 | <0.00086 | <0.000894 | <0.00105 | **0.0114** | **0.0102** | **0.00771** | <0.000688 |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.0015 | <0.00139 | <0.00122 | <0.00103 | <0.00101 | <0.00174 | <0.00139 | <0.00136 | <0.00121 | <0.00129 | <0.00134 | <0.00117 | <0.00142 | <0.00141 | <0.000996 | <0.00125 | <0.00122 | <0.00127 | <0.00148 | <0.00102 | <0.00111 | <0.00122 | <0.000975 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.00211 | <0.00194 | <0.00171 | <0.00145 | <0.00142 | <0.00245 | <0.00195 | <0.0019 | <0.00169 | <0.00181 | <0.00184 | <0.00164 | <0.00198 | <0.00198 | <0.0014 | <0.00175 | <0.00171 | <0.00178 | <0.00208 | <0.00144 | <0.00155 | <0.00171 | <0.00137 |
| Xylenes, Total | 2.4E+03 | 2.6E+03 | — | **0.0185** | <0.00147 | <0.0013 | <0.0011 | <0.00108 | <0.00186 | <0.00148 | <0.00144 | <0.00128 | **0.012** | <0.00143 | <0.00125 | <0.00151 | <0.00151 | <0.00106 | **0.0837** | <0.0013 | <0.00135 | <0.00158 | <0.00109 | <0.00118 | <0.00129 | <0.00104 |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | G-B3-1 | G-B3-1 | G-B3-1 | G-B3-1 | G-B3-1 | G-C3-1 | G-C3-1 | G-C3-1 | G-C3-1 | G-C3-1 | G-C3-1 | G-D1-1 | G-D1-1 | G-D1-1 | G-D2-1 | G-D2-1 | G-D2-1 | G-D3-1 | G-D3-1 | G-D3-1 | G-D3-1 | G-E1-1 | G-E1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 3.0 | 5.0 | 2.0 | 3.0 | 4.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/22/2024 | 5/22/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.5E+00 | — | <0.00113 | <0.00144 | <0.00121 | <0.0015 | <0.00119 | <0.00161 | <0.00113 | <0.00107 | <0.00151 | <0.00137 | <0.00107 | <0.00177 | <0.00116 | <0.0107 | <0.00129 | <0.00134 | <0.00115 | <0.00119 | <0.00139 | <0.00139 | <0.00173 | <0.00125 | <0.00132 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.0011 | <0.0014 | <0.00118 | <0.00146 | <0.00116 | <0.00157 | <0.0011 | <0.00104 | <0.00147 | <0.00134 | <0.00104 | <0.00172 | <0.00113 | <0.0105 | <0.00126 | <0.00131 | <0.00112 | <0.00116 | <0.00136 | <0.00135 | <0.00169 | <0.00122 | <0.00128 |
| 1,1,2,2-Tetrachloroethane | 4.5E+01 | 2.7E+00 | — | <0.000829 | <0.00106 | <0.000889 | <0.0011 | <0.000872 | <0.00118 | <0.00083 | <0.000784 | <0.00111 | <0.00101 | <0.000787 | <0.0013 | <0.000851 | <0.00788 | <0.000947 | <0.000984 | <0.000841 | <0.00087 | <0.00102 | <0.00102 | <0.00127 | <0.00092 | <0.000966 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.000712 | <0.000906 | <0.000764 | <0.000945 | <0.000749 | <0.00102 | <0.000713 | <0.000674 | <0.000953 | <0.000865 | <0.000676 | <0.00111 | <0.000731 | <0.00678 | <0.000813 | <0.000845 | <0.000722 | <0.000747 | <0.000878 | <0.000875 | <0.00109 | <0.00079 | <0.00083 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.000888 | <0.00115 | <0.000955 | <0.00118 | <0.000946 | <0.00128 | <0.0009 | <0.000851 | <0.0012 | <0.00109 | <0.000854 | <0.00141 | <0.000923 | <0.00855 | <0.00103 | <0.00107 | <0.000912 | <0.000944 | <0.00111 | <0.00111 | <0.00138 | <0.000998 | <0.00105 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.000586 | <0.000747 | <0.000628 | <0.000777 | <0.000616 | <0.000836 | <0.000586 | <0.000554 | <0.000784 | <0.000711 | <0.000558 | <0.000915 | <0.000601 | <0.00557 | <0.000669 | <0.000695 | <0.000594 | <0.000615 | <0.000722 | <0.00072 | **0.00919** | <0.00065 | <0.000693 |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.000723 | <0.000922 | <0.000775 | <0.00096 | <0.00076 | <0.00103 | <0.000723 | <0.000684 | <0.000967 | <0.000878 | <0.000688 | <0.00113 | <0.000742 | <0.00688 | <0.000826 | <0.000858 | <0.000733 | <0.000759 | <0.000891 | <0.000889 | <0.00111 | <0.000802 | <0.000843 |
| 1,1-Dichloropropene | NS | NS | NS | <0.000965 | <0.00123 | <0.0004 | <0.00128 | <0.00101 | <0.00138 | <0.000965 | <0.000913 | <0.00129 | <0.00117 | <0.000916 | <0.00151 | <0.000991 | <0.00917 | <0.0011 | <0.00115 | <0.000979 | <0.00101 | <0.00119 | <0.00119 | <0.00148 | <0.00107 | <0.00112 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.00874 R | <0.0111 | <0.00938 R | <0.0116 R | <0.00919 | <0.0125 R | <0.00875 R | <0.00827 | <0.0117 R | <0.0106 R | <0.0083 | <0.0137 | <0.00898 | <0.0831 | <0.00999 | <0.0104 | <0.00887 | <0.00918 | <0.0108 | <0.0107 | <0.0134 | <0.0097 | <0.0102 |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.00193 | <0.00246 | <0.00207 | <0.00257 | <0.00203 | <0.00276 | <0.00193 | <0.00183 | <0.00259 | <0.00235 | <0.00183 | <0.00301 | <0.00198 | <0.0184 | <0.00221 | <0.00229 | <0.00196 | <0.00203 | <0.00238 | <0.00238 | <0.00297 | <0.00214 | <0.00225 |
| 1,2,4-Trimethylbenzene | NS | NS | 2.0E+03 | <0.00188 J4 | <0.0024 | <0.00202 J4 | <0.0025 J4 | <0.00198 | <0.00269 J4 | <0.00188 J4 | <0.00178 | <0.00252 J4 | <0.00229 J4 | <0.00179 | <0.00295 | <0.00193 | <0.0179 | <0.00215 | **0.0477** | <0.00191 | <0.00198 | <0.00232 | <0.00232 | **0.0356** | <0.00208 | <0.0022 |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.00523 R | <0.00669 | <0.00563 R | <0.00697 R | <0.00552 | <0.00749 R | <0.00525 R | <0.00496 | <0.00702 R | <0.00637 R | <0.00498 | <0.0082 | <0.00539 | <0.0499 | <0.006 | <0.00623 | <0.00532 | <0.00551 | <0.00647 | <0.00645 | <0.00805 | <0.00582 | <0.00612 |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | <0.00188 J4 | <0.0024 | <0.00202 J4 | <0.0025 J4 | <0.00198 | <0.00269 J4 | <0.00188 J4 | <0.00178 | <0.00252 J4 | <0.00229 J4 | <0.00179 | <0.00295 | <0.00193 | <0.0179 | <0.00215 | **0.0354** | <0.00191 | <0.00198 | <0.00232 | <0.00232 | **0.0768** | <0.00208 | <0.0022 |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.00465 | <0.00593 | <0.00499 | <0.00618 | <0.00489 | <0.00664 | <0.00465 | <0.0044 | <0.00623 | <0.00565 | <0.00441 | <0.00727 | <0.00478 | <0.0442 | <0.00531 | <0.00552 | <0.00472 | <0.00488 | <0.00573 | <0.00572 | <0.00714 | <0.00516 | <0.00542 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.000773 | <0.000986 | <0.000829 | <0.00103 | <0.000813 | <0.0011 | <0.000773 | <0.000731 | <0.00103 | <0.000939 | <0.000734 | <0.00121 | <0.000793 | <0.00734 | <0.000883 | <0.000917 | <0.000784 | <0.00081 | <0.000953 | <0.00095 | <0.00118 | <0.000858 | <0.000901 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.000507 | <0.000646 | <0.000544 | <0.000673 | <0.000533 | <0.000723 | <0.000507 | <0.00048 | <0.000679 | <0.000616 | <0.000481 | <0.000792 | <0.00052 | <0.00482 | <0.000579 | <0.000602 | <0.000514 | <0.000532 | <0.000625 | <0.000623 | <0.000777 | <0.000563 | <0.000591 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.000774 | <0.000987 | <0.000831 | <0.00103 | <0.000814 | <0.0011 | <0.000775 | <0.000732 | <0.00104 | <0.00094 | <0.000735 | <0.00121 | <0.000795 | <0.00736 | <0.000884 | <0.000919 | <0.000785 | <0.000813 | <0.000954 | <0.000952 | <0.00119 | <0.000859 | <0.000902 |
| 1,2-Dichloropropane | 6.8E+01 | 4.4E+00 | — | <0.00169 | <0.00216 | <0.00182 | <0.00225 | <0.00178 | <0.00242 | <0.00169 | <0.0016 R | <0.00227 | <0.00206 | <0.00161 | <0.00264 J4R | <0.00174 | <0.0162 | <0.00193 | <0.00201 | <0.00172 | <0.00178 | <0.00209 | <0.00208 | <0.00259 | <0.00188 | <0.00197 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | <0.00239 J4R | <0.00304 | <0.00256 J4R | <0.00317 J4R | <0.00251 | <0.0034 J4R | <0.00239 J4R | <0.00226 | <0.00319 J4R | <0.00229 J4R | <0.00226 | <0.00373 | <0.00245 | <0.0227 | <0.00273 | **0.00843** | <0.00242 | <0.0025 | <0.00294 | <0.00293 | **0.0303** | <0.00265 | <0.00278 |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.000716 | <0.000913 | <0.000768 | <0.00095 | <0.000753 | <0.00102 | <0.000716 | <0.000677 | <0.000958 | <0.000869 | <0.000679 | <0.00112 | <0.000735 | <0.0068 | <0.000818 | <0.000849 | <0.000726 | <0.000751 | <0.000882 | <0.0008 | <0.0011 | <0.000794 | <0.000834 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.000598 | <0.000762 | <0.000641 | <0.000793 | <0.000628 | <0.000853 | <0.000598 | <0.000565 | <0.0008 | <0.000726 | <0.000567 | <0.000933 | <0.000613 | <0.00568 | <0.000683 | <0.000709 | <0.000606 | <0.000627 | <0.000737 | <0.000735 | <0.000916 | <0.000663 | <0.000697 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.000835 | <0.00105 | <0.000896 | <0.00111 | <0.000878 | <0.00119 | <0.000836 | <0.00079 | <0.00112 | <0.00101 | <0.000792 | <0.0013 | <0.000857 | <0.00794 | <0.000954 | <0.000991 | <0.000847 | <0.000876 | <0.00103 | <0.00103 | <0.00128 | <0.000927 | <0.000973 |
| 2,2-Dichloropropane | NS | NS | NS | <0.00165 | <0.0021 | <0.00177 | <0.00219 | <0.00173 | <0.00235 | <0.00165 | <0.00156 | <0.0022 | <0.002 | <0.00158 | <0.00258 | <0.00168 J3 | <0.0156 J3 | <0.00188 J3 | <0.00185 J3 | <0.00167 J3 | <0.00173 J3 | <0.00203 J3 | <0.00202 J3 | <0.00252 J3 | <0.00183 | <0.00192 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <0.0757 | <0.0986 | <0.0813 | <0.101 | <0.0797 | <0.108 | <0.0758 | <0.0716 J4R | <0.101 | <0.092 | <0.0719 | <0.118 J4R | <0.0778 | <0.72 | <0.0865 | <0.0899 | <0.0768 | <0.0795 | <0.0934 | <0.0931 | <0.116 | <0.0841 | <0.0883 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.00103 | <0.00132 | <0.00111 | <0.00137 | <0.00109 | <0.00147 | <0.00103 | <0.000976 | <0.00138 | <0.00125 | <0.000979 | <0.00161 | <0.00106 | <0.00981 | <0.00118 | <0.00122 | <0.00105 | <0.00108 | <0.00127 | <0.00127 | <0.00158 | <0.00115 | <0.0012 |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.0156** | **0.0169** | **0.0157** | **0.0168** | **0.0166** | **0.0154** | **0.0168** | **0.0168** | **0.0154** | **0.0157** | **0.017** | **0.0166** | **0.0165** | **0.0169** | **0.018** | **0.0178** | **0.0169** | **0.0168** | **0.0163** | **0.0163** | **0.0165** | **0.0167** | **0.0165** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.000537 | <0.000684 | <0.000576 | <0.000713 | <0.000564 | <0.000766 | <0.000537 | <0.000508 | <0.000718 | <0.000652 | <0.000509 | <0.000839 | <0.000551 | <0.0051 | <0.000613 | <0.000637 | <0.000544 | <0.000563 | <0.000662 | <0.00066 | <0.000823 | <0.000596 | <0.000626 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.00272 | <0.00347 | <0.00292 | <0.00361 | <0.00286 | <0.00388 | <0.00272 | <0.00257 | <0.00364 | <0.0033 | <0.00258 | <0.00425 | <0.00279 | <0.0258 | <0.00311 | <0.00323 | <0.00276 | <0.00285 | <0.00335 | <0.00334 | <0.00417 | <0.00302 | <0.00317 |
| Acetone | 2.7E+05 | 6.7E+05 | — | <0.0435 | <0.0555 | <0.0467 | <0.0578 | <0.0458 | <0.0621 | <0.0436 | <0.0412 J4R | <0.0583 | <0.0529 | <0.0413 | <0.068 J4R | <0.0447 | <0.414 | <0.0497 | <0.0517 | <0.0442 | <0.0457 | <0.0537 | <0.0535 | <0.0668 | <0.0483 J3 | <0.0507 J3 |
| Acrylonitrile | NS | NS | 1.1E+00 | <0.00431 | <0.00549 | <0.00462 | <0.00572 | <0.00453 | <0.00614 | <0.00431 | <0.00407 | <0.00576 | <0.00523 | <0.00408 | <0.00672 | <0.00442 | <0.041 | <0.00492 | <0.00511 | <0.00437 | <0.00452 | <0.00531 | <0.00529 | <0.00661 | <0.00478 | <0.00502 |
| Benzene | 3.3E+01 | 1.4E+00 | — | <0.000557 | <0.00071 | <0.000598 | <0.000739 | <0.000586 | <0.000795 | <0.000557 | <0.000527 | <0.000746 | <0.000677 | <0.000528 | **0.00321** | <0.000572 | <0.0053 | <0.000636 | **0.00815** | **0.00381** | <0.000585 | **0.00272** | <0.000685 | **0.0402** | <0.000618 | <0.000649 |
| Bromobenzene | NS | NS | 1.8E+03 | <0.00107 | <0.00137 | <0.00115 | <0.00143 | <0.00113 | <0.00153 | <0.00107 | <0.00102 | <0.00144 | <0.0013 | <0.00102 | <0.00168 | <0.0011 | <0.0102 | <0.00123 | <0.00127 | <0.00109 | <0.00113 | <0.00132 | <0.00132 | <0.00165 | <0.00119 | <0.00125 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.000865 | <0.0011 | <0.000928 | <0.00115 | <0.000909 | <0.00123 | <0.000865 | <0.000818 | <0.00116 | <0.00105 | <0.000821 | <0.00135 | <0.000888 | <0.00822 | <0.000988 | <0.00103 | <0.000877 | <0.000908 | <0.00107 | <0.00106 | <0.00133 | <0.00096 | <0.00101 |
| Bromoform | 1.2E+03 | 8.0E+01 | — | <0.0014 | <0.00178 | <0.0015 | <0.00185 | <0.00147 | <0.00199 | <0.0014 | <0.00132 | <0.00187 | <0.0017 | <0.00132 | <0.00217 | <0.00143 | <0.0133 | <0.00159 | <0.00166 | <0.00142 | <0.00146 | <0.00172 | <0.00172 | <0.00213 | <0.00155 | <0.00163 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.00235 | <0.003 | <0.00252 | <0.00312 | <0.00247 | <0.00335 | <0.00235 | <0.00222 | <0.00315 | <0.00285 | <0.00223 | <0.00368 | <0.00241 | <0.0224 | <0.00268 | <0.00279 | <0.00238 | <0.00247 | <0.0029 | <0.00289 | <0.0036 | <0.00261 J3 | <0.00274 J3 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.00107 | <0.00137 | <0.00115 | <0.00142 | <0.00113 | <0.00153 | <0.00107 | <0.00101 | <0.00143 | <0.0013 | <0.00102 | <0.00168 | <0.0011 | <0.0102 | <0.00122 | <0.00127 | <0.00109 | <0.00113 | <0.00132 | <0.00132 | <0.00165 | <0.00119 | <0.00125 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.00025 | <0.000319 | <0.000269 | <0.000333 | <0.000263 | <0.00357 | <0.000251 | <0.000237 | <0.000335 | <0.000304 | <0.000238 | <0.000391 | <0.000257 | <0.00238 | **0.00862** | <0.000297 | <0.000254 | <0.000263 | <0.000309 | <0.000308 | **0.00538** | <0.000278 | <0.000292 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.00073 | <0.000931 | <0.000783 | <0.000969 | <0.000768 | <0.00104 | <0.00073 | <0.00069 | <0.000977 | <0.000887 | <0.000693 | <0.00114 | <0.000749 | <0.00695 | <0.000834 | <0.000866 | <0.00074 | <0.000766 | <0.0009 | <0.000897 | <0.00112 | <0.00081 | <0.000851 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.00203 | <0.00259 | <0.00218 | <0.00269 | <0.00213 | <0.00289 | <0.00203 | <0.00192 | <0.00271 | <0.00246 | <0.00192 | <0.00317 | <0.00208 | <0.0193 | <0.00232 | <0.00241 | <0.00206 | <0.00213 | <0.0025 | <0.00249 | <0.0031 | <0.00225 | <0.00236 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.00123 | <0.00157 | <0.00132 | <0.00163 | <0.00129 | <0.00175 | <0.00123 | <0.00116 | <0.00164 | <0.00149 | <0.00117 | <0.00193 | <0.00126 | <0.0117 | <0.0014 | <0.00146 | <0.00125 | <0.00129 | <0.00151 | <0.00151 | <0.00188 | <0.00136 | <0.00143 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.00519 | <0.00662 | <0.00557 | <0.00689 | <0.00546 | <0.0074 | <0.00519 | <0.00491 | <0.00694 | <0.0063 | <0.00492 | <0.00811 | <0.00533 | <0.0493 | <0.00593 | <0.00616 | <0.00526 | <0.00545 | <0.0064 | <0.00636 | <0.00795 | <0.00576 | <0.00605 |
| cis-1,2-Dichloroethene | 7.8E+01 | 8.5E+01 | — | <0.000875 | <0.00112 | <0.000939 | <0.00116 | <0.000921 | <0.00125 | <0.000876 | <0.000828 | <0.00117 | <0.00106 | <0.000831 | <0.00137 | <0.000893 | <0.0832 | <0.001 | <0.00104 | <0.000885 | <0.000919 | <0.00108 | <0.00108 | <0.00134 | <0.000972 | <0.00102 |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.000903 | <0.00115 | <0.000969 | <0.0012 | <0.00095 | <0.00129 | <0.000904 | <0.000854 | <0.00121 | <0.0011 | <0.000857 | <0.00141 | <0.000927 | <0.00859 | <0.00103 | <0.00107 | <0.000916 | <0.000948 | <0.00111 | <0.00111 | <0.00138 | <0.001 | <0.00105 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.000895 | <0.00114 | <0.00096 | <0.00119 | <0.000941 | <0.00128 | <0.000895 | <0.000846 | <0.0012 | <0.00109 | <0.000849 | <0.0014 | <0.000918 | <0.00851 | <0.00102 | <0.00106 | <0.000907 | <0.000939 | <0.0011 | <0.0011 | <0.00137 | <0.000993 | <0.00104 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.00192 | <0.00245 | <0.00206 | <0.00255 | <0.00202 | <0.00274 | <0.00192 | <0.00182 | <0.00257 | <0.00233 | <0.00182 | <0.003 | <0.00197 | <0.0183 | <0.00219 | <0.00228 | <0.00195 | <0.00202 | <0.00237 | <0.00235 | <0.00295 | <0.00213 J3 | <0.00224 J3 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.000488 | <0.000624 | <0.000525 | <0.000649 | <0.000514 | <0.000698 | <0.000489 | <0.000463 | <0.000655 | <0.000594 | <0.000464 | <0.000764 | <0.000502 | <0.0465 | <0.000559 | <0.00058 | <0.000496 | <0.000513 | <0.000603 | <0.000601 | <0.00075 | <0.000543 | <0.00057 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | <0.000879 | <0.00112 | <0.000943 | <0.00117 | <0.000924 | <0.00125 | <0.00088 | <0.000832 | <0.00118 | <0.00107 | <0.000834 | <0.00137 | <0.000902 | <0.00836 | <0.001 | **0.0204** | **0.00773** | <0.000923 | <0.00108 | <0.00108 | **0.0473** | <0.000976 | <0.00102 |
| Hexachloro-1,3-butadiene | 1.2E+02 | 5.3E+00 | — | <0.00716 | <0.00913 | <0.00768 | <0.0095 | <0.00753 | <0.0102 | <0.00716 | <0.00677 | <0.00958 | <0.00869 | <0.00679 J3 | <0.0112 | <0.00735 | <0.068 | <0.00816 | <0.00849 | <0.00726 | <0.00751 | <0.00882 | <0.0088 | <0.011 | <0.00794 J3 | <0.00834 J3 |
| Isopropylbenzene | NS | NS | NS | <0.000507 | <0.000646 | <0.000544 | <0.000673 | <0.000533 | <0.000723 | <0.000507 | <0.00048 | <0.000679 | <0.000616 | <0.000481 | <0.000792 | <0.00052 | <0.00482 | <0.000579 | **0.00453** | <0.000514 | <0.000532 | <0.000625 | <0.000623 | **0.00826** | <0.000563 | <0.000591 |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.000417 | <0.000532 | <0.000448 | <0.000554 | <0.000439 | <0.000596 | <0.000418 | <0.000395 | <0.000559 | <0.000507 | <0.000396 | <0.000652 | <0.000429 | <0.00397 | <0.000477 | <0.000495 | <0.000423 | <0.000438 | <0.000515 | <0.000513 | <0.00064 | <0.000463 | <0.000487 |
| Methylene Chloride | 4.9E+02 | 2.5E+01 | — | <0.00792 | <0.0101 | <0.0085 | <0.0105 | <0.00833 | <0.0113 | <0.00793 | <0.00749 | <0.0106 | <0.00962 | <0.00752 | <0.0124 | <0.00813 | <0.0753 | <0.00905 | <0.0094 | <0.00803 | <0.00831 | <0.0976 | <0.00974 | <0.0121 | <0.00879 | <0.00923 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | **0.0197** | <0.00742 | <0.00624 | <0.00773 | <0.00612 | <0.00831 | <0.00582 | <0.00551 | <0.00779 | <0.00707 | <0.00552 | <0.0091 | **0.0167** | <0.0553 | <0.00665 | **0.485** | **0.0288** | <0.00611 | **0.0278** | <0.00715 | **0.101** | <0.00646 | <0.00679 |
| n-Butylbenzene | NS | NS | 5.9E+04 | <0.00826 | <0.00739 | <0.00672 | <0.00831 | <0.00669 | <0.00884 | <0.00827 | <0.00592 | <0.00838 | <0.00765 | <0.00594 | <0.00978 | <0.00643 | <0.0595 | <0.00715 | **0.0238** | <0.00635 | <0.00657 | <0.00772 | <0.0077 | <0.0096 | <0.00695 | <0.0073 |
| n-Propylbenzene | NS | NS | 2.4E+04 | <0.00103 | <0.00145 | <0.00122 | <0.0015 | <0.00119 | <0.00162 | <0.00113 | <0.00107 | <0.00152 | <0.00138 | <0.00108 | <0.00177 | <0.00116 | <0.0108 | <0.00129 | **0.0117** | <0.00115 | <0.00119 | <0.0014 | <0.00139 | <0.00173 | <0.00126 | <0.00132 |
| p-Isopropyltoluene | NS | NS | NS | <0.00304 | <0.00388 | <0.00326 | <0.00404 | <0.0032 | <0.00434 | <0.00304 | <0.00288 | <0.00407 | <0.00369 | <0.00289 | <0.00475 | <0.00312 | <0.0289 | <0.00347 | **0.0163** | <0.00308 | <0.00319 | <0.00375 | <0.00374 | **0.108** | <0.00338 | <0.00355 |
| sec-Butylbenzene | NS | NS | 1.2E+05 | <0.00344 | <0.00438 | <0.00369 | <0.00456 | <0.00361 | <0.0049 | <0.00344 | <0.00325 | <0.0046 | <0.00417 | <0.00326 | <0.00537 | <0.00353 | <0.0326 | <0.00392 | **0.0191** | <0.00348 | <0.00361 | <0.0042 | <0.00423 | <0.00522 | <0.00381 | <0.004 |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.000273 | <0.000348 | <0.000293 | <0.000363 | <0.000287 | <0.00039 | <0.000273 | <0.000258 | <0.000366 | <0.000332 | <0.000259 | <0.00427 | <0.00028 | <0.0259 | <0.000312 | <0.000324 | <0.000277 | <0.000287 | <0.000337 | <0.000336 | <0.000419 | <0.000303 | <0.000318 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.00233 | <0.00297 | <0.0025 | <0.00309 | <0.00245 | <0.00332 | <0.00233 | <0.0022 | <0.00311 | <0.00283 | <0.00221 | <0.00363 | <0.00239 | <0.0221 | <0.00266 | <0.00276 | <0.00236 | <0.00244 | <0.00287 | <0.00286 | <0.00358 | <0.00258 | <0.00271 |
| Tetrachloroethene | 3.3E+01 | 2.7E+00 | — | <0.00107 | <0.00136 | <0.00115 | <0.00142 | <0.00112 | <0.00152 | <0.00107 | <0.00101 | <0.00143 | <0.0013 | <0.00101 | <0.00168 | <0.0011 | <0.0102 | <0.00122 | <0.00127 | <0.00108 | <0.00112 | <0.00132 | <0.00132 | <0.00165 | <0.00119 | <0.00125 |
| Toluene | 4.7E+03 | 5.3E+03 | — | <0.00155 | <0.00198 | <0.00166 | <0.00205 | <0.00163 | <0.00221 | <0.00155 | <0.00147 | <0.00208 | <0.00188 | <0.00147 | <0.00242 | <0.00159 | <0.0147 | <0.00177 | **0.0333** | **0.00947** | <0.00163 | <0.00191 | <0.00191 | **0.152** | <0.00172 | <0.00181 |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.00124 | <0.00158 | <0.00133 | <0.00165 | <0.0013 | <0.00177 | <0.00124 | <0.00117 | <0.00166 | <0.00151 | <0.00118 | <0.00194 | <0.00127 | <0.0118 | <0.00142 | <0.00147 | <0.00126 | <0.0013 | <0.00153 | <0.00153 | <0.0019 | <0.00138 | <0.00145 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00136 | <0.00173 | <0.00146 | <0.00181 | <0.00143 | <0.00194 | <0.00136 | <0.00129 | <0.00182 | <0.00165 | <0.00129 | <0.00213 | <0.0014 | <0.0129 | <0.00155 | <0.00161 | <0.00138 | <0.00143 | <0.00168 | <0.00167 | <0.00208 | <0.00151 | <0.00159 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | <0.000697 | <0.000888 | **0.0021** | **0.00782** | **0.00646** | <0.000994 | <0.000697 | <0.000659 | <0.000932 | <0.000846 | <0.000661 | <0.00109 | <0.000715 | <0.0662 | <0.000796 | <0.000827 | <0.000706 | <0.000731 | <0.000859 | <0.000856 | <0.00107 | <0.000773 | <0.000812 |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.000986 | <0.00126 | <0.00106 | <0.00131 | <0.00104 | <0.00141 | <0.000987 | <0.000933 R | <0.00132 | <0.0012 | <0.000936 | <0.00154 J4R | <0.00101 | <0.00938 | <0.00113 | <0.00117 | <0.001 | <0.00104 | <0.00122 | <0.00121 | <0.00151 | <0.00109 | <0.00115 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.00138 | <0.00176 | <0.00148 | <0.00184 | <0.00146 | <0.00197 | <0.00138 | <0.00131 | <0.00185 | <0.00168 | <0.00131 | <0.00216 | <0.00142 | <0.0132 | <0.00158 | <0.00164 | <0.0014 | <0.00145 | <0.00171 | <0.0017 | <0.00212 | <0.00154 J3 | <0.00161 J3 |
| Xylenes, Total | 2.4E+03 | 2.5E+03 | — | <0.00105 | <0.00134 | <0.00113 | <0.00139 | <0.0011 | <0.0015 | <0.00105 | <0.000993 | <0.0014 | <0.00127 | <0.000996 | <0.00165 | <0.00108 | <0.00998 | <0.0012 | **0.0838** | <0.00108 | <0.0011 | <0.00129 | <0.00129 | **0.29** | <0.00116 | <0.00122 |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels, May 2024.

Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | G-E1-1 | G-E2-1 | G-E2-1 | G-E2-1 | G-E3-1 | G-E3-1 | G-E3-1 | G-F1-1 | G-F1-1 | G-F1-1 | G-F2-1 | G-F2-1 | G-F2-1 | G-F2-1 | G-F3-1 | G-F3-1 | G-F3-1 | G-G1-1 | G-G1-1 | G-G1-1 | G-G2-1 | G-G2-1 | G-G3-1 | G-G3-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 4.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 4.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/22/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 | 5/28/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.9E+00 | — | <0.00231 | <0.00125 | <0.00122 | <0.00125 | <0.00137 | <0.00138 | <0.0011 | <0.00164 | <0.00154 | <0.00163 | <0.0012 | <0.00129 | <0.00572 | <0.00176 | <0.00702 | <0.00779 | <0.00164 | <0.00115 | <0.00209 | <0.00157 | <0.00162 | <0.0139 | <0.00321 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.00225 | <0.00121 | <0.00119 | <0.00122 | <0.00133 | <0.00134 | <0.00107 | <0.0016 | <0.00159 | <0.00159 | **2.6** | **0.422** | **0.19** | <0.00156 | <0.00684 | <0.0076 | <0.00159 | <0.00112 | <0.00204 | <0.00153 | <0.00157 | <0.0135 | <0.00313 |
| 1,1,2,2-Tetrachloroethane | 4.9E+01 | 2.7E+00 | — | <0.00169 | <0.000914 | <0.000895 | <0.000915 | <0.001 | <0.00101 | <0.000809 | <0.0012 | <0.0012 | <0.0012 | <0.00088 | <0.000948 | <0.00418 | <0.00117 | <0.00515 | <0.00572 | <0.0012 | <0.000846 | <0.00153 | <0.00115 | <0.00118 | <0.0102 | <0.00235 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.00146 | <0.000786 | <0.000768 | <0.000786 | <0.000861 | <0.000866 | <0.000695 | <0.00103 | <0.00103 | <0.00103 | <0.000756 | <0.000815 | <0.0036 | <0.00101 | <0.00443 | <0.00491 | <0.00103 | <0.000726 | <0.00132 | <0.000988 | <0.00102 | <0.00874 | <0.00201 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.00184 | <0.000992 | <0.000971 | <0.000993 | <0.00109 | <0.00109 | <0.000878 | <0.0013 | <0.0013 | <0.0013 | <0.000955 | <0.00103 | <0.00455 | <0.00127 | <0.00558 | <0.0062 | <0.0013 | <0.000917 | <0.00166 | <0.00125 | <0.00128 | <0.011 | <0.00255 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.0012 | <0.000646 | <0.000632 | <0.000647 | <0.000708 | <0.000712 | <0.000572 | <0.00085 | <0.000848 | <0.000845 | **1.7** | **0.351** | **0.124** | <0.00083 | <0.00364 | <0.00405 | <0.000848 | <0.000597 | <0.00108 | <0.000813 | <0.000837 | <0.00719 | <0.00166 |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.00148 | <0.000797 | <0.00078 | <0.000798 | <0.000874 | <0.000879 | <0.000706 | <0.00105 | <0.00105 | <0.00104 | **0.181** | **0.0854** | **0.0171** | <0.00102 | <0.00449 | <0.00499 | <0.00105 | <0.000737 | <0.00134 | <0.001 | <0.00103 | <0.00887 | <0.00205 |
| 1,1-Dichloropropene | NS | NS | NS | <0.00198 | <0.00106 | <0.00104 | <0.00107 | <0.00117 | <0.00117 | <0.000942 | <0.0014 | <0.0014 | <0.00139 | <0.00102 | <0.0011 | <0.00487 | <0.00137 | <0.005 | <0.00665 | <0.0014 | <0.000984 | <0.00178 | <0.00134 | <0.00138 | <0.0118 | <0.00274 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.0179 | <0.00964 | <0.00943 | <0.00966 | <0.0106 | <0.0106 | <0.00853 | <0.0127 | <0.0127 | <0.0126 | <0.00926 | <0.01 | <0.0442 | <0.0124 | <0.0543 | <0.0604 | <0.0127 | <0.00892 | <0.0162 | <0.0121 | <0.0125 | <0.107 | <0.0249 |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.00396 | <0.00213 | <0.00209 | <0.00213 | <0.00234 | <0.00235 | <0.00189 | <0.0028 | <0.0028 | <0.00279 | <0.00205 | <0.00221 | <0.00975 | <0.00274 | <0.012 | <0.0133 | <0.0028 | <0.00197 | <0.00358 | <0.00268 | <0.00276 | <0.0238 | <0.00548 |
| 1,2,4-Trimethylbenzene | NS | NS | 2.0E+03 | <0.00386 | <0.00208 | <0.00203 | <0.00208 | **0.00975** | <0.00229 | <0.00184 | <0.00273 | <0.00273 | <0.00272 | **0.801** | **0.621** | **0.617** | **0.766** | **0.0813** | **0.0842** | **0.0694** | <0.00192 | **0.0445** | <0.00262 | <0.00269 | **2.05** | **0.235** |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.0107 | <0.00579 | <0.00566 | <0.0058 | <0.00634 | <0.00638 | <0.00512 | <0.00761 | <0.0076 | <0.00757 | <0.00557 | <0.006 | <0.0265 | <0.00744 | <0.0326 | <0.0362 | <0.0076 | <0.00535 | <0.0097 | <0.00728 | <0.0075 | <0.0644 | <0.0149 |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | <0.00386 J4R | <0.00208 | <0.00203 | <0.00208 | **0.2209** | <0.00229 | <0.00184 | <0.00273 | <0.00273 | <0.00272 | **2.46** | **2.7** | **1.28** | **0.367** | **0.0921** | **0.0986** | **0.182** | <0.00192 | **0.0272** | <0.00262 | <0.00269 | **3.16** | **0.333** |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.00952 | <0.00513 | <0.00502 | <0.00514 | <0.00562 | <0.00566 | <0.00454 | <0.00675 | <0.00673 | <0.00671 | <0.00494 | <0.00532 | <0.0235 | <0.00659 | <0.0289 | <0.032 | <0.00673 | <0.00475 | <0.0086 | <0.00646 | <0.00665 | <0.0571 | <0.0132 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.00158 | <0.000853 | <0.000834 | <0.000854 | <0.000934 | <0.00094 | <0.000754 | <0.00112 | <0.00112 | <0.00112 | <0.00082 | <0.000884 | <0.0039 | <0.0011 | <0.0048 | <0.00532 | <0.00112 | <0.000788 | <0.00143 | <0.00107 | <0.0011 | <0.00947 | <0.0022 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.00104 | <0.000559 | <0.000547 | <0.00056 | <0.000613 | <0.000617 | <0.000495 | <0.000735 | <0.000734 | <0.000731 | <0.000538 | <0.00058 | <0.00256 | <0.000718 | <0.00315 | <0.0035 | <0.000734 | <0.000517 | <0.000938 | **0.0771** | <0.000724 | <0.00622 | <0.00144 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.00158 | <0.000854 | <0.000835 | <0.000855 | <0.000936 | <0.000942 | <0.000756 | <0.00112 | <0.00112 | <0.00112 | <0.000822 | <0.000886 | <0.0039 | <0.0011 | <0.0048 | <0.00534 | <0.00112 | <0.00079 | <0.00143 | <0.00107 | <0.00111 | <0.00949 | <0.0022 |
| 1,2-Dichloropropane | 6.8E+01 | 4.4E+00 | — | <0.00346 | <0.00187 | <0.00183 | <0.00187 | <0.00205 | <0.00206 | <0.00165 | <0.00246 | <0.00245 | <0.00244 | <0.0018 | <0.00194 | <0.00855 | <0.0024 | <0.0105 | <0.0117 | <0.00245 | <0.00173 | <0.00314 | <0.00235 | <0.00242 | <0.0209 | <0.0048 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | <0.00488 J4R | <0.00263 | <0.00257 | <0.00263 | <0.0026 | <0.0029 | <0.00233 | <0.00346 | <0.00345 | <0.00344 | **1.13** | **1.34** | **0.384** | **0.102** | **0.0521** | **0.0574** | **0.0929** | <0.00243 | **0.0142** | <0.00331 | <0.00341 | **1.39** | **0.176** |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.00146 | <0.000789 | <0.000772 | <0.00079 | <0.000865 | <0.000871 | <0.000699 | <0.00104 | <0.00104 | <0.00103 | <0.00076 | <0.000819 | <0.00361 | <0.00101 | <0.00444 | <0.00494 | <0.00104 | <0.00073 | <0.00132 | <0.000993 | <0.00102 | <0.00878 | <0.00203 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.00122 | <0.000659 | <0.000645 | <0.00066 | <0.000722 | <0.000727 | <0.000583 | <0.000867 | <0.000865 | <0.000862 | <0.000634 | <0.000684 | <0.00301 | <0.000847 | <0.0037 | <0.00411 | <0.000865 | <0.00061 | <0.00111 | <0.000829 | <0.000854 | <0.00733 | <0.00169 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.0017 | <0.000921 | <0.000901 | <0.000922 | <0.00101 | <0.00102 | <0.000815 | <0.00121 | <0.00121 | <0.0012 | <0.000886 | <0.000955 | <0.00421 | <0.00118 | <0.00518 | <0.00575 | <0.00121 | <0.000852 | <0.00154 | **0.0202** | <0.00119 | <0.0102 | <0.00237 |
| 2,2-Dichloropropane | NS | NS | NS | <0.00336 | <0.00182 | <0.00178 | <0.00182 | <0.00199 | <0.002 | <0.00161 | <0.00239 | <0.00238 | <0.00238 | <0.00175 | <0.00188 | <0.00832 | <0.00233 | <0.0102 J3 | <0.0113 J3 | <0.00238 J3 | <0.00168 | <0.00304 | <0.00228 | <0.00235 | <0.0201 | <0.00467 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <0.155 | <0.0836 | <0.0817 | <0.0837 | <0.0916 | <0.0921 | <0.0739 | <0.11 | <0.11 | <0.109 | <0.0804 | <0.0866 | <0.383 | <0.107 | <0.471 | <0.522 | <0.11 | <0.0773 | <0.14 | <0.105 | <0.108 | <0.928 | <0.215 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.00211 | <0.00114 | <0.00111 | <0.00114 | <0.00125 | <0.00125 | <0.0010 | <0.0015 | <0.00149 | <0.00149 | <0.0011 | <0.00118 | <0.0052 | <0.00146 | <0.00641 | <0.00711 | <0.00149 | <0.00105 | <0.0019 | **0.0416** | <0.00147 | **0.514** | **0.0555** |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.0178** | **0.0168** | **0.0167** | **0.0165** | **0.0166** | **0.0168** | **0.0165** | **0.0166** | **0.0164** | **0.0166** | **0.018** | **0.0202** | **0.0411 J1** | **0.021** | **0.0178** | **0.0178** | **0.0168** | **0.0172** | **0.0175** | **0.0178** | **0.0172** | **0.0177** | **0.0182** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.0011 | <0.000592 | <0.000579 | <0.000593 | <0.000649 | <0.000653 | <0.000524 | <0.000779 | <0.000777 | <0.000775 | <0.00057 | <0.000614 | <0.0027 | <0.00076 | <0.00333 | <0.0037 | <0.000777 | <0.000548 | <0.000993 | <0.000745 | <0.000767 | **0.503** | <0.00152 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.00556 | <0.003 | <0.00293 | <0.003 | <0.00329 | <0.00331 | <0.00265 | <0.00395 | <0.00394 | <0.00392 | <0.00289 | <0.00311 | <0.0137 | <0.00385 | <0.0169 | <0.0187 | <0.00394 | <0.00277 | <0.00502 | <0.00377 | <0.00389 | **0.578** | <0.00771 |
| Acetone | 2.7E+05 | 6.7E+05 | — | **0.166** | <0.048 | <0.047 | <0.0481 | <0.0526 | <0.053 | <0.0425 | <0.0632 | <0.063 | <0.0628 | <0.0462 | <0.0498 | <0.219 | <0.0617 | <0.27 | <0.3 | <0.063 | <0.0444 | <0.0805 | <0.0604 | <0.0622 | <0.563 | <0.123 |
| Acetonitrile | NS | NS | 1.1E+00 | <0.00881 | <0.00475 | <0.00465 | <0.00476 | <0.00527 | <0.00524 | <0.0042 | <0.00625 | <0.00623 | <0.00621 | <0.00457 | <0.00493 | <0.0218 | <0.0061 | <0.0267 | <0.0297 | <0.00623 | <0.00439 | <0.00797 | <0.00598 | <0.00615 | <0.0529 | <0.0122 |
| Benzene | 3.3E+01 | 1.4E+00 | — | <0.00114 | <0.000614 | <0.000601 | <0.000615 | <0.000673 | **0.00276** | <0.000544 | <0.000808 | <0.000806 | <0.000804 | **0.855** | **0.48** | **0.152** | **0.0147** | **0.0216** | **0.0502** | **0.102** | <0.000568 | **0.00232** | <0.000773 | **0.01** | **0.0688** | **0.0056** |
| Bromobenzene | NS | NS | 1.8E+03 | <0.0022 | <0.00118 | <0.00116 | <0.00119 | <0.0013 | <0.00131 | <0.00105 | <0.00156 | <0.00155 | <0.00155 | <0.00114 | <0.00123 | <0.00542 | <0.00152 | <0.00687 | <0.0074 | <0.00155 | <0.0011 | <0.00198 | <0.00149 | <0.00153 | <0.0132 | <0.00304 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.00177 | <0.000954 | <0.000933 | <0.000955 | <0.00105 | <0.00105 | <0.000844 | <0.00125 | <0.00125 | <0.00125 | <0.000918 | <0.000989 | <0.00437 | <0.00123 | <0.00536 | <0.00597 | <0.00125 | <0.000882 | <0.0016 | <0.0012 | <0.00124 | <0.0106 | <0.00245 |
| Bromoform | 1.2E+03 | 8.6E+01 | — | <0.00286 | <0.00154 | <0.00151 | <0.00154 | <0.00169 | <0.0017 | <0.00136 | <0.00202 | <0.00202 | <0.00201 | <0.00148 | <0.0016 | <0.00705 | <0.00198 | <0.00867 | <0.0062 | <0.00202 | <0.00142 | <0.00259 | <0.00194 | <0.00199 | <0.0171 | <0.00396 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.0048 | <0.00259 | <0.00254 | <0.0026 | <0.00284 | <0.00286 | <0.00229 | <0.00341 | <0.0034 | <0.00339 | <0.00249 | <0.00269 | <0.0119 | <0.00333 | <0.0145 | <0.0162 | <0.0034 | <0.0024 | <0.00436 | <0.00325 | <0.00335 | <0.0289 | <0.00668 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.00219 | <0.00118 | <0.00116 | <0.00119 | <0.0013 | <0.0013 | <0.00105 | <0.00155 | <0.00155 | <0.00155 | <0.00114 | <0.00123 | <0.00541 | <0.00152 | <0.00686 | <0.00738 | <0.00155 | <0.00109 | <0.00198 | <0.00148 | <0.00153 | <0.0131 | <0.00304 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.000512 | <0.000276 | <0.00027 | <0.000277 | <0.000303 | <0.000305 | <0.000245 | <0.000363 | <0.000362 | <0.000361 | <0.000266 | <0.000287 | <0.00126 | <0.000355 | <0.00156 | <0.00172 | <0.000363 | <0.000256 | <0.000464 | <0.000348 | <0.000358 | <0.00307 | <0.00071 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.0015 | <0.000805 | <0.000788 | <0.000805 | <0.000882 | <0.000888 | <0.000713 | <0.00106 | <0.00106 | <0.00105 | <0.000775 | <0.000835 | <0.00368 | <0.00103 | <0.00454 | <0.00504 | <0.00106 | <0.000745 | <0.00135 | <0.00101 | <0.00104 | <0.00896 | <0.00206 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.00414 | <0.00224 | <0.00219 | <0.00224 | <0.00245 | <0.00247 | <0.00198 | <0.00294 | <0.00293 | <0.00293 | **18.5** | **12.6** | **1.92** | **0.26** | <0.01 | <0.014 | <0.00293 | <0.00207 | <0.00375 | <0.00281 | <0.0029 | <0.0249 | <0.00575 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.00252 | <0.00136 | <0.00133 | <0.00136 | <0.00149 | <0.00149 | <0.0012 | <0.00178 | <0.00178 | <0.00177 | <0.0013 | <0.00141 | <0.0062 | <0.00174 | <0.00764 | <0.00847 | <0.00178 | <0.00125 | <0.00228 | <0.00171 | <0.00176 | <0.0151 | <0.00348 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.0106 | <0.00572 | <0.0056 | <0.00573 | <0.00627 | <0.00631 | <0.00506 | <0.00753 | <0.00751 | <0.00749 | <0.00551 | <0.00594 | <0.0262 | <0.00735 | <0.0323 | <0.0358 | <0.00751 | <0.00529 | <0.00961 | <0.0072 | <0.00741 | <0.0637 | <0.0147 |
| cis-1,2-Dichloroethene | 7.8E+01 | 8.5E+01 | — | <0.00179 | <0.000966 | <0.000945 | <0.000967 | <0.00106 | <0.00106 | <0.000855 | <0.00127 | <0.00127 | <0.00126 | **0.00841** | <0.001 | <0.0044 | <0.00124 | **0.0764** | **0.209** | **0.0938** | <0.000893 | <0.00162 | <0.00122 | <0.00125 | **0.0704** | **0.0164** |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00185 | <0.000936 | <0.000974 | <0.000997 | <0.00109 | <0.0011 | <0.000881 | <0.00131 | <0.00131 | <0.0013 | <0.000958 | <0.00103 | <0.00456 | <0.00128 | <0.00561 | <0.00622 | <0.00131 | <0.000921 | <0.00167 | <0.00125 | <0.00129 | <0.0111 | <0.00255 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.00184 | <0.000987 | <0.000965 | <0.000988 | <0.00108 | <0.00109 | <0.000873 | <0.0013 | <0.00129 | <0.00129 | <0.00095 | <0.00102 | <0.00452 | <0.00127 | <0.00556 | <0.00617 | <0.00129 | <0.000913 | <0.00166 | <0.00124 | <0.00128 | <0.011 | <0.00254 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.00392 | <0.00212 | <0.00207 | <0.00212 | <0.00232 | <0.00234 | <0.00187 | <0.00279 | <0.00278 | <0.00277 | <0.00204 | <0.0022 | <0.00969 | <0.00272 | <0.0119 | <0.0133 | <0.00278 | <0.00195 | <0.00356 | <0.00267 | <0.00274 | <0.0236 | <0.00545 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.001 | <0.000539 | <0.000528 | <0.00054 | <0.000591 | <0.000595 | <0.000477 | <0.000709 | <0.000708 | <0.000706 | <0.000519 | <0.000559 | <0.00247 | <0.000693 | <0.00303 | <0.00337 | <0.000708 | <0.000499 | <0.000906 | <0.000679 | <0.000699 | <0.006 | <0.00139 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | <0.0018 | <0.00097 | <0.000949 | <0.000971 | <0.00106 | <0.00107 | <0.000858 | <0.00128 | <0.00127 | <0.00127 | **2.25** | **5.03** | **0.503** | **0.248** | **0.0272** | **0.0918** | **0.0948** | <0.000897 | <0.00163 | <0.00122 | <0.00126 | **0.346** | **0.0218** |
| Hexachloro-1,3-butadiene | 1.2E+02 | 5.3E+00 | — | <0.0146 | <0.00789 | <0.00772 | <0.0079 | <0.00865 | <0.00871 | <0.00699 | <0.0104 | <0.0104 | <0.0103 | <0.0076 | <0.00819 | <0.0361 | <0.0101 | <0.0444 | <0.0494 | <0.0104 | <0.0073 | <0.0132 | <0.00993 | <0.0102 | <0.0878 | <0.0203 |
| Isopropylbenzene | NS | NS | NS | <0.00104 | <0.000559 | <0.000547 | <0.00056 | <0.000613 | <0.000617 | <0.000495 | <0.000735 | <0.000734 | <0.000731 | **0.597** | **0.932** | **0.775** | **0.33** | **0.02** | **0.0934** | **0.0304** | <0.000517 | **0.0128** | **0.0586** | <0.000724 | **0.305** | **0.0238** |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.000854 | <0.000461 | <0.000451 | <0.000461 | <0.000505 | <0.000508 | <0.000408 | <0.000606 | <0.000604 | <0.000602 | <0.000443 | <0.000478 | <0.00211 | <0.000591 | <0.00259 | <0.00289 | <0.000504 | <0.000426 | **0.00441** | <0.000579 | <0.000596 | <0.00512 | <0.00118 |
| Methylene Chloride | 4.9E+02 | 2.5E+01 | — | <0.0162 | <0.00874 | <0.00855 | <0.00875 | <0.0097 | <0.00963 | <0.00773 | <0.0115 | <0.0115 | <0.0114 | <0.00841 | <0.00906 | <0.0401 | <0.0112 | <0.0492 | <0.0546 | <0.0115 | <0.00808 | <0.0146 | <0.011 | <0.0113 | <0.103 | <0.0225 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | <0.0119 | **0.0167** | <0.00628 | <0.00643 | <0.00704 | <0.00708 | <0.00568 | <0.00844 | <0.00842 | <0.0084 | **0.997** | **0.0823** | **0.284** | **0.357** | **0.0938** | **0.138** | **0.0548** | **0.0173** | **0.0263** | <0.00808 | <0.00832 | **7.02** | **0.775** |
| n-Butylbenzene | NS | NS | 5.8E+04 | <0.0129 | <0.00691 | <0.00676 | <0.00692 | <0.00757 | <0.00762 | <0.00611 | <0.00908 | <0.00906 | <0.00904 | **0.0843** | **0.184** | **0.338** | **0.179** | <0.0389 | <0.0431 | <0.00906 | <0.00639 | **0.0755** | **0.23** | <0.00893 | **2.38** | <0.0178 |
| n-Propylbenzene | NS | NS | 2.4E+04 | <0.00232 | <0.00125 | <0.00122 | <0.00125 | <0.00137 | <0.00138 | <0.00111 | <0.00164 | <0.00164 | <0.00164 | **0.928** | **2.08** | **2.12** | **1.12** | <0.00703 | **0.0564** | **0.0445** | <0.00116 | <0.00209 | **0.0444** | <0.00162 | **0.307** | **0.0303** |
| p-Isopropyltoluene | NS | NS | NS | <0.00822 | <0.00335 | <0.00328 | <0.00335 | <0.00368 | <0.0037 | <0.00297 | <0.00441 | <0.0044 | <0.00439 | **0.107** | **0.0928** | **0.118** | **0.0542** | <0.0189 | <0.0209 | **0.0156** | <0.0031 | **0.0182** | <0.00422 | <0.00435 | **0.633** | **0.0802** |
| sec-Butylbenzene | NS | NS | 1.2E+05 | <0.00703 | <0.00373 | <0.00371 | <0.00379 | <0.00415 | <0.00418 | <0.00335 | <0.00498 | <0.00497 | <0.00496 | **0.13** | **0.206** | **0.442** | **0.163** | <0.0213 | <0.0237 | <0.00497 | <0.0035 | <0.00635 | **0.127** | <0.00491 | **0.236** | <0.00974 |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.000558 | <0.000301 | <0.000295 | <0.000302 | <0.00033 | <0.000332 | <0.000267 | <0.000396 | <0.000395 | <0.000394 | <0.00029 | <0.000312 | <0.00138 | <0.000387 | <0.0017 | <0.00189 | <0.000395 | <0.000279 | <0.000506 | <0.000378 | <0.00039 | <0.00335 | <0.000775 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.00476 | <0.00257 | <0.00251 | <0.00257 | <0.00281 | <0.00283 | <0.00227 | <0.00337 | <0.00337 | <0.00335 | **0.0115** | <0.00265 | **0.243** | **0.0204** | <0.0144 | <0.016 | <0.00337 | <0.00237 | <0.0043 | <0.00323 | <0.00332 | <0.0285 | <0.0066 |
| Tetrachloroethene | 3.3E+01 | 2.7E+00 | — | <0.00219 | <0.00118 | <0.00115 | <0.00118 | <0.00129 | <0.0013 | <0.00104 | **0.0715** | **0.0288** | <0.00154 | <0.00113 | <0.00122 | <0.00539 | <0.00151 | **0.101** | **0.068** | <0.00155 | **0.00937** | **0.0628** | <0.00148 | <0.00153 | **0.115** | **0.0911** |
| Toluene | 4.7E+03 | 5.3E+03 | — | <0.00318 | <0.00171 | <0.00167 | <0.00171 | <0.00187 | <0.00189 | <0.00151 | <0.00225 | <0.00224 | <0.00224 | **0.429** | **0.0937** | **0.148** | <0.0022 | **0.0848** | **0.131** | **0.185** | <0.00158 | <0.00287 | <0.00215 | <0.00222 | **0.534** | **0.0352** |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.00254 | <0.00137 | <0.00134 | <0.00137 | <0.0015 | <0.00151 | <0.00121 | <0.0018 | <0.0018 | <0.00179 | <0.00132 | <0.00142 | <0.00626 | <0.00176 | <0.00771 | <0.00856 | <0.0018 | <0.00127 | <0.0023 | <0.00172 | <0.00177 | <0.0152 | <0.00352 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00278 | <0.0015 | <0.00147 | <0.0015 | <0.00164 | <0.00165 | <0.00133 | <0.00197 | <0.00197 | <0.00196 | <0.00144 | <0.00155 | <0.00687 | <0.00193 | <0.00844 | <0.00937 | <0.00197 | <0.00139 | <0.00251 | <0.00189 | <0.00194 | <0.0167 | <0.00385 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | <0.00143 | <0.000768 | <0.000752 | <0.000769 | <0.000842 | <0.000847 | <0.00068 | <0.00101 | **0.00838** | <0.00101 | <0.000739 | <0.000797 | <0.00352 | <0.000987 | **0.0721** | **0.177** | **0.00615** | <0.000711 | **0.00656** | <0.000967 | **0.0182** | **1.75** | **0.112** |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.00202 | <0.00109 | <0.00106 | <0.00109 | <0.00119 | <0.0012 | <0.000963 | <0.00143 | <0.00143 | <0.00142 | <0.00105 | <0.00113 | <0.00499 | <0.0014 | <0.00613 | <0.0068 | <0.00143 | <0.00101 | <0.00182 | <0.00137 | <0.00141 | <0.0121 | <0.00279 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.00264 | <0.00153 | <0.00149 | <0.00153 | <0.00167 | <0.00168 | <0.00135 | <0.00201 | <0.002 | <0.002 | **0.101** | **0.00864** | <0.00699 | <0.00196 | <0.00859 | **0.107** | **0.0338** | <0.00141 | <0.00257 | <0.00192 | <0.00198 | <0.017 | <0.00392 |
| Xylenes, Total | 2.4E+03 | 2.5E+03 | — | <0.00214 | <0.00116 | <0.00113 | <0.00116 | **0.0105** | <0.00128 | <0.00102 | <0.00152 | <0.00152 | <0.00151 | **8.8** | **3.36** | **1.74** | **0.0668** | **0.211** | **0.362** | **0.19** | <0.00107 | **0.0104** | **0.0245** | <0.0015 | **2.12** | **0.183** |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2018 RWQCB | 2018 RWQCB | USEPA | G-G3-1 | G-G3-1 | G-G3-1 | G-G3-1 | G-G4-1 | G-G4-1 | G-G4-1 | G-H3-1 | G-H3-1 | G-H3-1 | G-H3-1 | G-H3-1 | G-H3-1 | G-H3-1 | G-H3-1 | GW-1 | GW-2 | GW-3 | GW-4 | GW-5 | GW-5-12.5 | GW-5-17.5 | P-01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 5.0 | 2.0 | 3.0 | 4.0 | 5.0 | 2.0 | 3.0 | 4.0 | 5.0 | 13.5 | 14 | 13.0 | 13.5 | 14.5 | 12.5 | 17.5 | 16.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/21/2024 | 5/28/2024 | 5/29/2024 | 5/23/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.9E+00 | — | <0.00155 | <0.00141 | <0.00142 | <0.00157 | <0.0018 | <0.00157 | <0.00147 | <0.00134 | <0.00127 | <0.00129 | <0.00151 | <0.00235 | <0.00147 | <0.00145 | <0.0017 | <0.00133 | <0.00116 | <0.00151 | <0.00153 | <0.00147 | <0.0265 | <0.00132 | <0.00145 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.00151 | <0.00137 | <0.00138 | <0.00153 | <0.00176 | <0.00153 | <0.00143 | <0.0013 | **0.033** | <0.00126 | <0.00147 | **0.0717** | **0.0419** | <0.00141 | <0.00166 | <0.0013 | <0.00113 | <0.00147 | <0.00149 | <0.00143 | <0.0259 | <0.00128 | <0.00141 |
| 1,1,2,2-Tetrachloroethane | 4.9E+01 | 2.7E+00 | — | <0.00114 | <0.00103 | <0.00104 | <0.00115 | <0.00132 | <0.00115 | <0.00108 | <0.000981 | <0.000932 | <0.000949 | <0.00111 | <0.00172 | <0.00108 | <0.00106 | <0.00125 | <0.000976 | <0.000853 | <0.00111 | <0.00112 | <0.00108 | <0.0195 | <0.000965 | <0.00106 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.000976 | <0.000889 | <0.000893 | <0.000988 | <0.00113 | <0.000986 | <0.000924 | <0.000842 | <0.000801 | <0.000815 | <0.000954 | <0.00147 | <0.000927 | <0.00091 | <0.00107 | <0.000838 | <0.000732 | <0.000952 | <0.000963 | <0.000924 | <0.0167 | <0.000829 | <0.000911 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.00123 | <0.00112 | <0.00113 | <0.00125 | <0.00143 | <0.00124 | <0.00117 | <0.00106 J3 | <0.00101 J3 | <0.00103 | <0.0012 J3 | <0.00187 | <0.00117 | <0.00115 | <0.00135 | <0.00106 | <0.000925 | <0.0012 | <0.00122 | <0.00117 | <0.0212 | <0.00105 | <0.00115 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.000802 | <0.000731 | <0.000734 | <0.000812 | <0.000932 | <0.000811 | <0.00076 | **0.00905** | <0.000658 | <0.00067 | <0.000784 | **0.064** | **0.118** | <0.000748 | <0.000881 | <0.00069 | <0.000602 | <0.000783 | <0.000792 | <0.00076 | <0.0136 | <0.000682 | <0.000749 |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.00099 | <0.000902 | <0.000906 | <0.001 | <0.00115 | <0.001 | <0.000937 | <0.000855 | <0.000813 | <0.000827 | <0.000968 | <0.00149 | <0.000941 | <0.000924 | <0.00109 | <0.000851 | <0.000743 | **0.0274** | <0.000977 | <0.000938 | <0.017 | <0.000841 | <0.000925 |
| 1,1-Dichloropropene | NS | NS | NS | <0.00132 | <0.0012 | <0.00121 | <0.00134 | <0.00153 | <0.00134 | <0.00125 | <0.00114 | <0.00109 | <0.001 | <0.00129 | <0.002 | <0.00126 | <0.00123 | <0.00145 | <0.00114 | <0.000992 | <0.00129 | <0.0013 | <0.00125 | <0.0227 | <0.00112 | <0.00123 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.012 | <0.0109 | <0.011 | <0.0121 | <0.0139 | <0.0121 | <0.0113 | <0.0103 | <0.00983 | <0.01 | <0.0117 | <0.0182 | <0.0114 | <0.0112 | <0.0131 | <0.0103 | <0.00899 | <0.0117 | <0.0118 | <0.0113 | <0.206 | <0.0102 | <0.0112 |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.00265 | <0.00241 | <0.00242 | <0.00268 | <0.00307 | <0.00267 | <0.00251 | <0.00229 J4 | <0.00217 J4 | <0.00221 | <0.00259 J4 | <0.004 | <0.00251 | <0.00247 | <0.00291 | <0.00228 | <0.00199 | <0.00258 | <0.00261 | <0.00251 | <0.0454 | <0.00225 | <0.00247 |
| 1,2,3-Trimethylbenzene | NS | NS | 2.0E+03 | **0.185** | **0.0213** | <0.00236 | <0.00261 | **0.0118** | <0.0026 | <0.00244 | **0.0231** | **0.0115** | <0.00216 | <0.00252 | <0.0039 | <0.00245 | <0.00241 | <0.00283 | <0.00222 | <0.00194 | <0.00252 | <0.00255 | <0.00245 | <0.0443 | <0.00219 | **1.06** |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.00719 | <0.00655 | <0.00658 | <0.00728 | <0.00835 | <0.00726 | <0.00681 | <0.00621 | <0.0059 | <0.00601 J3 | <0.00703 | <0.0109 | <0.00683 | <0.00671 J3 | <0.00789 | <0.00618 | <0.0054 | <0.00701 | <0.00709 | <0.00681 | <0.123 | <0.00611 | <0.00672 |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | **0.265** | **0.0341** | **0.00972** | <0.00261 | **0.0295** | **0.00975** | <0.00244 | **0.0505** | **0.0182** | <0.00216 | <0.00252 | <0.0039 | <0.00245 | <0.00241 | <0.00283 | <0.00222 | <0.00194 J4R | <0.00252 | <0.00255 | <0.00245 | <0.0443 | <0.00219 | **0.0197** |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.00637 | <0.00581 | <0.00583 | <0.00645 | <0.0074 | <0.00644 | <0.00603 | <0.0055 | <0.00523 | <0.00532 | <0.00623 | <0.00964 | <0.00605 | <0.00595 | <0.00699 | <0.00548 | <0.00478 | <0.00622 | <0.00629 | <0.00604 | <0.109 | <0.00542 | <0.00595 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.00106 | <0.000965 | <0.000969 | <0.00107 | <0.00123 | <0.00107 | <0.001 | <0.000914 | <0.000869 | <0.000885 | <0.00104 | <0.00161 | <0.00101 | <0.000988 | <0.00116 | <0.00091 | <0.000795 | <0.00103 | <0.00104 | <0.001 | <0.0182 | <0.0009 | <0.000989 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.000895 | <0.000833 | <0.000836 | <0.000703 | <0.000807 | <0.000702 | <0.000657 | **0.0163** | <0.00057 | <0.00058 | <0.000679 | <0.00105 | <0.00066 | <0.000648 | <0.000762 | <0.000597 | <0.000521 | <0.000678 | <0.000685 | <0.000658 | <0.0119 | <0.00059 | <0.000649 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.00106 | <0.000966 | <0.000971 | <0.00107 | <0.00123 | <0.00107 | <0.001 | <0.000916 | <0.000871 | <0.000886 | <0.00104 | <0.00161 | <0.00101 | <0.00099 | <0.00115 | <0.000911 | <0.000796 | <0.00103 | <0.00105 | <0.001 | <0.0182 | <0.000901 | <0.000991 |
| 1,2-Dichloropropane | 6.8E+01 | 4.4E+00 | — | <0.00232 | <0.00211 | <0.00212 | <0.00235 | <0.0027 | <0.00235 | <0.0022 | <0.002 | <0.0019 | <0.00194 | <0.00227 | <0.00351 | <0.0022 | <0.00217 | <0.00255 | <0.00199 | <0.00174 | <0.00226 | <0.00229 | <0.0022 J4R | <0.0398 | <0.00197 | <0.00217 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | **0.128** | <0.00238 | <0.00239 | <0.00331 | **0.0107** | <0.0033 | <0.00309 | **0.00902** | **0.00773** | <0.00273 | <0.0032 | <0.0049 | <0.0031 | <0.00305 | <0.00359 | <0.00281 | <0.00245 J4R | <0.00319 | <0.00322 | <0.0031 | <0.0561 | <0.00278 | **0.29** |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.000981 | <0.000893 | <0.000897 | <0.000993 | <0.00114 | <0.000991 | <0.000928 | <0.000847 | <0.000805 | <0.000819 | <0.000959 | <0.00148 | <0.000931 | <0.000915 | <0.00108 | <0.000843 | <0.000736 | <0.000956 | <0.000967 | <0.000929 | <0.0168 | <0.000833 | <0.000916 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.000819 | <0.000746 | <0.000749 | <0.000829 | <0.00095 | <0.000827 | <0.000775 | <0.000707 | <0.000672 | <0.000684 | <0.0008 | <0.00124 | <0.000778 | <0.000764 | <0.000898 | <0.000704 | <0.000615 | <0.000799 | <0.000808 | <0.000776 | <0.014 | <0.000696 | <0.000765 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.00114 | <0.00104 | <0.00105 | <0.00115 | <0.00133 | <0.00116 | <0.00108 | <0.000988 | <0.000939 | <0.000955 | <0.00112 | <0.00173 | <0.00109 | <0.00107 | <0.00125 | <0.000983 | <0.000858 | <0.00112 | <0.00113 | <0.00108 | <0.0196 | <0.000972 | <0.00107 |
| 2,2-Dichloropropane | NS | NS | NS | <0.00226 | <0.00205 | <0.00206 | <0.00228 | <0.00262 | <0.00228 | <0.00213 | <0.00195 | <0.00185 | <0.00188 | <0.0022 | <0.00341 | <0.00214 | <0.0021 | <0.00247 | <0.00194 | <0.00168 | <0.0022 | <0.00222 | <0.00214 | <0.0387 | <0.00192 | <0.00211 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <0.104 | <0.0945 | <0.095 | <0.105 | <0.12 J4 | <0.105 J4 | <0.0882 J4 | <0.0898 J3 | <0.0852 J3 | <0.0867 | <0.101 J3 | <0.157 | <0.0988 | <0.0968 | <0.114 | <0.0892 | <0.0779 | <0.101 | <0.102 | <0.0983 J4R | <1.78 J4 | <0.0882 J4 | <0.0966 J4 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.00141 | <0.00129 | <0.00129 | <0.00143 | <0.00164 | <0.00142 | <0.00134 | <0.00122 | <0.00116 | <0.00118 | <0.00138 | <0.00214 | <0.00134 | <0.00132 | <0.00155 | <0.00121 | <0.00106 | <0.00138 | <0.00139 | <0.00134 | <0.0243 | <0.0012 | <0.00132 |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.018** | **0.0164** | **0.0161** | **0.0161** | **0.0158** | **0.0147** | **0.0158** | **0.0164** | **0.0162** | **0.0165** | **0.016** | **0.0161** | **0.0158** | **0.0164** | **0.017** | **0.0167** | **0.0162** | **0.0169** | **0.0167** | **0.0157** | **0.0176** | **0.0154** | **0.0243 J1** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.000735 | <0.00067 | <0.000673 | <0.000744 | <0.000855 | <0.000744 | <0.000695 | <0.000635 | <0.000604 | <0.000614 | <0.000719 | <0.00111 | <0.000699 | <0.000686 | <0.000807 | <0.000632 | <0.000552 | <0.000717 | <0.000726 | <0.000697 | <0.0126 | <0.000625 | <0.000687 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.00373 | <0.00339 | <0.00341 | <0.00377 | <0.00432 | <0.00376 | <0.00353 | <0.00322 | <0.00306 | <0.00311 | <0.00364 | <0.00553 | <0.00354 | <0.00348 | <0.00409 | <0.0032 | <0.0028 | <0.00363 | <0.00368 | <0.00353 | <0.0639 | <0.00317 | <0.00348 |
| Acetone | 2.7E+05 | 6.7E+05 | — | <0.0587 | <0.0543 | <0.0546 | <0.0604 | <0.0693 | <0.0603 | <0.0565 | <0.0515 J3,J4 | <0.049 J3,J4 | <0.0498 J3 | <0.0583 J3,J4 | <0.0902 | <0.0567 | <0.0557 J3 | <0.0655 | <0.0513 J3 | <0.0448 | <0.0582 J4 | <0.0588 J4 | <0.0565 J4R | <1.02 | <0.0507 | <0.0557 |
| Acetonitrile | NS | NS | 1.9E+00 | <0.0069 | <0.00637 | <0.0064 | <0.00597 | <0.00685 | <0.00596 | <0.00558 | <0.00509 | <0.00484 | <0.00492 | <0.00577 | <0.00892 | <0.0056 | <0.0055 | <0.00647 | <0.00507 | <0.0043 | <0.00575 | <0.00582 | <0.00559 | <0.101 | <0.00501 | <0.00551 |
| Benzene | 3.3E+01 | 1.4E+00 | — | **0.00454** | **0.00718** | **0.00245** | <0.000773 | **0.00446** | **0.0234** | <0.000722 | **0.0306** | **0.00287** | <0.000638 | <0.000746 | <0.00115 | <0.000725 | <0.000712 | <0.000837 | <0.000656 | <0.000573 | <0.000744 | <0.000753 | <0.000723 | <0.0131 | <0.000648 | **0.428** |
| Bromobenzene | NS | NS | 1.8E+03 | <0.00147 | <0.00134 | <0.00135 | <0.00149 | <0.00171 | <0.00149 | <0.00139 | <0.00127 | <0.00121 | <0.00123 | <0.00144 | <0.00222 | <0.0014 | <0.00137 | <0.00161 | <0.00126 | <0.0011 | <0.00143 | <0.00145 | <0.00139 | <0.0252 | <0.00125 | <0.00137 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.00118 | <0.00108 | <0.00108 | <0.0012 | <0.00138 | <0.0012 | <0.00112 | <0.00102 | <0.000973 | <0.00099 | <0.00116 | <0.00179 | <0.00113 | <0.00111 | <0.0013 | <0.00102 | <0.000889 | <0.00115 | <0.00117 | <0.00112 | <0.0203 | <0.00101 | <0.00111 |
| Bromoform | 1.2E+03 | 8.6E+01 | — | <0.00191 | <0.00174 | <0.00175 | <0.00194 | <0.00222 | <0.00193 | <0.00181 | <0.00165 | <0.00157 | <0.0016 | <0.00187 | <0.00289 | <0.00182 | <0.00178 | <0.0021 | <0.00164 | <0.00144 | <0.00187 | <0.00189 | <0.00181 | <0.0328 | <0.00162 | <0.00179 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.00322 | <0.00293 | <0.00295 | <0.00326 | <0.00373 | <0.00325 | <0.00305 | <0.00278 | <0.00254 | <0.00269 | <0.00315 | <0.00487 | <0.00306 | <0.003 | <0.00353 | <0.00277 J3 | <0.00242 | <0.00314 | <0.00318 | <0.00305 | <0.0553 | <0.00274 | <0.00301 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.00147 | <0.00134 | <0.00134 | <0.00149 | <0.0017 | <0.00148 | <0.00139 | <0.00127 | <0.0012 | <0.00123 | <0.00143 | <0.00222 | <0.00139 | <0.00137 | <0.00161 | <0.00126 | <0.0011 | <0.00143 | <0.00145 | <0.00139 | <0.0252 | <0.00125 | <0.00137 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.000343 | <0.000313 | <0.000314 | <0.000347 | <0.000398 | <0.000346 | <0.000325 | <0.000296 | <0.000282 | <0.000287 | <0.000336 | <0.000519 | <0.000326 | <0.0032 | <0.000377 | <0.000295 | <0.000258 | <0.000335 | <0.000339 | <0.000325 | <0.00589 | <0.000292 | <0.000321 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.001 | <0.000911 | <0.000915 | <0.00101 | <0.00116 | <0.00101 | <0.000947 | <0.000864 | <0.000821 | <0.000836 | <0.000978 | <0.00151 | <0.00095 | <0.000933 | <0.0011 | <0.00086 | <0.000751 | <0.000976 | <0.000987 | <0.000947 | <0.0171 | <0.00085 | <0.000934 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.00278 | <0.00253 | <0.00254 | <0.00281 | <0.00322 | <0.00281 | <0.00263 | <0.0024 | <0.00228 | <0.00232 | <0.00272 | <0.0042 | <0.00264 | <0.00259 | <0.00305 | <0.00239 | <0.00209 | <0.00271 | <0.00274 | <0.00263 | <0.0477 | <0.00236 | <0.00259 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.00158 | <0.00153 | <0.00154 | <0.0017 | <0.00196 | <0.00171 | <0.00159 | <0.00145 | <0.00138 | <0.00141 | <0.00165 | <0.00254 | <0.0016 | <0.00157 | <0.00185 | <0.00145 | <0.00126 | <0.00154 | <0.00166 | <0.00159 | <0.0289 | <0.00143 | <0.00157 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.00711 | <0.00647 | <0.00651 | <0.0072 | <0.00825 | <0.00718 | <0.00673 | <0.00614 | <0.00584 | <0.00594 | <0.00695 | <0.0107 | <0.00675 | <0.0663 | <0.078 | <0.00611 | <0.00534 | <0.00693 | <0.00701 | <0.00673 | <0.122 | <0.00604 | <0.00664 |
| cis-1,2-Dichloroethene | 7.8E+01 | 8.5E+01 | — | **0.0204** | <0.00169 | <0.0011 | <0.00121 | <0.00139 | <0.00121 | <0.0011 | **0.0049** | <0.000985 | <0.001 | <0.00117 | <0.00182 | <0.00114 | <0.00112 | <0.00132 | <0.00103 | <0.0009 | <0.0011 | <0.00118 | <0.00114 | <0.0206 | <0.00102 | <0.00112 |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00124 | <0.00113 | <0.00113 | <0.00125 | <0.00144 | <0.00125 | <0.00117 | <0.00107 | <0.00102 | <0.00103 | <0.00121 | <0.00187 | <0.00118 | <0.00115 | <0.00138 | <0.00106 | <0.000929 | <0.00121 | <0.00122 | <0.00117 | <0.0212 | <0.00105 | <0.00116 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.00123 | <0.00112 | <0.00112 | <0.00124 | <0.00142 | <0.00124 | <0.00116 | <0.00106 | <0.00101 | <0.00102 | <0.0012 | <0.00185 | <0.00116 | <0.00114 | <0.00135 | <0.00105 | <0.00092 | <0.0012 | <0.00121 | <0.00116 | <0.021 | <0.00104 | <0.00114 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.00263 | <0.0024 | <0.00241 | <0.00266 | <0.00305 | <0.00266 | <0.00249 | <0.00227 | <0.00216 | <0.0022 | <0.00257 | <0.00398 | <0.0025 | <0.00245 | <0.00289 | <0.00226 J3 | <0.00197 | <0.00257 | <0.0026 | <0.00249 | <0.0452 | <0.00224 | <0.00246 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.00057 | <0.00051 | <0.00051 | <0.000618 | <0.000578 | <0.000777 | <0.000577 | <0.000634 | <0.000579 | <0.0005 | <0.000565 | <0.00101 | <0.000636 | <0.000625 | <0.000735 | <0.000576 | <0.000503 | <0.000554 | <0.000561 | <0.000535 | <0.0115 | <0.000569 | <0.000626 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | **0.0188** | **0.0147** | <0.0011 | <0.00122 | **0.00686** | **0.0434** | <0.00114 | **0.0203** | <0.000989 | <0.00101 | <0.00118 | <0.00182 | <0.00114 | <0.00112 | <0.00132 | <0.00104 | <0.000804 | <0.00117 | <0.00119 | <0.00114 | <0.0206 | <0.00102 | **7.1** |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | — | <0.00981 | <0.00893 | <0.00897 | <0.00993 | <0.0114 | <0.00991 | <0.00928 | <0.00847 | <0.00805 | <0.00819 | <0.00959 | **0.0148** | <0.00931 | <0.00915 | <0.0106 | <0.00843 J3 | <0.00736 | <0.00956 | <0.00967 | <0.00929 | <0.169 | <0.00833 | <0.00916 |
| Isopropylbenzene | NS | NS | NS | **0.0227** | **0.0118** | **0.00612** | <0.000703 | <0.000807 | **0.0123** | <0.000657 | **0.00368** | <0.00057 | <0.00058 | <0.000679 | <0.00105 | <0.00066 | <0.000648 | <0.000762 | <0.000597 | <0.000521 | <0.000678 | <0.000685 | <0.000658 | **0.142** | <0.00059 | **1.13** |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.000572 | <0.000521 | <0.000523 | <0.000579 | <0.000665 | <0.000579 | <0.000541 | <0.000494 | <0.00047 | <0.000478 | <0.000559 | <0.000865 | <0.000543 | <0.000534 | <0.000628 | <0.000492 | <0.000429 | <0.000558 | <0.000564 | <0.000542 | <0.00982 | <0.000486 | <0.000534 |
| Methylene Chloride | 4.9E+02 | 2.5E+01 | — | <0.0109 | <0.00988 | <0.00993 | <0.011 | <0.0126 | <0.011 | <0.0103 | <0.00937 | <0.00891 | <0.00907 | <0.0106 | <0.0164 | <0.0103 | <0.0101 | <0.0119 | <0.00933 | <0.00815 | <0.0106 | <0.0107 | <0.0103 | <0.187 | <0.00922 | <0.0101 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | **0.422** | <0.00726 | <0.0073 | <0.00897 | **0.0524** | <0.00896 | <0.00755 | **0.0762** | **0.0288** | <0.00856 J3 | <0.0078 | <0.0121 | <0.00758 | <0.00744 J3 | <0.00875 | <0.00685 | <0.00599 | <0.00778 | <0.00787 | <0.00755 | <0.137 | <0.00676 | **2.84** |
| n-Butylbenzene | NS | NS | 5.8E+04 | **0.275** | <0.00781 | <0.00785 | <0.00959 | <0.00997 | <0.00957 | <0.00812 | <0.00741 | <0.00704 | <0.00717 | <0.00839 | <0.013 | <0.00815 | <0.00801 | <0.00942 | <0.00737 | <0.00644 | <0.00837 | <0.00846 | <0.00813 | **0.51** | <0.00729 | **1.48** |
| n-Propylbenzene | NS | NS | 2.4E+04 | **0.0242** | **0.0134** | **0.00775** | <0.00157 | <0.0018 | **0.0348** | <0.00147 | **0.0164** | <0.00127 | <0.0013 | <0.00152 | <0.00235 | <0.00147 | <0.00145 | <0.0017 | <0.00133 | <0.00117 | <0.00151 | <0.00153 | <0.00147 | **0.188** | <0.00132 | **3.66** |
| p-Isopropyltoluene | NS | NS | NS | **0.0646** | <0.0038 | <0.00381 | <0.00422 | <0.00484 | <0.00422 | <0.00394 | **0.0184** | <0.00342 | <0.00348 | <0.00407 | <0.0063 | <0.00396 | <0.00389 | <0.00457 | <0.00358 | <0.00313 | <0.00407 | <0.00411 | <0.00395 | <0.0715 | <0.00354 | **0.313** |
| sec-Butylbenzene | NS | NS | 1.2E+05 | **0.0235** | <0.00429 | <0.00431 | <0.00476 | <0.00546 | <0.00475 | <0.00446 | <0.00406 | <0.00386 | <0.00393 | <0.0046 | <0.0072 | <0.00447 | <0.00439 | <0.00516 | <0.00404 | <0.00353 | <0.00459 | <0.00464 | <0.00445 | **0.474** | <0.004 | **0.693** |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.000374 | <0.000341 | <0.000342 | <0.000379 | <0.000435 | <0.000379 | <0.000354 | <0.000323 | <0.000307 | <0.000313 | <0.000366 | <0.000565 | <0.000356 | <0.000349 | <0.000411 | <0.000322 | <0.000281 | <0.000365 | <0.000369 | <0.000355 | <0.00642 | <0.000318 | <0.00035 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.00319 | <0.0029 | <0.00292 | <0.00323 | <0.0037 J4 | <0.00322 J4 | <0.00302 J4 | <0.00275 | <0.00262 | <0.00266 | <0.00312 | <0.00482 | <0.00303 | <0.00297 | <0.0035 | <0.00274 | <0.00239 | <0.00311 | <0.00314 | <0.00302 | <0.0547 J4 | <0.00271 J4 | <0.00298 J4 |
| Tetrachloroethene | 3.3E+01 | 2.7E+00 | — | **0.00984** | <0.00133 | <0.00134 | <0.00148 | **0.018** | <0.00148 | <0.00139 | <0.00128 | **0.0037** | <0.00122 | <0.00143 | <0.00221 | **0.00435** | <0.00137 | <0.00161 | <0.00126 | <0.0011 | <0.00143 | <0.00144 | <0.00139 | <0.0251 | <0.00124 | <0.00137 |
| Toluene | 4.7E+03 | 5.3E+03 | — | **0.024** | <0.00194 | <0.00194 | <0.00215 | **0.0248** | **0.087** | <0.00201 | **0.0344** | **0.00976** | <0.00177 | <0.00208 | <0.00321 | <0.00202 | <0.00198 | <0.00233 | <0.00183 | <0.00159 | <0.00207 | <0.0021 | <0.00201 | <0.0365 | <0.00181 | **0.0928** |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.0017 | <0.00155 | <0.00156 | <0.00172 | <0.00197 | <0.00172 | <0.00161 | <0.00147 | <0.0014 | <0.00142 | <0.00166 | <0.00257 | <0.00161 | <0.00159 | <0.00187 | <0.00146 | <0.00128 | <0.00166 | <0.00168 | <0.00161 | <0.0292 | <0.00144 | <0.00159 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00186 | <0.0017 | <0.0017 | <0.00189 | <0.00216 | <0.00188 | <0.00175 | <0.00161 | <0.00153 | <0.00155 | <0.00182 | <0.00282 | <0.00177 | <0.00174 | <0.00204 | <0.0016 | <0.0014 | <0.00182 | <0.00184 | <0.00175 | <0.032 | <0.00158 | <0.00174 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | **0.0866** | <0.000869 | <0.000873 | <0.000966 | **0.00204** | <0.000964 | **0.00334** | **0.00436** | <0.000783 | <0.000797 | <0.000933 | **0.0831** | **0.145** | <0.000891 | <0.00105 | <0.00082 | <0.000716 | <0.000931 | <0.000942 | <0.000904 | <0.0164 | <0.000811 | <0.000891 |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.00135 | <0.00123 | <0.00124 | <0.00137 | <0.00157 | <0.00137 | <0.00128 | <0.00117 | <0.00111 | <0.00113 | <0.00132 | <0.00204 | <0.00128 | <0.00126 | <0.00148 | <0.00116 | <0.00101 | <0.00132 | <0.00133 | <0.00128 J4R | <0.0231 | <0.00115 | <0.00126 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.0019 | <0.00173 | <0.00173 | <0.00192 | <0.00221 | <0.00192 | <0.0018 | <0.00164 | <0.00156 | <0.00158 | <0.00185 | <0.00287 | <0.0018 | <0.00177 | <0.00208 | <0.00163 J3 | <0.00142 | <0.00185 | <0.00187 | <0.0018 | <0.0325 | <0.00161 | <0.00177 |
| Xylenes, Total | 2.4E+03 | 2.6E+03 | — | **0.137** | **0.0489** | **0.0099** | <0.00146 | **0.0484** | **0.0447** | <0.00136 | **0.0982** | **0.0238** | <0.0012 | <0.00141 | <0.00217 | <0.00137 | <0.00134 | <0.00158 | <0.00124 | <0.00108 | <0.0014 | <0.00142 | <0.00136 | <0.0247 | <0.00122 | **0.333** |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | P-01 | P-02 | P-06 | P-09 | P-10 | P-11-12.5 | SVP-06-5 | SVP-10-5 | SVP-25-5 | SVP-38-5 | SVP-38-5 | SVP-45-5 | SVP-53-5 | SVP-57-5 | SVP-61-4 | SVP-62-4 | UC-A2-1 | UC-A2-1 | UC-A2-1 | UC-A3-1 | UC-A3-1 | UC-A3-1 | UC-B4-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 16.5 | 12.5 | 5.0 | 5.0 | 18.5 | 12.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.0 | 5.0 | 4.0 | 4.0 | 2.0 | 5.0 | 10.0 | 2.0 | 5.0 | 10.0 | 2.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/24/2024 | 5/28/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/28/2024 | 5/24/2024 | 5/24/2024 | 5/28/2024 | 5/29/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.9E+00 | — | <0.114 | <0.00154 | <0.00112 | <0.00149 | <0.00137 | <0.00129 | <0.00154 | <0.00155 | <0.00154 | <0.00162 | <0.00163 | <0.00133 | <0.00155 | <0.0167 | <0.00138 | <0.0018 | <0.00116 | <0.00164 | <0.00138 | <0.00135 | <0.00169 | <0.00146 | <0.00139 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.111 | <0.0015 | <0.00109 | <0.00145 | <0.00133 | <0.00126 | <0.0015 | <0.00151 | <0.0015 | <0.00158 | <0.00158 | <0.00129 | <0.00151 | <0.0162 | <0.00134 | <0.00176 | <0.00113 | <0.0016 | <0.00134 | <0.00131 | <0.00164 | <0.00142 | **0.0141** |
| 1,1,2,2-Tetrachloroethane | 4.5E+01 | 2.7E+00 | — | <0.0838 | <0.00113 | <0.000821 | <0.00109 | <0.001 | <0.000946 | <0.00113 | <0.00114 | <0.00113 | <0.00119 | <0.00119 | <0.000973 | <0.00113 | <0.0122 | <0.00101 | <0.00132 | <0.000852 | <0.0012 | <0.00101 | <0.000989 | <0.00123 | <0.00107 | <0.00102 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.072 | <0.00097 | <0.000705 | <0.000936 | <0.00086 | <0.000812 | <0.000968 | <0.000976 | <0.00097 | <0.00102 | <0.00103 | <0.000835 | <0.000974 | <0.0105 | <0.000867 | <0.00114 | <0.000732 | <0.00103 | <0.000867 | <0.00085 | <0.00106 | <0.000921 | <0.000876 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.0909 | <0.00122 | <0.000891 | <0.00118 | <0.00109 | <0.00103 | <0.00122 | <0.00123 | <0.00123 | <0.00129 | <0.00129 | <0.00105 | <0.00123 | <0.0133 | <0.00109 | <0.00143 | <0.000924 | <0.00131 | <0.00109 | <0.00107 | <0.00134 | <0.00116 | <0.00111 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.0582 | <0.000798 | **0.0311** | <0.00077 | <0.000707 | <0.000668 | <0.000786 | <0.000803 | <0.000788 | <0.000841 | <0.000843 | <0.000687 | <0.000801 | <0.00866 | <0.000713 | <0.000935 | <0.000602 | <0.000851 | <0.000713 | <0.000699 | <0.000872 | <0.000757 | **0.0725** |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.0731 | <0.000984 | <0.000716 | <0.00095 | <0.000873 | <0.000825 | <0.000992 | <0.000991 | <0.000985 | <0.00104 | <0.00104 | <0.000848 | <0.000989 | <0.0107 | <0.00086 | <0.00116 | <0.000743 | <0.00105 | <0.00088 | <0.000862 | <0.00108 | <0.000934 | <0.000899 |
| 1,1-Dichloropropene | NS | NS | NS | <0.0975 | <0.00131 | <0.000956 | <0.00127 | <0.00117 | <0.0011 | <0.00131 | <0.00132 | <0.00131 | <0.00139 | <0.00139 | <0.00113 | <0.00132 | <0.0143 | <0.00117 | <0.00154 | <0.000992 | <0.0014 | <0.00117 | <0.00115 | <0.00144 | <0.00125 | <0.00119 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.883 | <0.0119 | <0.00866 | <0.0115 | <0.0106 | <0.00998 | <0.0119 | <0.012 | <0.0119 | <0.0126 | <0.0126 | <0.0103 | <0.012 | <0.129 | <0.0106 | <0.014 | <0.00898 | <0.0127 | <0.0106 | <0.0104 | <0.013 | <0.0113 | <0.0108 |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.196 ' | <0.00263 | <0.00191 | <0.00254 | <0.00233 | <0.0022 | <0.00263 | <0.00265 | <0.00263 | <0.00277 | <0.00278 | <0.00227 | <0.00264 | <0.0285 | <0.00235 | <0.00309 | <0.00199 | <0.00281 | <0.00235 | <0.00231 | <0.00287 | <0.0025 | <0.00238 |
| 1,2,4-Trimethylbenzene | NS | NS | 2.0E+03 | **8.3** | <0.00257 | <0.00187 | <0.00248 | <0.00228 | <0.00215 | <0.00256 | <0.00258 | <0.00257 | **0.0288** | **0.0808** | **0.00797** | <0.00258 | **1.37** | <0.00229 | **0.0107** | <0.00194 | <0.00274 | <0.00229 | <0.00225 | <0.00281 | <0.00244 | **0.0484** |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.531 | <0.00715 | <0.0052 | <0.0069 | <0.00634 | <0.00599 | <0.00713 | <0.0072 | <0.00715 | **0.12** | **0.0887** | <0.00616 | <0.00718 | <0.0775 | <0.00639 | <0.00838 | <0.00539 | <0.00762 | <0.00639 | <0.00626 | <0.00781 | <0.00678 | <0.00646 |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | <0.19 | <0.00257 | <0.00187 | <0.00248 | <0.00228 | <0.00215 | <0.00256 | <0.00258 | <0.00257 | <0.00271 | **0.012** | <0.00258 | **0.512** | <0.00229 | **0.0176** | <0.00184 | <0.00274 | <0.00229 | <0.00225 | <0.00281 | <0.00244 | **0.105** |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.47 ' | <0.00633 | <0.00461 | <0.00612 | <0.00562 | <0.00531 | <0.00632 | <0.00638 | <0.00634 | <0.00668 | <0.0067 | <0.00546 | <0.00636 | <0.0688 ' | <0.00565 | <0.00742 | <0.00478 | <0.00675 | <0.00566 | <0.00555 | <0.00693 | <0.00601 | <0.00572 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.0781 | <0.00105 | <0.000766 | <0.00102 | <0.000933 | <0.000882 | <0.00105 | <0.00106 | <0.00105 | <0.00111 | <0.00111 | <0.000907 | <0.00106 | <0.0114 | <0.000941 | <0.00124 | <0.000794 | <0.00112 | <0.000941 | <0.000922 | <0.00115 | <0.000999 | <0.000951 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.0512 | <0.00069 | **0.00938** | **0.0168** | <0.000612 | <0.000578 | <0.000689 | <0.000695 | <0.000691 | **0.39** | **0.275** | <0.000595 | <0.000694 | <0.00749 | <0.000617 | <0.00081 | <0.000521 | <0.000736 | <0.000617 | <0.000605 | <0.000755 | <0.000655 | <0.000624 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.0782 | <0.00105 | <0.000767 | <0.00102 | <0.000935 | <0.000883 | <0.00105 | <0.00106 | <0.00105 | <0.00111 | <0.00111 | <0.000909 | <0.00106 | <0.0114 | <0.000942 | <0.00124 | <0.000795 | <0.00112 | <0.000942 | <0.000924 | <0.00115 | <0.001 | <0.000952 |
| 1,2-Dichloropropane | 6.8E+01 | 4.4E+00 | — | <0.172 | <0.00231 | <0.00168 | <0.00223 | <0.00205 | <0.00193 | <0.0023 | <0.00232 | <0.00231 | <0.00243 | <0.00244 | <0.00199 | <0.00232 | <0.025 | <0.00206 | <0.00271 | <0.00174 | <0.00246 | <0.00206 | <0.00202 | <0.00252 | <0.00219 | <0.00208 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | **2.23** | <0.00325 | <0.00236 | <0.00314 | <0.00288 | <0.00272 | <0.00324 | <0.00327 | <0.00325 | <0.00342 | <0.00343 | <0.0028 | <0.00326 | **0.19** | <0.00261 | <0.00381 | <0.00245 | <0.00346 | <0.0029 | <0.00285 | <0.00355 | <0.00308 | **0.042** |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.0723 | <0.000975 | <0.000709 | <0.000941 | <0.000864 | <0.000817 | <0.000972 | <0.000981 | <0.000975 | **0.288** | **0.223** | <0.00084 | <0.000979 | <0.0106 | <0.000871 | <0.00114 | <0.000735 | <0.00104 | <0.000871 | <0.000854 | <0.00107 | <0.000925 | <0.000881 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.0604 | <0.000814 | <0.000592 | <0.000785 | <0.000722 | <0.000682 | <0.000812 | <0.000819 | <0.000814 | <0.000858 | <0.00086 | <0.000701 | <0.000818 | <0.00883 | <0.000727 | <0.000955 | <0.000614 | <0.000867 | <0.000728 | <0.000713 | <0.000889 | <0.000773 | <0.000735 |
| 1,4-Dichlorobenzene | 2.8E+02 | 1.2E+01 | — | <0.0844 | <0.00114 | <0.000827 | <0.0011 | <0.00101 | <0.000953 | <0.00113 | <0.00114 | <0.00114 | **1.42** | **0.856** | <0.00098 | <0.00114 | <0.0123 | **0.00852** | <0.00133 | <0.000858 | <0.00121 | <0.00102 | <0.000996 | <0.00124 | <0.00108 | <0.00103 |
| 2,2-Dichloropropane | NS | NS | NS | <0.165 | <0.00224 | <0.00163 | <0.00215 | <0.00198 | <0.00188 J3 | <0.00224 | <0.00226 | <0.00224 | <0.00235 | <0.00237 | <0.00193 | <0.00225 J3 | <0.0244 J3 | <0.002 | <0.00263 | <0.00169 | <0.00239 | <0.002 | <0.00196 | <0.00245 | <0.00213 | <0.00203 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <7.66 J4 | <0.103 J4 | <0.075 J4 | <0.0998 J4 | <0.0915 | <0.0864 | <0.103 | <0.104 | <0.103 | <0.109 | <0.109 | <0.0889 | <0.104 | <1.12 | <0.0922 | <0.12 | <0.0778 J4 | <0.111 J4 | <0.0922 J4 | <0.0904 J4 | <0.113 J4 | <0.0979 J4 | <0.0932 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.104 | <0.00141 | <0.00102 | <0.00136 | <0.00125 | <0.00118 | <0.0014 | <0.00141 | <0.00141 | <0.00148 | <0.00149 | <0.00121 | <0.00141 | <0.0152 | <0.00126 | <0.00165 | <0.00106 | <0.0015 | <0.00126 | <0.00123 | <0.00154 | <0.00133 | <0.00127 |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.0163** | **0.0158** | **0.0149** | **0.0153** | **0.0166** | **0.0163** | **0.0167** | **0.0193** | **0.017** | **0.0212** | **0.0192** | **0.0172** | **0.016** | **0.0173** | **0.0174** | **0.017** | **0.0169** | **0.017** | **0.0167** | **0.0169** | **0.0169** | **0.0171** | **0.0165** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.0543 | <0.000731 | <0.000532 | <0.000706 | <0.000648 | <0.000612 | <0.000729 | <0.000736 | <0.000731 | <0.000771 | <0.000773 | <0.00063 | <0.000734 | <0.00794 | <0.000653 | <0.000857 | <0.000552 J4 | <0.000779 | <0.000653 | <0.00064 | <0.000799 | <0.000694 | <0.00066 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.274 | <0.0037 | <0.00269 | <0.00358 | <0.00328 | <0.0031 | <0.0037 | <0.00373 | <0.00371 | <0.0039 | <0.00391 | <0.00319 | <0.00372 | <0.0401 | <0.00331 | <0.00434 | <0.00279 | <0.00395 | <0.00331 | <0.00324 | <0.00405 | <0.00352 | <0.00335 |
| Acetone | 2.7E+05 | 6.7E+05 | — | <4.4 | <0.0593 | <0.0431 | <0.0572 | <0.0526 J3 | <0.0497 | <0.0592 | <0.0597 | <0.0593 | <0.0625 | <0.0627 | <0.0511 | <0.0596 | <0.644 | <0.053 | <0.0695 | <0.0447 J4 | <0.0632 J4 | <0.053 J4 | <0.0519 J4 | <0.0648 J4 | <0.0563 J4 | <0.0536 J4 |
| Acrylonitrile | NS | NS | 1.1E+00 | <0.436 | <0.00585 | <0.00426 | <0.00565 | <0.0052 | <0.00491 | <0.00585 | <0.0059 | <0.00587 | <0.00618 | <0.0062 | <0.00505 | <0.00589 | <0.0636 | <0.00524 | <0.00687 | <0.00442 | <0.00625 J4 | <0.00524 J4 | <0.00514 J4 | <0.00641 J4 | <0.00557 J4 | <0.0053 |
| Benzene | 3.3E+01 | 1.4E+00 | — | **3.55** | <0.000759 | **0.0115** | <0.000732 | <0.000673 | <0.000636 | <0.000757 | <0.000764 | <0.000759 | **0.00226** | **0.00204** | **0.0114** | <0.000762 | **0.0366** | **0.00518** | **0.00576** | <0.000572 | <0.000809 | <0.000678 | <0.000655 | <0.000829 | <0.00072 | **0.307** |
| Bromobenzene | NS | NS | 1.8E+03 | <0.109 | <0.00146 | <0.00106 | <0.00141 | <0.0013 | <0.00122 | <0.00146 | <0.00147 | <0.00146 | <0.00154 | <0.00155 | <0.00126 | <0.00147 | <0.0159 | <0.00131 | <0.00171 | <0.0011 | <0.00156 | <0.00131 | <0.00128 | <0.0016 | <0.00139 | <0.00132 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.0874 | <0.00118 | <0.000857 | <0.00114 | <0.00104 | <0.000987 | <0.00118 | <0.00119 | <0.00118 | <0.00124 | <0.00124 | <0.00102 | <0.00118 | <0.0128 | <0.00105 | <0.00138 | <0.000889 | <0.00126 | <0.00105 | <0.00103 | <0.00129 | <0.00112 | <0.00105 |
| Bromoform | 1.2E+03 | 8.0E+01 | — | <0.141 | <0.0019 | <0.00138 | <0.00184 | <0.00169 | <0.00159 | <0.0019 | <0.00191 | <0.0019 | <0.002 | <0.00201 | <0.00164 | <0.00191 | <0.0207 | <0.0017 | <0.0023 | <0.00143 | <0.00203 | <0.0017 | <0.00167 | <0.00207 | <0.0018 | <0.00172 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.238 | <0.0032 | <0.00233 | <0.00309 | <0.00284 J3 | <0.00268 | <0.00319 | <0.00322 | <0.0032 | <0.00337 | <0.00338 | <0.00275 | <0.00321 | <0.0348 | <0.00286 | <0.00375 | <0.00241 | <0.00341 | <0.00286 | <0.0028 | <0.00349 | <0.00304 | <0.00289 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.108 | <0.00145 | <0.00106 | <0.00141 | <0.00129 | <0.00122 | <0.00145 | <0.00147 | <0.00146 | <0.00154 | <0.00154 | <0.00125 | <0.00147 | <0.0158 | <0.0013 | <0.00171 | <0.0011 | <0.00155 | <0.0013 | <0.00128 | <0.0016 | <0.00138 | <0.00132 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.0253 | <0.000341 | **0.0552** | **0.00536** | <0.000302 | <0.000286 | <0.0004 | <0.000343 | <0.000341 | <0.00036 | <0.000361 | <0.000294 | <0.000343 | <0.00371 | <0.000305 | <0.0004 | <0.000257 | <0.000364 | <0.000305 | <0.000299 | <0.000373 | <0.000324 | <0.000308 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.0739 | <0.000994 | <0.000723 | <0.00096 | <0.000881 | <0.000833 | <0.000992 | <0.001 | <0.000995 | <0.00105 | <0.00105 | <0.000857 | <0.000999 | <0.0108 | <0.000888 | <0.00117 | <0.00075 | <0.00106 | <0.000888 | <0.000871 | <0.00109 | <0.000944 | <0.000898 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.205 | <0.00276 | <0.00201 | <0.00267 | <0.00245 | <0.00231 | <0.00276 | <0.00278 | <0.00276 | <0.00291 | <0.00292 | <0.00238 | <0.00277 | <0.03 | <0.00247 | <0.00324 | <0.00208 | <0.00294 | <0.00247 | <0.00242 | <0.00302 | <0.00262 | <0.00248 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.124 | <0.00167 | <0.00122 | <0.00162 | <0.00148 | <0.0014 | <0.00167 | <0.00168 | <0.00167 | <0.00176 | <0.00177 | <0.00144 | <0.00168 | <0.0181 | <0.0015 | <0.00196 | <0.00126 | <0.00178 | <0.0015 | <0.00147 | <0.00183 | <0.00159 | <0.00151 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.525 | <0.00707 | <0.00514 | <0.00682 | <0.00627 | <0.00592 | <0.00705 | <0.00712 | <0.00707 | <0.00745 | <0.00747 | <0.00609 | <0.0071 | <0.0766 | <0.00631 | <0.00828 | <0.00533 | <0.00753 | <0.00632 | <0.00619 | <0.00772 | <0.00671 | <0.00638 |
| cis-1,2-Dichloroethene | 7.8E+01 | 3.5E+01 | — | <0.0885 | <0.00119 | **0.00899** | **0.232** | <0.00106 | <0.000999 | <0.00119 | <0.0012 | <0.00119 | <0.00126 | <0.00126 | **0.0118** | <0.0012 | <0.0129 | <0.00107 | <0.0014 | <0.0009 | <0.00127 | <0.00107 | <0.00104 | <0.0013 | <0.00113 | <0.00108 |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.0913 | <0.00123 | <0.000894 | <0.00119 | <0.00109 | <0.00103 | <0.00123 | <0.00124 | <0.00123 | <0.0013 | <0.0013 | <0.00106 | <0.00124 | <0.0133 | <0.0011 | <0.00145 | <0.000928 | <0.00131 | <0.0011 | <0.00108 | <0.00134 | <0.00117 | <0.00111 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.0904 | <0.00122 | <0.000886 | <0.00118 | <0.00108 | <0.00102 | <0.00122 | <0.00123 | <0.00122 | <0.00128 | <0.00129 | <0.00105 | <0.00122 | <0.0132 | <0.00109 | <0.00143 | <0.000919 | <0.0013 | <0.00109 | <0.00107 | <0.00133 | <0.00116 | <0.0011 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.194 | <0.00262 | <0.0019 | <0.00253 | <0.00232 J3 | <0.00219 | <0.00261 | <0.00263 | <0.00262 | <0.00275 | <0.00276 | <0.00225 | <0.00263 | <0.0283 | <0.00234 | <0.00306 | <0.00197 | <0.00279 | <0.00234 | <0.00229 | <0.00286 | <0.00248 | <0.00235 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.0484 | <0.000666 | <0.000484 | <0.000643 | <0.000591 | <0.000558 | <0.000665 | <0.000671 | <0.000666 | <0.000702 | <0.000704 | <0.000574 | <0.000669 | <0.00723 | <0.000595 | <0.000781 | <0.000503 | <0.00071 | <0.000595 | <0.000583 | <0.000728 | <0.000632 | <0.000602 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | **76.4** | <0.0012 | **0.00324** | <0.00116 | <0.00105 | <0.001 | <0.00119 | <0.00121 | <0.0012 | <0.00125 | <0.00127 | **0.0107** | <0.0012 | **0.207** | <0.00107 | **0.0168** | <0.000803 | <0.00128 | <0.00107 | <0.00105 | <0.00131 | <0.00114 | **0.118** |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | — | <0.723 | <0.00975 | <0.00709 | <0.00941 | <0.00864 J3 | <0.00817 | <0.00972 | <0.00981 | <0.00975 | <0.0103 | <0.0103 | <0.0084 | <0.00979 | <0.106 | <0.00871 | <0.0114 | <0.00735 | <0.0104 J3 | <0.00871 J3 | <0.00854 J3 | <0.0107 J3 | <0.00925 J3 | <0.00881 |
| Isopropylbenzene | NS | NS | NS | **21.8** | <0.00069 | <0.000502 | <0.000667 | <0.000612 | <0.000578 | <0.000689 | **0.0144** | <0.000691 | **0.834** | **1.1** | <0.000597 | <0.000694 | **0.198** | **0.0105** | <0.00081 | <0.000521 | <0.000736 | <0.000617 | <0.000605 | <0.000755 | <0.000655 | **0.0178** |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.0422 | <0.000569 | <0.000413 | <0.000549 | <0.000504 | <0.000476 | <0.000567 | <0.000572 | <0.000569 | <0.000599 | <0.000601 | <0.00049 | <0.000571 | <0.00618 | <0.000508 | <0.000667 | <0.000429 | <0.000605 | <0.000508 | <0.000498 | <0.000622 | <0.00054 | <0.000514 |
| Methylene Chloride | 4.9E+02 | 2.5E+01 | — | <0.8 | <0.0108 | <0.00784 | <0.0104 | <0.00956 | <0.00904 | <0.0108 | <0.0109 | <0.0108 | <0.0114 | <0.0114 | <0.0093 | <0.0108 | <0.117 | <0.00964 | <0.0126 | <0.00814 | <0.0115 | <0.00964 | <0.00945 | <0.0118 | <0.0102 | <0.00974 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | **46.8** | <0.00793 | <0.0577 | <0.00765 | <0.00703 | <0.00664 | <0.00791 | <0.00798 | <0.00793 | <0.00835 | <0.00838 | **0.0216** | **0.299** | **2.89** | <0.00708 | **0.311** | <0.00598 J3 | <0.00845 | <0.00709 | <0.00695 | <0.00867 | <0.00752 | **0.193** |
| n-Butylbenzene | NS | NS | 5.8E+04 | **33.6** | <0.00853 | <0.0062 | <0.00823 | <0.00756 | <0.00714 | <0.00851 | **0.0487** | <0.00853 | **2.82** | **2.3** | <0.00735 | <0.00857 | **0.454** | **0.0338** | **0.0262** | <0.00643 | <0.00909 | <0.00762 | <0.00747 | <0.00932 | <0.0081 | <0.0077 |
| n-Propylbenzene | NS | NS | 2.4E+04 | **77.8** | <0.00154 | <0.00112 | <0.00149 | <0.00137 | <0.00129 | <0.00154 | **0.0329** | <0.00154 | **0.702** | **0.523** | <0.00133 | <0.00155 | **0.228** | <0.00139 | **0.0119** | <0.00116 | <0.00164 | <0.00138 | <0.00135 | <0.00169 | <0.00146 | **0.0345** |
| p-Isopropyltoluene | NS | NS | NS | <0.307 | <0.00414 | <0.00301 | <0.004 | <0.00367 | <0.00347 | <0.00413 | <0.00417 | <0.00414 | <0.00437 | <0.00438 | **0.0277** | <0.00416 | **0.357** | <0.0037 | **0.0368** | <0.00313 | <0.00442 | <0.0037 | <0.00363 | <0.00453 | <0.00393 | **0.0346** |
| sec-Butylbenzene | NS | NS | 1.2E+05 | **18.1** | <0.00468 | <0.0034 | <0.00452 | <0.00415 | <0.00392 | <0.00467 | **0.0515** | <0.00468 | **1.92** | **1.7** | <0.0403 | <0.0047 | **0.228** | **0.0193** | <0.00458 | <0.00353 | <0.0049 | <0.0041 | <0.0041 | <0.00512 | <0.00444 | <0.00423 |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.0276 | <0.000372 | <0.000271 | <0.000358 | <0.00033 | <0.000312 | <0.000371 | <0.000375 | <0.000372 | <0.000392 | <0.000393 | <0.000321 | <0.000374 | <0.00403 | <0.000332 | <0.000436 | <0.000281 | <0.000397 | <0.000333 | <0.000326 | <0.000407 | <0.000353 | <0.000335 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.235 J4 | <0.00317 J4 | <0.0023 J4 | <0.00306 J4 | <0.00281 | <0.00265 | <0.00316 | <0.00319 | <0.00317 | **0.184** | **0.13** | <0.00273 | <0.00318 | <0.0343 | <0.00283 | <0.00372 | <0.00239 | <0.00338 | <0.00283 | <0.00278 | <0.00346 | <0.00301 | <0.00286 |
| Tetrachloroethene | 3.3E+01 | 2.7E+00 | — | <0.108 | <0.00146 | <0.00106 | <0.00141 | **0.00612** | <0.00122 | <0.00145 | <0.00147 | <0.00146 | <0.00153 | <0.00154 | <0.00125 | <0.00146 | <0.0158 | <0.0013 | <0.00171 | <0.0011 | <0.00155 | <0.0013 | <0.00128 | <0.0016 | <0.00138 | <0.00131 |
| Toluene | 4.7E+03 | 5.3E+03 | — | **0.896** | <0.00211 | **0.00599** | <0.00204 | <0.00187 | <0.00177 | <0.00211 | <0.00213 | <0.00211 | <0.00223 | <0.00223 | **0.0146** | <0.00212 | <0.023 | <0.00189 | **0.0177** | <0.00159 | <0.00225 | <0.00189 | <0.00185 | <0.00231 | <0.002 | **0.409** |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.125 | <0.00169 | <0.00123 | **0.0091** | <0.0015 | <0.00142 | <0.00169 | <0.0017 | <0.00169 | <0.00178 | <0.00179 | <0.00146 | <0.0017 | <0.0184 | <0.00151 | <0.00198 | <0.00127 | <0.0018 | <0.00151 | <0.00148 | <0.00185 | <0.0016 | <0.00153 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.137 | <0.00185 | <0.00135 | <0.00179 | <0.00164 | <0.00155 | <0.00185 | <0.00186 | <0.00185 | <0.00195 | <0.00196 | <0.0016 | <0.00186 | <0.0201 | <0.00165 | <0.00217 | <0.0014 | <0.00197 | <0.00166 | <0.00162 | <0.00203 | <0.00176 | <0.00167 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | <0.0704 | <0.000949 | **0.00324** | **0.00524** | **0.00307** | <0.000795 | <0.000947 | <0.000955 | <0.000949 | <0.001 | <0.001 | <0.000818 | <0.000953 | <0.0103 | <0.000848 | <0.00111 | <0.000716 | <0.00101 | <0.000848 | <0.000831 | <0.00104 | <0.0009 | <0.000857 |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.0988 | <0.00134 | <0.000977 | <0.0013 | <0.00119 | <0.0013 | <0.00134 | <0.00135 | <0.00134 | <0.00142 | <0.00142 | <0.00116 | <0.00135 | <0.0146 | <0.0012 | <0.00157 | <0.00101 | <0.00143 | <0.0012 | <0.00118 | <0.00147 | <0.00128 | <0.00121 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.14 | <0.00188 | **0.00372** | **0.0571** | <0.00167 J3 | <0.00158 | <0.00188 | <0.0019 | <0.00188 | <0.00199 | <0.00199 | <0.00162 | <0.00189 | <0.0204 | <0.00168 | <0.00221 | <0.00142 | <0.00201 | <0.00168 | <0.00165 | <0.00205 | <0.00179 | <0.00167 |
| Xylenes, Total | 2.4E+03 | 2.6E+03 | — | **3.87** | <0.00143 | <0.00104 | <0.00138 | <0.00127 | <0.0012 | <0.00143 | <0.00144 | <0.00143 | **0.139** | **0.123** | **0.0344** | <0.00144 | **0.284** | <0.00128 | **0.0249** | <0.00108 | <0.00152 | <0.00128 | <0.00125 | <0.00157 | <0.00136 | **0.537** |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

**Table 3. Summary of VOCs in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | UC-B4-2 | UC-B4-3-10.0 | UC-H1-1 | UC-H1-1 | UC-H1-1 | UC-H1-1 | UC-H1-1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 5.0 | 10.0 | 2.0 | 4.0 | 5.0 | 8.0 | 10.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSL[2] | 5/23/2024 | 5/23/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (mg/kg)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.9E+02 | 8.9E+00 | — | <0.00124 | <0.00138 | <0.00126 | <0.00163 | <0.00152 | <0.00161 | <0.00142 |
| 1,1,1-Trichloroethane | 7.2E+03 | 7.3E+03 | — | <0.0012 | <0.00134 | <0.00123 | <0.00159 | <0.00148 | <0.00157 | <0.00138 |
| 1,1,2,2-Tetrachloroethane | 4.5E+01 | 2.7E+00 | — | <0.000906 | <0.00101 | <0.000923 | <0.00119 | <0.00111 | <0.00118 | <0.00104 |
| 1,1,2-Trichloroethane | 6.3E+00 | 5.1E+00 | — | <0.000778 | <0.000869 | <0.000793 | <0.00103 | <0.000957 | <0.00102 | <0.000893 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | 2.8E+04 | <0.000983 | <0.0011 | <0.001 | <0.0013 | <0.00121 J3 | <0.00128 | <0.00113 J3 |
| 1,1-Dichloroethane | 3.7E+02 | 1.6E+01 | — | <0.00064 | <0.000715 | <0.000652 | <0.000844 | <0.000787 | <0.000836 | <0.000734 |
| 1,1-Dichloroethene | 3.5E+02 | 3.5E+02 | — | <0.00079 | <0.000882 | <0.000805 | <0.00104 | <0.000972 | <0.00103 | <0.000906 |
| 1,1-Dichloropropene | NS | NS | NS | <0.00105 | <0.00118 | <0.00107 | <0.00139 | <0.0013 | <0.00138 | <0.00121 |
| 1,2,3-Trichlorobenzene | NS | NS | 9.3E+02 | <0.00955 | <0.0107 | <0.00974 | <0.0126 | <0.0118 | <0.0125 | <0.011 |
| 1,2,3-Trichloropropane | 8.3E-01 | 1.1E-01 | — | <0.00211 | <0.00236 | <0.00215 | <0.00278 | <0.0026 J4 | <0.00276 | <0.00242 J4 |
| 1,2,3-Trimethylbenzene | NS | NS | 2.0E+03 | <0.00206 | <0.0023 | <0.0021 | <0.00272 | <0.00253 | <0.00269 | <0.00236 |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.00573 | <0.0064 | <0.00585 | <0.00756 J3 | <0.00705 | <0.00749 J3 | <0.00658 |
| 1,2,4-Trimethylbenzene | NS | NS | 1.8E+03 | <0.00206 | <0.0023 | <0.0021 | <0.00272 | **0.0159** | <0.00269 | <0.00236 |
| 1,2-Dibromo-3-Chloropropane | 1.1E+00 | 5.8E-02 | — | <0.00508 | <0.00568 | <0.00518 | <0.0067 | <0.00625 | <0.00664 | <0.00583 |
| 1,2-Dibromoethane | 3.3E+00 | 1.6E-01 | — | <0.000845 | <0.000943 | <0.000861 | <0.00111 | <0.00104 | <0.0011 | <0.000969 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.000554 | <0.000619 | <0.000565 | <0.000731 | <0.000681 | <0.000724 | <0.000635 |
| 1,2-Dichloroethane | 4.5E+01 | 2.1E+00 | — | <0.000846 | <0.000945 | <0.000862 | <0.00112 | <0.00104 | <0.00111 | <0.00097 |
| 1,2-Dichloropropane | 6.8E+01 | 4.4E+00 | — | <0.00185 | <0.00207 | <0.00189 | <0.00244 | <0.00228 | <0.00242 | <0.00212 |
| 1,3,5-Trimethylbenzene | NS | NS | 1.5E+03 | <0.00201 | <0.00291 | <0.00266 | <0.00344 | **0.016** | **0.0108** | <0.00269 |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.000782 | <0.000873 | <0.000797 | <0.00103 | <0.000962 | <0.00102 | <0.000897 |
| 1,3-Dichloropropane | NS | NS | 2.3E+04 | <0.000653 | <0.000729 | <0.000666 | <0.000861 | <0.000803 | <0.000853 | <0.000749 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.000912 | <0.00102 | <0.00093 | <0.0012 | <0.00112 | <0.00119 | <0.00105 |
| 2,2-Dichloropropane | NS | NS | NS | <0.0018 | <0.00201 | <0.00183 | <0.00237 | <0.00221 | <0.00235 | <0.00206 |
| 2-Butanone (MEK) | 1.2E+05 | 2.0E+05 | — | <0.0828 | <0.0924 | <0.0844 | <0.109 | <0.102 J3 | <0.108 | <0.0949 J3 |
| 2-Chlorotoluene | NS | NS | 2.3E+04 | <0.00113 | <0.00126 | <0.00115 | <0.00149 | <0.00139 | <0.00147 | <0.00129 |
| 4-Bromofluorobenzene | NS | NS | 3.5E+02 | **0.0166** | **0.0166** | **0.0161** | **0.0173** | **0.0165** | **0.0171** | **0.0158** |
| 4-Chlorotoluene | NS | NS | 2.3E+04 | <0.000586 | <0.000655 | <0.000598 | <0.000773 | <0.000721 | <0.000766 | <0.000673 |
| 4-Methyl-2-pentanone (MIBK) | 1.4E+05 | 1.4E+05 | — | <0.00297 | <0.00332 | <0.00303 | <0.00392 | <0.00366 | <0.00388 | <0.00341 |
| Acetone | 2.7E+05 | 6.7E+05 | — | <0.0476 J4 | <0.0531 J4 | <0.0485 | <0.0627 J3 | <0.0585 J3J4 | <0.0622 J3 | <0.0546 J3J4 |
| Acrylonitrile | NS | NS | 1.1E+00 | <0.0047 | <0.00525 | <0.0048 | <0.00621 | <0.00579 | <0.00615 | <0.0054 |
| Benzene | 3.3E+01 | 1.4E+00 | — | **0.00235** | <0.00068 | <0.00062 | <0.000803 | <0.000749 | <0.000795 | <0.000698 |
| Bromobenzene | NS | NS | 1.8E+03 | <0.00117 | <0.00131 | <0.0012 | <0.00155 | <0.00144 | <0.00153 | <0.00135 |
| Bromodichloromethane | 2.8E+01 | 1.3E+00 | — | <0.000945 | <0.00105 | <0.000963 | <0.00125 | <0.00116 | <0.00123 | <0.00108 |
| Bromoform | 1.2E+03 | 8.6E+01 | — | <0.00152 | <0.0017 | <0.00155 | <0.00201 | <0.00188 | <0.00199 | <0.00175 |
| Bromomethane | 2.9E+01 | 3.0E+01 | — | <0.00257 | <0.00287 | <0.00262 | <0.00339 | <0.00316 | <0.00335 | <0.00295 |
| Carbon tetrachloride | 5.3E+01 | 2.7E+00 | — | <0.00117 | <0.00131 | <0.00119 | <0.00154 | <0.00144 | <0.00153 | <0.00134 |
| Chlorobenzene | 1.2E+03 | 1.3E+03 | — | <0.000274 | <0.000306 | <0.000279 | <0.000361 | <0.000337 | <0.000358 | <0.000314 |
| Chlorodibromomethane | 2.9E+02 | 3.9E+01 | — | <0.000798 | <0.000891 | <0.000813 | <0.00105 | <0.000981 | <0.00104 | <0.000915 |
| Chloroethane | 5.9E+04 | 5.9E+04 | — | <0.00222 | <0.00247 | <0.00226 | <0.00292 | <0.00273 | <0.00289 | <0.00254 |
| Chloroform | 3.4E+01 | 1.4E+00 | — | <0.00134 | <0.0015 | <0.00137 | <0.00177 | <0.00165 | <0.00175 | <0.00154 |
| Chloromethane | 4.7E+02 | 4.7E+02 | — | <0.00587 | <0.00633 | <0.00578 | <0.00748 | <0.00697 | <0.00741 | <0.0065 |
| cis-1,2-Dichloroethene | 7.8E+01 | 8.5E+01 | — | <0.000957 | <0.00107 | <0.000976 | <0.00126 | <0.00118 | <0.00125 | <0.0011 |
| cis-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.000987 | <0.0011 | <0.00101 | <0.0013 | <0.00121 | <0.00129 | <0.00113 |
| Dibromomethane | NS | NS | 9.9E+01 | <0.000977 | <0.00109 | <0.000997 | <0.00129 | <0.0012 | <0.00126 | <0.00112 |
| Dichlorodifluoromethane | NS | NS | 3.7E+02 | <0.0021 | <0.00234 | <0.00214 | <0.00277 | <0.00258 | <0.00274 | <0.00241 |
| Di-isopropyl ether | NS | NS | 9.4E+03 | <0.000534 | <0.000597 | <0.000545 | <0.000705 | <0.000657 | <0.000698 | <0.000613 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 | — | <0.000951 | <0.00107 | <0.000879 | <0.00127 | <0.00118 | <0.00126 | <0.0011 |
| Hexachloro-1,3-butadiene | 1.2E+02 | 5.3E+00 | — | <0.00782 | <0.00873 | <0.00797 | <0.0103 | <0.00962 | <0.0102 | <0.00897 |
| Isopropylbenzene | NS | NS | NS | <0.000554 | <0.000619 | <0.000565 | <0.000731 | <0.000681 | <0.000724 | <0.000635 |
| Methyl tert-butyl ether | 4.1E+03 | 2.1E+02 | — | <0.000456 | <0.000509 | <0.000465 | <0.000602 | <0.000561 | <0.000596 | <0.000523 |
| Methylene Chloride | 4.9E+02 | 2.5E+01 | — | <0.00865 | <0.00966 | <0.00882 | <0.0114 | <0.0106 | <0.0113 | <0.00993 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | <0.00636 | <0.0071 | <0.00648 | <0.00839 J3 | <0.00782 | <0.00831 J3 | <0.0073 |
| n-Butylbenzene | NS | NS | 5.8E+04 | <0.00694 | <0.00764 | <0.00698 | <0.00902 | <0.00842 | <0.00894 | <0.00785 |
| n-Propylbenzene | NS | NS | 2.4E+04 | <0.00124 | <0.00135 | <0.00126 | <0.00163 | <0.00152 | <0.00162 | <0.00142 |
| p-Isopropyltoluene | NS | NS | NS | <0.00332 | <0.00371 | <0.00339 | <0.00438 | <0.00409 | **0.00877** | <0.00381 |
| sec-Butylbenzene | NS | NS | 1.2E+05 | <0.00375 | <0.00419 | <0.00383 | <0.00495 | <0.00462 | <0.0049 | <0.00431 |
| Styrene | 2.5E+04 | 3.3E+04 | — | <0.000298 | <0.000333 | <0.000304 | <0.000394 | <0.000367 | <0.00039 | <0.000342 |
| tert-Butylbenzene | NS | NS | 1.2E+05 | <0.00254 | <0.00284 | <0.00259 | <0.00335 | <0.00313 | <0.00332 | <0.00292 |
| Tetrachloroethene | 3.8E+01 | 2.7E+00 | — | <0.00117 | <0.0013 | <0.00119 | <0.00154 | <0.00144 | <0.00153 | <0.00134 |
| Toluene | 4.7E+03 | 5.3E+03 | — | <0.00169 | <0.00189 | <0.00173 | <0.00223 | <0.00208 | <0.00221 | <0.00194 |
| trans-1,2-Dichloroethene | 5.7E+02 | 6.0E+02 | — | <0.00136 | <0.00151 | <0.00138 | <0.00179 | <0.00167 | <0.00177 | <0.00155 |
| trans-1,3-Dichloropropene | NS | NS | 8.2E+00 | <0.00149 | <0.00166 | <0.00151 | <0.00196 | <0.00183 | <0.00194 | <0.0017 |
| Trichloroethene | 1.8E+01 | 6.1E+00 | — | <0.000761 | <0.00085 | <0.000776 | <0.001 | <0.000936 | <0.000994 | <0.000873 |
| Trichlorofluoromethane | NS | NS | 3.5E+05 | <0.00158 | <0.0012 | <0.0011 | <0.00142 | <0.00133 | <0.00141 | <0.00124 |
| Vinyl chloride | 3.4E+00 | 1.5E-01 | — | <0.00151 | <0.00169 | <0.00154 | <0.00199 | <0.00185 | <0.00196 | <0.00173 |
| Xylenes, Total | 2.4E+03 | 2.6E+03 | — | <0.00115 | <0.00128 | <0.00117 | <0.00151 | **0.101** | **0.118** | <0.00132 |

**Notes:**

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Not used

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RSL = Regional Screening Level.

RWQCB = Regional Water Quality Control Board.

USEPA = United States Environmental Protection Agency.

VOCs = Volatile Organic Compounds.

VOCs analyzed by United States Environmental Protection Agency (EPA) Method 8260B.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

**Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | USEPA | BS-B1-1 | BS-B1-1 | BS-B1-1 | BS-C1-1 | BS-C1-1 | BS-C1-1 | BS-D1-1 | BS-D1-1 | BS-D1-1 | BS-E1-1 | BS-E1-1 | BS-E1-1 | BS-F1-1 | BS-F1-1 | BS-F1-1 | BS-G1-1 | BS-G1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | Industrial | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | RSLs[2] | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 | 5/29/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | — | <0.0252 | <0.0243 | <0.134 | <0.0225 | <0.0111 R | <0.0136 R | <0.115 | <0.0229 | <0.114 | <0.127 | <0.0235 | <0.0141 | <0.0122 | <0.114 | <0.114 | <0.024 | <0.0121 | <0.0235 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | — | <0.0235 | <0.023 | <0.127 | <0.0213 | <0.0106 | <0.0129 | <0.109 | <0.0217 | <0.108 | <0.12 | <0.0222 | <0.0134 | <0.0116 | <0.108 | <0.108 | <0.0227 | <0.0115 | <0.0225 |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.0244 | <0.0236 | <0.13 | <0.0218 | <0.0108 | <0.0132 | <0.112 | <0.0222 | <0.111 | <0.123 | <0.0226 | <0.0137 | <0.0119 | <0.11 | <0.11 | <0.0235 | <0.0118 | <0.0231 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | — | <0.024 | <0.0231 | <0.128 | <0.0214 | <0.0106 | <0.013 | <0.11 | <0.0218 | <0.109 | <0.121 | <0.0224 | <0.0134 | <0.0116 | <0.108 | <0.108 | <0.0229 | <0.0116 | <0.0226 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | — | <0.0348 | <0.0336 | <0.186 | <0.0311 | <0.0154 | <0.0189 | <0.159 | <0.0317 | <0.158 | <0.175 | <0.0325 | <0.0195 | <0.0169 | <0.158 | <0.157 | <0.0332 | <0.0168 | <0.0328 |
| 2,4,6-Tribromophenol | NS | NS | 7.4E+03 | **0.502** | **0.575** | **0.539** | **0.348** | **0.279** | **0.32** | **0.518** | **0.558** | **0.447** | **0.81** | **0.477** | **0.386** | **0.322** | **0.264** | **0.235** | **0.481** | **0.417** | **0.562** |
| 2,4,6-Trichlorophenol | 3.5E+02 | 4.7E+01 | — | <0.0256 | <0.025 | <0.138 | <0.0231 | <0.0115 | <0.014 | <0.118 | <0.0235 | <0.118 | <0.13 | <0.0242 | <0.0145 | <0.0126 | <0.117 | <0.117 | <0.0247 | <0.0125 | <0.0244 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | — | <0.0235 | <0.0226 | <0.125 | <0.021 | <0.0104 | <0.0127 | <0.107 | <0.0213 | <0.107 | <0.118 | <0.0218 | <0.0132 | <0.0114 | <0.106 | <0.106 | <0.0224 | <0.0113 | <0.0222 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | — | <0.0211 | <0.0203 | <0.112 | <0.0188 | <0.00932 | <0.0114 | <0.0962 | <0.0191 | <0.0957 | <0.106 | <0.0196 | <0.0118 | <0.0102 | <0.0952 | <0.0951 | <0.0201 | <0.0102 | <0.0199 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | — | <0.189 | <0.182 | <1 | <0.169 | <0.0834 | <0.102 | <0.862 | <0.172 | <0.857 | <0.948 | <0.176 | <0.106 | <0.0915 | <0.852 | <0.852 | <0.18 | <0.091 | <0.178 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | — | <0.0231 | <0.0223 | <0.123 | <0.0206 | <0.0102 | <0.0125 | <0.106 | <0.021 | <0.105 | <0.116 | <0.0216 | <0.013 | <0.0112 | <0.104 | <0.104 | <0.022 | <0.0112 | <0.0218 |
| 2,6-Dinitrotoluene | NS | NS | 3.4E+00 | <0.0264 | <0.0254 | <0.141 | <0.0236 | <0.0117 | <0.0143 | <0.121 | <0.024 | <0.12 | <0.133 | <0.0246 | <0.0148 | <0.0128 | <0.119 | <0.119 | <0.0252 | <0.0127 | <0.0249 |
| 2-Chloronaphthalene | NS | NS | 6.0E+04 | <0.0142 | <0.0137 | <0.0755 | <0.0126 | <0.00626 | <0.00768 | <0.0647 | <0.0129 | <0.0644 | <0.0712 | <0.0132 | <0.00794 | <0.00687 | <0.064 | <0.064 | <0.0135 | <0.00683 | <0.0134 |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | — | <0.0266 | <0.0257 | <0.142 | <0.0238 | <0.0118 | <0.0144 | <0.122 | <0.0242 | <0.121 | <0.134 | <0.0248 | <0.0148 | <0.0129 | <0.12 | <0.12 | <0.0254 | <0.0128 | <0.0251 |
| 2-Fluorobiphenyl | NS | NS | NS | **0.243** | **0.267** | **0.275** | **0.217** | **0.185** | **0.169** | **0.234** | **0.217** | **0.231** | **0.249** | **0.237** | **0.19** | **0.165** | **0.201** | **0.215** | **0.202** | **0.193** | **0.247** |
| 2-Fluorophenol | NS | NS | NS | **0.506** | **0.532** | **0.593** | **0.495** | **0.367** | **0.383** | **0.592** | **0.436** | **0.538** | **0.522** | **0.478** | **0.372** | **0.319** | **0.403** | **0.408** | **0.388** | **0.379** | **0.491** |
| 2-Nitrophenol | NS | NS | NS | <0.0288 | <0.0278 | <0.154 | <0.0257 | <0.0127 | <0.0156 | <0.132 | <0.0262 | <0.131 | <0.145 | <0.0269 | <0.0161 | <0.014 | <0.13 | <0.13 | <0.0275 | <0.0139 | <0.0272 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | — | <0.0298 | <0.0287 | <0.159 | <0.0266 | <0.0132 | <0.0161 | <0.136 | <0.027 | <0.135 | <0.15 | <0.0278 | <0.0167 | <0.0144 | <0.135 | <0.135 | <0.0284 | <0.0144 | <0.0281 |
| 4,6-Dinitro-2-methylphenol | NS | NS | NS | <0.183 | <0.176 | <0.974 | <0.163 | <0.0806 | <0.0989 | <0.835 | <0.166 | <0.831 | <0.918 | <0.17 | <0.102 | <0.0887 | <0.826 | <0.826 | <0.174 | <0.0882 | <0.172 |
| 4-Bromophenyl-phenylether | NS | NS | NS | <0.0283 | <0.0273 | <0.151 | <0.0253 | <0.0125 | <0.0153 | <0.129 | <0.0257 | <0.129 | <0.142 | <0.0264 | <0.0159 | <0.0137 | <0.128 | <0.128 | <0.027 | <0.0137 | <0.0267 |
| 4-Chloro-3-methylphenol | NS | NS | NS | <0.0291 | <0.0282 | <0.139 | <0.0233 | <0.0116 | <0.0141 | <0.119 | <0.0237 | <0.119 | <0.131 | <0.0244 | <0.0146 | <0.0127 | <0.118 | <0.118 | <0.0249 | <0.0126 | <0.0247 |
| 4-Chlorophenyl-phenylether | NS | NS | NS | <0.0281 | <0.0271 | <0.15 | <0.0251 | <0.0124 | <0.0152 | <0.128 | <0.0255 | <0.128 | <0.141 | <0.0262 | <0.0157 | <0.0136 | <0.127 | <0.127 | <0.0268 | <0.0135 | <0.0265 |
| 4-Nitrophenol | NS | NS | NS | <0.0252 | <0.0243 | <0.134 | <0.0225 | <0.0111 | <0.0136 | <0.115 | <0.0229 | <0.114 | <0.127 | <0.0235 | <0.0141 | <0.0122 | <0.114 | <0.114 | <0.024 | <0.0121 | <0.0238 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | — | <0.0131 | <0.0126 | <0.0685 | <0.0117 | <0.00577 | <0.00706 | <0.0596 | <0.0119 | <0.0593 | <0.0656 | <0.0122 | **0.0461** | <0.00633 | <0.059 | <0.0589 | <0.0125 | <0.00629 | <0.0123 |
| Acenaphthylene | NS | NS | NS | <0.0114 | <0.0109 | <0.0605 | <0.0101 | <0.00502 | <0.00614 | <0.0519 | <0.0103 | <0.0516 | <0.057 | <0.0106 | <0.00636 | <0.00551 | <0.0513 | <0.0513 | <0.0108 | <0.00548 | <0.0107 |
| Anthracene | 5.0E+04 | 2.3E+05 | — | <0.0144 | <0.0139 | <0.0765 | <0.0129 | <0.00635 | <0.00777 | <0.0656 | <0.0131 | <0.0652 | <0.0721 | <0.0134 | <0.00804 | **0.0736** | <0.0649 | <0.0648 | <0.0137 | <0.00693 | <0.0136 |
| Benzidine | NS | NS | 1.0E-02 | <0.151 | <0.146 | <0.808 | <0.135 | <0.067 | <0.082 | <0.692 | <0.137 | <0.689 | <0.761 | <0.141 | <0.0849 | <0.0735 | <0.685 | <0.685 | <0.144 | <0.0731 | <0.143 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | — | <0.0142 | <0.0137 | <0.0757 | <0.0126 | <0.00628 | <0.00768 | <0.0648 | **0.48** | <0.0646 | <0.0714 | **0.164** | <0.00796 | **0.337 J** | **0.415** | **0.44** | <0.0135 | <0.00686 | <0.0134 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | — | <0.015 | <0.0145 | <0.0799 | **0.0769** | <0.00663 | <0.00811 | <0.0685 | **0.545** | <0.0681 | <0.0753 | **0.27** | **0.0689** | **0.513 J** | **0.48** | **0.477** | <0.0143 | <0.00723 | <0.0142 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | — | <0.015 | <0.0145 | <0.0801 | **0.107** | **0.0367** | <0.00814 | <0.0687 | **1.02** | <0.0683 | <0.0755 | **0.4** | **0.0986** | **0.752 J** | **0.804** | <0.0143 | <0.00725 | <0.0142 |
| Benzo(g,h,i)perylene | NS | NS | NS | <0.0148 | <0.0142 | <0.0786 | <0.0132 | <0.00652 | <0.00798 | <0.0674 | **0.334** | <0.067 | <0.0741 | **0.136** | **0.0658** | **0.361 J** | <0.0666 | <0.0665 | <0.0141 | <0.00711 | <0.0139 |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | — | <0.0143 | <0.0138 | <0.0764 | <0.0127 | <0.00634 | <0.00776 | <0.0655 | **0.28** | <0.0651 | <0.072 | **0.12** | <0.00803 | **0.21** | <0.0646 | <0.0647 | <0.0136 | <0.00691 | <0.0135 |
| Benzylbutyl phthalate | NS | NS | NS | <0.0252 | <0.0243 | <0.134 | <0.0225 | <0.0111 | <0.0136 | <0.115 | <0.0229 | <0.114 | <0.127 | <0.0235 | <0.0141 | <0.0122 | <0.114 | <0.114 | <0.024 | <0.0121 | <0.0238 |
| Bis(2-chloroethoxy)methane | NS | NS | 2.5E+03 | <0.0242 | <0.0233 | <0.129 | <0.0216 | <0.0107 | <0.0131 | <0.111 | <0.022 | <0.11 | <0.122 | <0.0226 | <0.0136 | <0.0117 | <0.109 | <0.109 | <0.0231 | <0.0117 | <0.0228 |
| Bis(2-chloroethyl)ether | 8.4E+00 | 4.7E-01 | — | <0.0266 | <0.0257 | <0.142 | <0.0238 | <0.0118 | <0.0144 | <0.122 | <0.0242 | <0.121 | <0.134 | <0.0248 | <0.0149 | <0.0129 | <0.12 | <0.12 | <0.0254 | <0.0128 | <0.0251 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.4E+02 | — | **0.102** | <0.0985 | <0.544 | <0.0912 | <0.0452 | <0.0553 | <0.467 | <0.0928 | <0.464 | <0.513 | <0.0953 | <0.0572 | <0.0466 | <0.462 | <0.461 | <0.0974 | <0.0493 | <0.0964 |
| Chrysene | 9.1E+03 | 2.1E+03 | — | <0.018 | <0.0154 | <0.0854 | **0.0757** | <0.00709 | <0.00867 | <0.0732 | **0.747** | <0.0726 | <0.0805 | **0.215** | **0.0537** | **0.364 J** | **0.586** | **0.626** | <0.0152 | <0.00773 | <0.0151 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | — | <0.0224 | <0.0216 | <0.119 | <0.02 | <0.00998 | <0.0121 | <0.102 | **0.0954** | <0.102 | <0.112 | <0.0209 | <0.0125 | **0.0954** | <0.101 | <0.101 | <0.0214 | <0.0108 | <0.0211 |
| Diethyl phthalate | 1.5E+05 | 6.6E+05 | — | <0.0266 | <0.0257 | <0.142 | <0.0238 | <0.0118 | <0.0144 | <0.122 | <0.0242 | <0.121 | <0.134 | <0.0248 | <0.0148 | <0.0129 | <0.12 | <0.12 | <0.0254 | <0.0128 | <0.0251 |
| Dimethyl phthalate | NS | NS | 1.2E+05 | <0.171 | <0.165 | <0.911 | <0.152 | <0.0756 | <0.0925 | <0.781 | <0.155 | <0.777 | <0.859 | <0.159 | <0.0958 | <0.0829 | <0.772 | <0.772 | <0.163 | <0.0825 | <0.161 |
| Di-n-butyl phthalate | NS | NS | 8.2E+04 | <0.0279 | <0.0268 | <0.147 | <0.0246 | <0.0122 | <0.0149 | <0.126 | <0.0251 | <0.125 | <0.138 | <0.0257 | <0.0155 | <0.0134 | <0.125 | <0.125 | <0.0263 | <0.0133 | <0.0038 |
| Di-n-octyl phthalate | NS | NS | 8.2E+03 | <0.0545 | <0.0525 | <0.29 | <0.0486 | <0.0241 | <0.0295 | <0.249 | <0.0495 | <0.248 | <0.274 | <0.0508 | <0.0305 | <0.0264 | <0.246 | <0.246 | <0.0518 | <0.0263 | <0.0514 |
| Fluoranthene | 9.7E+03 | 3.0E+04 | — | <0.0145 | <0.014 | <0.0775 | **0.0908** | <0.00643 | <0.00787 | <0.0665 | **0.464** | <0.0661 | <0.0731 | **0.169** | **0.0614** | **0.395** | **0.433** | **0.389** | <0.0139 | <0.00702 | <0.0137 |
| Fluorene | 6.7E+03 | 3.0E+04 | — | <0.0131 | <0.0126 | <0.0698 | <0.0117 | <0.0058 | <0.0071 | <0.0599 | <0.0119 | <0.0596 | <0.0658 | <0.0122 | <0.00735 | <0.00636 | <0.0593 | <0.0593 | <0.0125 | <0.00633 | <0.0123 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | — | <0.0271 | <0.0261 | <0.144 | <0.0242 | <0.012 | <0.0147 | <0.124 | <0.0246 | <0.123 | <0.136 | <0.0253 | <0.0152 | <0.0132 | <0.123 | <0.122 | <0.0259 | <0.0131 | <0.0258 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | — | <0.0288 | <0.0275 | <0.152 | <0.0255 | <0.0126 | <0.0155 | <0.131 | <0.0259 | <0.13 | <0.144 | <0.0266 | <0.016 | <0.0139 | <0.129 | <0.129 | <0.0272 | <0.0138 | <0.027 |
| Hexachlorocyclopentadiene | NS | NS | 7.5E+00 | <0.0424 | <0.0408 | <0.226 | <0.0378 | <0.0187 | <0.0229 | <0.194 | <0.0385 | <0.193 | <0.213 | <0.0395 | <0.0237 | <0.0206 | <0.191 | <0.191 | <0.0404 | <0.0204 | <0.04 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | — | <0.0317 | <0.0306 | <0.169 | <0.0283 | <0.014 | <0.0172 | <0.145 | <0.0288 | <0.144 | <0.159 | <0.0296 | <0.0178 | <0.0154 | <0.143 | <0.143 | <0.0302 | <0.0153 | <0.0299 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | — | <0.0227 | <0.0218 | <0.121 | <0.0203 | <0.0101 | <0.0123 | <0.104 | **0.268** | <0.104 | <0.114 | **0.163** | **0.0688** | **0.426 J** | <0.103 | <0.103 | <0.0217 | <0.011 | <0.0216 |
| Isophorone | NS | NS | 2.4E+03 | <0.0247 | <0.0238 | <0.132 | <0.022 | <0.0109 | <0.0134 | <0.113 | <0.0224 | <0.112 | <0.124 | <0.023 | <0.0138 | <0.012 | <0.112 | <0.112 | <0.0235 | <0.0119 | <0.0233 |
| Naphthalene | 4.0E+02 | 1.7E+01 | — | <0.0202 | <0.0195 | <0.108 | <0.016 | <0.00895 | <0.011 | <0.0925 | <0.0184 | <0.092 | <0.102 | **0.0826** | **0.0708** | **0.169** | <0.0915 | <0.0914 | <0.0193 | <0.00976 | <0.0191 |
| Nitrobenzene | NS | NS | 2.2E+01 | <0.0281 | <0.0271 | <0.15 | <0.0251 | <0.0124 | <0.0152 | <0.128 | <0.0255 | <0.128 | <0.141 | <0.0262 | <0.0157 | <0.0136 | <0.127 | <0.127 | <0.0268 | <0.0135 | <0.0265 |
| n-Nitrosodimethylamine | NS | NS | 3.4E-02 | <0.12 | <0.115 | <0.637 | <0.107 | <0.0529 | <0.0647 | <0.546 | <0.109 | <0.544 | <0.601 | <0.112 | <0.067 | <0.058 | <0.54 | <0.54 | <0.114 | <0.0577 | <0.113 |
| n-Nitrosodi-n-propylamine | NS | NS | 3.5E-01 | <0.0269 | <0.0259 | <0.143 | <0.024 | <0.0119 | <0.0145 | <0.123 | <0.0244 | <0.122 | <0.135 | <0.0251 | <0.0151 | <0.013 | <0.121 | <0.121 | <0.0256 | <0.013 | <0.0254 |
| n-Nitrosodiphenylamine | NS | NS | 4.7E+02 | <0.081 | <0.0588 | <0.325 | <0.0545 | <0.027 | <0.033 | <0.279 | <0.0554 | <0.277 | <0.307 | <0.0569 | <0.0342 | <0.0296 | <0.278 | <0.278 | <0.0582 | <0.0294 | <0.0576 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | — | <0.0217 | <0.0209 | <0.116 | <0.0193 | <0.00859 | <0.0117 | <0.0991 | <0.0197 | <0.0986 | <0.109 | <0.0203 | <0.0122 | <0.0105 | <0.098 | <0.098 | <0.0207 | <0.0105 | <0.0204 |
| Phenanthrene | NS | NS | NS | <0.0116 | <0.0154 | <0.0853 | <0.0143 | <0.00708 | <0.00866 | <0.0731 | **0.113** | <0.0727 | <0.0804 | **0.0594** | **0.0428** | **0.2** | <0.0723 | <0.0723 | <0.0152 | <0.00772 | <0.0151 |
| Phenol | 6.8E+04 | 3.5E+05 | — | <0.0324 | <0.0313 | <0.173 | <0.029 | <0.0143 | <0.0176 | <0.148 | <0.0295 | <0.147 | <0.163 | <0.0303 | <0.0182 | <0.0157 | <0.147 | <0.147 | <0.0309 | <0.0156 | <0.0306 |
| Pyrene | 5.0E+03 | 2.3E+04 | — | <0.0157 | <0.0152 | <0.0836 | **0.112** | <0.00694 | <0.00849 | <0.0717 | **0.6** | <0.0713 | <0.0788 | **0.166** | <0.00879 | **0.368 J** | **0.577** | **0.563** | <0.015 | <0.00757 | <0.0148 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

— = Not used.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RWQCB = Regional Water Quality Control Board.

SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.

R = Data rejected for laboratory quality assurance/quality control reasons.

T6 = Sample received past/too close to holding time expiration.

[1] San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2] United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | BS-01-1 | BS-I1-1 | BS-I1-1 | BS-I1-1 | BS-I1-1 | BS-I2-1 | BS-I2-1 | BS-I2-1 | BS-I2-1 | BS-I3-1 | BS-I3-1 | BS-I3-1 | BS-I3-1 | G/BS-A2-1 | G/BS-A3-1 | G/BS-A3-1 | G/BS-A3-1 | G/BS-A3-1 | G/BS-A3-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 3.0 | 1.0 | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/29/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.6E+02 | 1.1E+02 | <0.0222 | <0.011 | <0.0112 | <0.0123 | <0.15 | <0.117 | <0.0115 | <0.0129 | <0.013 | <0.0238 | <0.024 | <0.0241 | <0.129 | <0.116 | <0.0233 | <0.0138 | <0.0228 | <0.0238 | <0.123 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | <0.0211 | <0.0104 | <0.0105 | <0.0116 | <0.143 | <0.111 | <0.011 | <0.0122 | <0.0124 | <0.0227 | <0.0226 | <0.0226 | <0.123 | <0.11 | <0.0221 | <0.0131 | <0.0216 | <0.0225 | <0.117 |
| 1,3-Dichlorobenzene | NS | NS | <0.0215 | <0.0107 | <0.0108 | <0.0119 | <0.146 | <0.114 | <0.0112 | <0.0125 | <0.0126 | <0.0232 | <0.0233 | <0.0234 | <0.125 | <0.113 | <0.0226 | <0.0134 | <0.0222 | <0.0231 | <0.12 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | <0.0212 | <0.0105 | <0.0106 | <0.0117 | <0.143 | <0.112 | <0.011 | <0.0123 | <0.0124 | <0.0228 | <0.0229 | <0.023 | <0.123 | <0.111 | <0.0222 | <0.0131 | <0.0217 | <0.0227 | <0.117 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | <0.0308 | <0.0153 | <0.0155 | <0.017 | <0.208 | <0.163 | <0.016 | <0.0179 | <0.018 | <0.0331 | <0.0333 | <0.0334 | <0.179 | <0.161 | <0.0323 | <0.0191 | <0.0316 | <0.033 | <0.171 |
| 2,4,6-Tribromophenol | NS | NS | 0.598 | 0.383 | 0.465 | 0.314 | 0.303 | 0.525 | 0.426 | 0.411 | 0.304 | 0.43 | 0.382 | 0.418 | 0.458 | 0.547 | 0.5 | 0.491 | 0.556 | 0.803 | 0.535 |
| 2,4,6-Trichlorophenol | 3.5E+02 | 4.7E+01 | <0.0229 | <0.0113 | <0.0115 | <0.0126 | <0.155 | <0.121 | <0.0119 | <0.0133 | <0.0134 | <0.0246 | <0.0247 | <0.0248 | <0.133 | <0.119 | <0.024 | <0.0142 | <0.0235 | <0.0245 | <0.127 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | <0.0207 | <0.0102 | <0.0104 | <0.0114 | <0.14 | <0.11 | <0.0108 | <0.012 | <0.0121 | <0.0223 | <0.0224 | <0.0225 | <0.12 | <0.108 | <0.0217 | <0.0129 | <0.0213 | <0.0223 | <0.115 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | <0.0186 | <0.00919 | <0.00934 | <0.0103 | <0.126 | <0.0982 | <0.00966 | <0.0108 | <0.0109 | <0.02 | <0.0201 | <0.0202 | <0.108 | <0.097 | <0.0195 | <0.0115 | <0.0191 | <0.0189 | <0.103 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | <0.167 | <0.0823 | <0.0836 | <0.0918 | <1.13 | <0.879 | <0.0865 | <0.0966 | <0.0975 | <0.179 | <0.18 | <0.181 | <0.967 | <0.869 | <0.175 | <0.103 | <0.171 | <0.179 | <0.923 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | <0.0204 | <0.0101 | <0.0103 | <0.0113 | <0.138 | <0.108 | <0.0106 | <0.0118 | <0.012 | <0.022 | <0.0221 | <0.0221 | <0.119 | <0.107 | <0.0214 | <0.0127 | <0.021 | <0.0218 | <0.113 |
| 2,6-Dinitrotoluene | NS | NS | <0.0233 | <0.0115 | <0.0117 | <0.0128 | <0.156 | <0.123 | <0.0121 | <0.0135 | <0.0136 | <0.0251 | <0.0252 | <0.0253 | <0.135 | <0.122 | <0.0244 | <0.0144 | <0.0239 | <0.0249 | <0.129 |
| 2-Chloronaphthalene | NS | NS | <0.0125 | <0.00618 | <0.00628 | <0.00689 | <0.0846 | <0.066 | <0.00649 | <0.00726 | <0.00732 | <0.0135 | <0.0135 | <0.0136 | <0.0727 | <0.0652 | <0.0131 | <0.00776 | <0.0128 | <0.0134 | <0.0693 |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | <0.0235 | <0.0116 | <0.0118 | <0.013 | <0.159 | <0.124 | <0.0122 | <0.0136 | <0.0138 | <0.0253 | <0.0254 | <0.0255 | <0.137 | <0.123 | <0.0247 | <0.0146 | <0.0242 | <0.0252 | <0.13 |
| 2-Fluorobiphenyl | NS | NS | 0.345 | 0.189 | 0.229 | 0.158 | 0.225 | 0.242 | 0.207 | 0.211 | 0.209 | 0.199 | 0.193 | 0.208 | 0.211 | 0.275 | 0.278 | 0.234 | 0.269 | 0.251 | 0.267 |
| 2-Fluorophenol | NS | NS | 0.472 | 0.428 | 0.511 | 0.345 | 0.394 | 0.529 | 0.467 | 0.469 | 0.41 | 0.469 | 0.432 | 0.458 | 0.413 | 0.586 | 0.573 | 0.505 | 0.578 | 0.516 | 0.603 |
| 2-Nitrophenol | NS | NS | <0.0254 | <0.0126 | <0.0128 | <0.014 | <0.172 | <0.134 | <0.0132 | <0.0148 | <0.0148 | <0.0274 | <0.0275 | <0.0276 | <0.148 | <0.133 | <0.0267 | <0.0155 | <0.0261 | <0.0272 | <0.141 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | <0.0263 | <0.013 | <0.0132 | <0.0145 | <0.178 | <0.139 | <0.0137 | <0.0153 | <0.0154 | <0.0283 | <0.0284 | <0.0285 | <0.153 | <0.137 | <0.0276 | <0.0163 | <0.027 | <0.0281 | <0.146 |
| 4,6-Dinitro-2-methylphenol | NS | NS | <0.161 | <0.0797 | <0.081 | <0.089 | <1.09 | <0.852 | <0.0838 | <0.0936 | <0.0945 | <0.174 | <0.174 | <0.175 | <0.936 | <0.842 | <0.169 | <0.1 | <0.166 | <0.173 | <0.895 |
| 4-Bromophenyl-phenylether | NS | NS | <0.025 | <0.0124 | <0.0126 | <0.0138 | <0.189 | <0.132 | <0.013 | <0.0145 | <0.0146 | <0.0269 | <0.027 | <0.0271 | <0.145 | <0.13 | <0.0262 | <0.0155 | <0.0257 | <0.0268 | <0.139 |
| 4-Chloro-3-methylphenol | NS | NS | <0.0231 | <0.0114 | <0.0116 | <0.0127 | <0.156 | <0.122 | <0.012 | <0.0134 | <0.0135 | <0.0248 | <0.025 | <0.025 | <0.134 | <0.12 | <0.0242 | <0.0143 | <0.0237 | <0.0247 | <0.128 |
| 4-Chlorophenyl-phenylether | NS | NS | <0.0248 | <0.0123 | <0.0125 | <0.0137 | <0.168 | <0.131 | <0.0129 | <0.0144 | <0.0145 | <0.0267 | <0.0268 | <0.0269 | <0.144 | <0.129 | <0.026 | <0.0154 | <0.0255 | <0.0265 | <0.138 |
| 4-Nitrophenol | NS | NS | <0.0222 | <0.011 | <0.0112 | <0.0123 | <0.15 | <0.117 | <0.0115 | <0.0129 | <0.013 | <0.0238 | <0.024 | <0.0241 | <0.129 | <0.116 | <0.0233 | <0.0136 | <0.0228 | <0.0238 | <0.123 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | <0.0115 | <0.00569 | <0.00578 | <0.00635 | <0.0779 | <0.0608 | <0.00598 | <0.00668 | <0.00674 | <0.0124 | <0.0125 | <0.0125 | <0.0669 | <0.0601 | <0.0121 | <0.00714 | <0.0118 | <0.0124 | <0.0638 |
| Acenaphthylene | NS | NS | <0.01 | <0.00495 | <0.00503 | <0.00553 | <0.0678 | <0.0529 | <0.00521 | <0.00582 | <0.00587 | <0.0108 | <0.0109 | <0.0109 | <0.0582 | <0.0523 | <0.0105 | <0.00622 | <0.0103 | <0.0107 | <0.0556 |
| Anthracene | 5.0E+04 | 2.3E+05 | <0.0127 | <0.00626 | <0.00636 | <0.00699 | <0.0857 | <0.0669 | <0.00658 | <0.00735 | <0.00742 | <0.0137 | <0.0138 | <0.0138 | <0.0736 | <0.0661 | <0.0133 | <0.00786 | <0.0131 | <0.0136 | <0.0703 |
| Benzidine | NS | NS | <0.134 | <0.0661 | <0.0672 | <0.0738 | <0.905 | <0.707 | <0.0695 | <0.0776 | <0.0783 | <0.144 | <0.145 | <0.145 | <0.777 | <0.698 | <0.14 | <0.083 | <0.137 | <0.143 | <0.743 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | <0.0125 | <0.0062 | <0.0063 | <0.00692 | 0.862 | <0.0663 | <0.00652 | <0.00728 | <0.00735 | <0.0135 | <0.0135 | <0.0136 | <0.0728 | <0.0655 | <0.0131 | <0.00778 | 0.133 | <0.0134 | <0.0696 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | <0.0133 | <0.00654 | <0.00664 | <0.00729 | 0.705 | <0.0699 | <0.00687 | <0.00768 | <0.00775 | <0.0143 | <0.0144 | <0.0144 | <0.0768 | <0.069 | <0.0139 | <0.0082 | 0.154 | <0.0142 | <0.0734 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | <0.0133 | <0.00656 | <0.00667 | <0.00732 | 0.896 | <0.0701 | <0.00688 | <0.0077 | <0.00777 | <0.0143 | <0.0143 | <0.0144 | <0.0771 | <0.0693 | <0.0139 | <0.00823 | 0.203 | <0.0142 | <0.0736 |
| Benzo(g,h,i)perylene | NS | NS | <0.013 | <0.00643 | <0.00654 | <0.00716 | 0.484 | <0.0687 | <0.00676 | <0.00755 | <0.00762 | <0.014 | <0.0141 | <0.0141 | <0.0756 | <0.0679 | <0.0137 | <0.00807 | 0.131 | <0.014 | <0.0722 |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | <0.0126 | <0.00625 | <0.00635 | <0.00696 | <0.0858 | <0.0668 | <0.00657 | <0.00734 | <0.00741 | <0.0136 | <0.0136 | <0.0137 | <0.0735 | <0.066 | <0.0132 | <0.00785 | <0.013 | <0.0135 | <0.0702 |
| Benzylbutyl phthalate | NS | NS | <0.0222 | <0.011 | <0.0112 | <0.0123 | <0.15 | <0.117 | <0.0115 | <0.0129 | <0.013 | <0.0238 | <0.024 | <0.0241 | <0.129 | <0.116 | <0.0233 | <0.0138 | <0.0228 | <0.0238 | <0.123 |
| Bis(2-chloroethoxy)methane | NS | NS | <0.0214 | <0.0106 | <0.0107 | <0.0118 | <0.145 | <0.113 | <0.0111 | <0.0124 | <0.0125 | <0.023 | <0.0231 | <0.0232 | <0.124 | <0.112 | <0.0224 | <0.0133 | <0.022 | <0.0229 | <0.118 |
| Bis(2-chloroethyl)ether | 6.4E+00 | 4.7E-01 | <0.0235 | <0.0116 | <0.0118 | <0.013 | <0.159 | <0.124 | <0.0122 | <0.0136 | <0.0138 | <0.0253 J4 | <0.0254 J4 | <0.0255 J4 | <0.137 | <0.123 | <0.0247 | <0.0146 | <0.0242 | <0.0252 | <0.13 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.6E+02 | <0.0902 | <0.0446 | <0.0453 | <0.0497 | <0.61 | <0.476 | <0.0468 | <0.0523 | <0.0528 | <0.0971 | <0.0979 | <0.0979 | <0.524 | <0.471 | <0.0946 | <0.0559 | <0.0927 | <0.0998 | <0.5 |
| Chrysene | 9.1E+03 | 2.1E+03 | <0.0141 | <0.00699 | <0.00711 | <0.0078 | 0.646 | <0.0747 | <0.00735 | <0.00821 | <0.00828 | <0.0152 | <0.0153 | <0.0153 | <0.0822 | <0.0738 | <0.0148 | <0.00877 | 0.17 | <0.0151 | <0.0785 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | <0.0198 | <0.00975 | <0.00991 | <0.0109 | <0.133 | <0.104 | <0.0102 | <0.0114 | <0.0115 | <0.0215 | <0.0214 | <0.0215 | <0.115 | <0.103 | <0.0207 | <0.0122 | <0.0203 | <0.0212 | <0.109 |
| Diethyl phthalate | 1.5E+05 | 6.6E+05 | <0.0235 | <0.0116 | <0.0118 | <0.013 | <0.159 | <0.124 | <0.0122 | <0.0136 | <0.0138 | <0.0253 | <0.0254 | <0.0255 | <0.137 | <0.123 | <0.0247 | <0.0146 | <0.0242 | <0.0252 | <0.13 |
| Dimethyl phthalate | NS | NS | <0.151 | <0.0746 | <0.0758 | <0.0832 | <1.02 | <0.797 | <0.0784 | <0.0878 | <0.0883 | <0.162 | <0.163 | <0.163 | <0.877 | <0.787 | <0.158 | <0.0936 | <0.155 | <0.161 | <0.837 |
| Di-n-butyl phthalate | NS | NS | <0.0244 | <0.012 | <0.0122 | <0.0134 | <0.165 | <0.129 | <0.0127 | <0.0141 | <0.0143 | <0.0262 | <0.0263 | <0.0264 | <0.142 | <0.127 | <0.0255 | <0.0151 | <0.025 | <0.0261 | <0.135 |
| Di-n-octyl phthalate | NS | NS | <0.0481 | <0.0238 | <0.0241 | <0.0265 | <0.325 | <0.254 | <0.025 | <0.0279 | <0.0282 | <0.0518 | <0.052 | <0.0522 | <0.279 | <0.251 | <0.0504 | <0.0298 | <0.0484 | <0.0515 | <0.267 |
| Fluoranthene | 9.7E+03 | 3.0E+04 | <0.0128 | <0.00635 | <0.00645 | <0.00708 | 0.821 | <0.0678 | <0.00667 | <0.00745 | <0.00752 | <0.0138 | <0.0139 | <0.0139 | <0.0746 | <0.067 | <0.0134 | <0.00797 | 0.286 | <0.0137 | <0.0712 |
| Fluorene | 6.7E+03 | 3.0E+04 | <0.0115 | <0.00572 | <0.00582 | <0.00639 | <0.0783 | <0.0612 | <0.00602 | <0.00672 | <0.00678 | <0.0124 | <0.0125 | <0.0125 | <0.0673 | <0.0605 | <0.0121 | <0.00719 | <0.0119 | <0.0124 | <0.0642 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | <0.0239 | <0.0118 | <0.012 | <0.0132 | <0.162 | <0.126 | <0.0124 | <0.0139 | <0.014 | <0.0256 | <0.0258 | <0.026 | <0.139 | <0.125 | <0.0251 | <0.0148 | <0.0246 | <0.0256 | <0.133 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | <0.0253 | <0.0125 | <0.0127 | <0.0139 | <0.171 | <0.133 | <0.0131 | <0.0146 | <0.0148 | <0.0271 | <0.0273 | <0.0274 | <0.147 | <0.132 | <0.0264 | <0.0156 | <0.0259 | <0.027 | <0.14 |
| Hexachlorocyclopentadiene | NS | NS | <0.0374 | <0.0185 | <0.0188 | <0.0206 | <0.253 | <0.198 | <0.0194 | <0.0217 | <0.0219 | <0.0403 | <0.0404 | <0.0406 | <0.217 | <0.195 | <0.0392 | <0.0232 | <0.0384 | <0.04 | <0.207 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | <0.028 | <0.0138 | <0.0141 | <0.0154 | <0.189 | <0.148 | <0.0145 | <0.0162 | <0.0164 | <0.0301 | <0.0303 | <0.0304 | <0.163 | <0.146 | <0.0294 | <0.0174 | <0.0288 | <0.03 | <0.155 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | <0.0201 | <0.00994 | <0.0101 | <0.0111 | <0.136 | <0.106 | <0.0104 | <0.0117 | <0.0118 | <0.0216 | <0.0217 | <0.0218 | <0.117 | <0.105 | <0.0211 | <0.0125 | 0.108 | <0.0215 | <0.112 |
| Isophorone | NS | NS | <0.0218 | <0.0108 | <0.0109 | <0.012 | <0.147 | <0.115 | <0.0113 | <0.0127 | <0.0129 | <0.0235 | <0.0236 | <0.0237 | <0.127 | <0.114 | <0.0229 | <0.0135 | <0.0224 | <0.0233 | <0.121 |
| Naphthalene | 4.0E+02 | 1.7E+01 | <0.0179 | <0.00883 | <0.00897 | <0.00985 | <0.121 | <0.0944 | <0.00928 | <0.0104 | <0.0105 | <0.0192 | <0.0193 | <0.0194 | <0.104 | <0.0932 | <0.0187 | <0.0111 | 0.0881 | <0.0191 | <0.0991 |
| Nitrobenzene | NS | NS | <0.0248 | <0.0123 | <0.0125 | <0.0137 | <0.168 | <0.131 | <0.0129 | <0.0144 | <0.0145 | <0.0267 | <0.0268 | <0.0269 | <0.144 | <0.129 | <0.026 | <0.0154 | <0.0255 | <0.0265 | <0.138 |
| n-Nitrosodimethylamine | NS | NS | <0.106 | <0.0522 | <0.053 | <0.0582 | <0.714 | <0.558 | <0.0548 | <0.0613 | <0.0618 | <0.114 | <0.114 | <0.115 | <0.614 | <0.551 | <0.111 | <0.0655 | <0.109 | <0.113 | <0.586 |
| n-Nitrosodi-n-propylamine | NS | NS | <0.0237 | <0.0117 | <0.0119 | <0.0131 | <0.16 | <0.125 | <0.0123 | <0.0138 | <0.0139 | <0.0255 | <0.0257 | <0.0257 | <0.138 | <0.124 | <0.0249 | <0.0147 | <0.0244 | <0.0254 | <0.132 |
| n-Nitrosodiphenylamine | NS | NS | <0.0539 | <0.0266 | <0.027 | <0.0297 | <0.364 | <0.284 | <0.028 | <0.0313 | <0.0315 | <0.058 | <0.0582 | <0.0584 | <0.313 | <0.281 | <0.0565 | <0.0334 | <0.0554 | <0.0577 | <0.299 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | <0.0191 | <0.00946 | <0.00962 | <0.0106 | <0.13 | <0.101 | <0.00995 | <0.0111 | <0.0112 | <0.0206 | <0.0207 | <0.0208 | <0.111 | <0.0998 | <0.0201 | <0.0119 | <0.0197 | <0.0205 | <0.106 |
| Phenanthrene | NS | NS | <0.0141 | <0.00698 | <0.00709 | <0.00778 | 0.817 | <0.0749 | <0.00734 | <0.00822 | <0.00827 | <0.0152 | <0.0153 | <0.0153 | <0.0821 | <0.0737 | <0.0148 | <0.00876 | 0.29 | <0.0151 | <0.0784 |
| Phenol | 6.5E+04 | 3.5E+05 | <0.0266 | <0.0132 | <0.0144 | <0.0158 | <0.194 | <0.151 | <0.0148 | <0.0166 | <0.0168 | <0.0306 | <0.0311 | <0.0311 | <0.166 | <0.149 | <0.03 | <0.0178 | <0.0294 | <0.0307 | <0.159 |
| Pyrene | 5.0E+03 | 2.3E+04 | <0.0139 | <0.00684 | <0.00696 | <0.00764 | 1.12 | <0.0732 | <0.00719 | <0.00804 | <0.00811 | <0.015 | <0.015 | <0.0151 | <0.0805 | <0.0723 | <0.0146 | <0.00859 | 0.297 | <0.0149 | <0.0768 |

Notes:
Yellow shaded concentrations exceed the Construction Worker ESLs.
Boxed concentrations exceed the Commercial/Industrial ESLs.
-- = Not used.
< = Not detected at or above method detection limit.
Bold = Detected concentration.
ESL = Environmental Screening Level.
ft bgs = Feet below ground surface.
mg/kg = Milligrams per kilogram.
NS = No standard established.
RWQCB = Regional Water Quality Control Board.
SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.
J = The identification of the analyte is acceptable; the report value is an estimate.
J3 = The associated batch quality control was outside the established quality control for precision.
J4 = The associated batch quality control was outside the established quality control for accuracy.
J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.
R = Data rejected for laboratory quality assurance/quality control reasons.
T8 = Sample received past/too close to holding time expiration.
[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1); Shallow Soil Exposure, January 2019.
[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels, May 2024.

**Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2018 RWQCB | 2018 RWQCB | G/BS-D4-1 | G/BS-D4-1 | G/BS-D4-1 | G/BS-F4-1 | G/BS-F4-1 | G/BS-F4-1 | G/BS-H1-1 | G/BS-H1-1 | G/BS-H1-1 | G/BS-H1-1 | G/UC-B1-1 | G/UC-B1-1 | G/UC-B1-1 | G/UC-B1-1 | G/UC-B4-1 | G/UC-B4-1 | G/UC-B4-1 | G/UC-C1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 | 3.0 | 5.0 | 10.0 | 1.0 | 2.0 | 3.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 | 5/29/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/21/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | <0.11 | <0.0116 | <0.0116 | <0.0227 | <0.0246 | <0.0129 | <0.0128 | <0.112 | <0.276 | <0.0136 | <0.012 | <0.0126 R | <0.0114 TBR | <0.0143 | <0.0127 | <0.0127 | <0.0115 | <0.0111 | <0.111 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | <0.105 | <0.011 | <0.011 | <0.0215 | <0.0233 | <0.0122 | <0.0121 | <0.106 | <0.261 | <0.013 | <0.0114 | <0.012 | <0.0108 TB | <0.0135 | <0.012 | <0.012 | <0.0109 | <0.0105 | <0.105 |
| 1,3-Dichlorobenzene | NS | NS | <0.107 | <0.0112 | <0.0113 | <0.022 | <0.0239 | <0.0125 | <0.0124 | <0.108 | <0.268 | <0.0133 | <0.0116 | <0.0122 | <0.0111 TB | <0.0138 | <0.0123 | <0.0123 | <0.0112 | <0.0108 | <0.108 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | <0.105 | <0.011 | <0.011 | <0.0216 | <0.0234 | <0.0123 | <0.0122 | <0.106 | <0.263 | <0.013 | <0.0114 | <0.012 | <0.0109 TB | <0.0136 | <0.0121 | <0.0121 | <0.011 | <0.0106 | <0.106 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | <0.153 | <0.016 | <0.016 | <0.0161 | <0.0314 | <0.0341 | <0.0179 | <0.0177 | <0.155 | <0.382 | <0.0189 | <0.0186 | <0.0175 | <0.0158 TB | <0.0197 | <0.0175 | <0.0159 | <0.0154 | <0.153 |
| 2,4,6-Tribromophenol | NS | NS | **0.453** | **0.163** | **0.358** | **0.465** | **0.314** | **0.323** | **0.431** | **0.383** | **0.419 J7** | **0.313** | **0.272** | **0.277** | **0.323** | **0.302** | **0.267** | **0.302** | **0.429** | **0.388** | **0.312** |
| 2,4,6-Trichlorophenol | 3.5E+02 | 4.7E+01 | <0.112 | <0.0116 | <0.0116 | <0.0233 | <0.0253 | <0.0133 | <0.0131 | <0.115 | <0.284 | <0.014 | <0.0123 | <0.013 | <0.0117 TB | <0.0147 | <0.013 | <0.013 | <0.0118 | <0.0114 | <0.114 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | <0.103 | <0.0106 | <0.0106 | <0.0212 | <0.0229 | <0.012 | <0.0119 | <0.104 | <0.257 | <0.0127 | <0.0112 | <0.0118 | <0.0106 TB | <0.0133 | <0.0118 | <0.0118 | <0.0107 | <0.0104 | <0.103 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | <0.0622 | <0.00969 | <0.0097 | <0.019 | <0.0206 | <0.0108 | <0.0107 | <0.0934 | <0.231 | <0.0114 | <0.01 | <0.0106 | <0.00954 TB | <0.0119 | <0.0106 | <0.0106 | <0.00963 | <0.00926 | <0.0926 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | <0.625 | <0.0867 | <0.0868 | <0.17 | <0.185 | <0.0968 | <0.0955 | <0.837 | <2.07 | <0.102 | <0.0898 J3 | <0.0945 | <0.0854 TB | <0.107 | <0.0949 | <0.0948 | <0.0862 | <0.0832 | <0.829 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | <0.101 | <0.0106 | <0.0106 | <0.0205 | <0.0226 | <0.0116 | <0.0117 | <0.103 | <0.253 | <0.0125 | <0.011 | <0.0116 | <0.0105 TB | <0.0131 | <0.0116 | <0.0116 | <0.0106 | <0.0102 | <0.102 |
| 2,6-Dinitrotoluene | NS | NS | <0.115 | <0.0121 | <0.0121 | <0.0236 | <0.0258 | <0.0135 | <0.0134 | <0.117 | <0.288 | <0.0143 | <0.0126 | <0.0132 | <0.012 TB | <0.0149 | <0.0133 | <0.0133 | <0.0121 | <0.0116 | <0.116 |
| 2-Chloronaphthalene | NS | NS | <0.062 | <0.00651 | <0.00652 | <0.0128 | <0.0138 | <0.0136 | <0.00728 | <0.00717 | <0.0828 | <0.155 | <0.00788 | <0.00674 | <0.00709 | <0.00641 TB | <0.00802 | <0.00712 | <0.00713 | <0.00647 | <0.00625 | <0.0623 |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | <0.117 | <0.0122 | <0.0123 | <0.024 | <0.026 | <0.0135 | <0.0135 | <0.118 | <0.292 | <0.0144 | <0.0127 | <0.0133 | <0.0121 TB | <0.0151 | <0.0134 | <0.0134 | <0.0122 | <0.0117 | <0.117 |
| 2-Fluorobiphenyl | NS | NS | **0.243** | **0.137** | **0.178** | **0.222** | **0.204** | **0.182** | **0.213** | **0.297** | **0.229 J7** | **0.205** | **0.182** | **0.15** | **0.164** | **0.169** | **0.161** | **0.135** | **0.208** | **0.176** | **0.303** |
| 2-Fluorophenol | NS | NS | **0.498** | **0.242** | **0.38** | **0.47** | **0.357** | **0.378** | **0.478** | **0.448** | **0.351 J7** | **0.393** | **0.352** | **0.333** | **0.373** | **0.344** | **0.365** | **0.244** | **0.464** | **0.392** | **0.6** |
| 2-Nitrophenol | NS | NS | <0.126 | <0.0133 | <0.0133 | <0.026 | <0.0282 | <0.0148 | <0.0146 | <0.128 | <0.316 | <0.0156 | <0.0137 | <0.0144 | <0.013 TB | <0.0163 | <0.0145 | <0.0145 | <0.0132 | <0.0127 | <0.127 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | <0.13 | <0.0137 | <0.0137 | <0.0268 | <0.0291 | <0.0153 | <0.0151 | <0.132 | <0.326 | <0.0161 | <0.0142 | <0.0149 | <0.0135 TB | <0.0169 | <0.015 | <0.015 | <0.0136 | <0.0131 | <0.131 |
| 4,6-Dinitro-2-methylphenol | NS | NS | <0.8 | <0.0841 | <0.0842 | <0.166 | <0.179 | <0.0937 | <0.0926 | <0.811 | <2 | <0.0991 | <0.087 | <0.0916 | <0.0828 TB | <0.104 | <0.092 | <0.092 | <0.0836 | <0.0806 | <0.804 |
| 4-Bromophenyl-phenylether | NS | NS | <0.124 | <0.013 | <0.013 | <0.0255 | <0.0277 | <0.0145 | <0.0143 | <0.126 | <0.31 | <0.0154 | <0.0135 | <0.0142 | <0.0128 TB | <0.016 | <0.0142 | <0.0143 | <0.0129 | <0.0125 | <0.125 |
| 4-Chloro-3-methylphenol | NS | NS | <0.114 | <0.012 | <0.012 | <0.0236 | <0.0256 | <0.0134 | <0.0132 | <0.116 | <0.287 | <0.0142 | <0.0124 J3 | <0.0131 | <0.0118 TB | <0.0146 | <0.0132 | <0.0132 | <0.012 | <0.0115 | <0.115 |
| 4-Chlorophenyl-phenylether | NS | NS | <0.123 | <0.0128 | <0.0129 | <0.0253 | <0.0274 | <0.0144 | <0.0142 | <0.125 | <0.308 | <0.0152 | <0.0134 | <0.0141 | <0.0127 TB | <0.0158 | <0.0141 | <0.0141 | <0.0128 | <0.0124 | <0.123 |
| 4-Nitrophenol | NS | NS | <0.11 | <0.0116 | <0.0116 | <0.0227 | <0.0246 | <0.0129 | <0.0128 | <0.112 | <0.276 | <0.0136 | <0.012 | <0.0126 | <0.0114 TB | <0.0143 | <0.0127 | <0.0127 | <0.0115 | <0.0111 | <0.111 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | <0.0571 | <0.006 | <0.00601 | <0.0116 | <0.0128 | <0.00669 | <0.00661 | <0.0579 | <0.143 | <0.00707 | <0.00621 | <0.00654 | <0.00591 TB | <0.00736 | <0.00656 | <0.00657 | <0.00597 | <0.00575 | <0.0574 |
| Acenaphthylene | NS | NS | <0.0497 | <0.00522 | <0.00523 | <0.0102 | <0.0111 | <0.00582 | <0.00575 | <0.0504 | <0.124 | <0.00615 | <0.00541 | <0.00569 | <0.00514 TB | <0.00643 | <0.00571 | <0.00571 | <0.00519 | <0.00501 | <0.0499 |
| Anthracene | 5.0E+04 | 2.3E+05 | **0.416** | <0.0066 | **0.0586** | <0.013 | **0.197** | <0.00736 | <0.00727 | <0.0637 | <0.158 | <0.00778 | <0.00683 | <0.00719 | <0.0065 TB | <0.00813 | <0.00722 | **0.138** | <0.00656 | <0.00633 | <0.0631 |
| Benzidine | NS | NS | <0.663 | <0.0697 | <0.0698 | <0.138 | <0.148 | <0.0777 J5 | <0.0768 | <0.672 | <1.66 | <0.0821 | <0.0722 J8 | <0.0759 | <0.0698 TB | <0.0858 | <0.0762 | <0.0763 | <0.0693 | <0.0668 | <0.666 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | **1.26 J** | **0.0938 J** | **0.378 J** | <0.0128 | **0.854** | <0.00728 | <0.0072 | <0.063 | **3.37** | <0.0077 | <0.00677 | <0.0071 2 | <0.00644 TB | <0.00805 | <0.00715 | **0.112 J** | <0.0065 | <0.00627 | <0.0625 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | **1.1 J** | **0.112 J** | **0.446 J** | <0.0135 | **0.672** | <0.00768 | <0.00759 | <0.0665 | **2.84** | <0.00812 | <0.00713 | <0.00751 | <0.00679 TB | <0.00849 | <0.00754 | **0.145 J** | <0.00685 | <0.00661 | <0.0659 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | **1.68 J** | **0.158 J** | **0.737 J** | **0.0988** | **0.926** | <0.0077 | <0.00762 | <0.0667 | **1.37** | <0.00815 | <0.00716 | <0.00753 | <0.00681 TB | <0.00852 | <0.00756 | **0.215 J** | <0.00687 | <0.00663 | <0.0661 |
| Benzo(g,h,i)perylene | NS | NS | **0.56 J** | **0.0549 J** | **0.2 J** | <0.0133 | **0.44** | <0.00755 | <0.00747 | <0.0654 | <0.162 | <0.00799 | <0.00702 | <0.00739 | <0.00669 TB | <0.00835 | <0.00742 | **0.109 J** | <0.00674 | <0.00651 | <0.0648 |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | **0.61** | **0.0578** | **0.215** | <0.0129 | **0.364** | <0.00734 | <0.00726 | <0.0636 | <0.157 | <0.00777 | <0.00682 | <0.00718 | <0.00649 TB | <0.00812 | <0.00721 | **0.0646** | <0.00655 | <0.00632 | <0.063 |
| Benzylbutyl phthalate | NS | NS | <0.11 | <0.0116 | <0.0116 | <0.0227 | <0.0246 | <0.0129 | <0.0128 | <0.112 | <0.276 | <0.0136 | <0.012 | <0.0126 | <0.0114 TB | <0.0143 | <0.0127 | <0.0127 | <0.0115 | <0.0111 | <0.111 |
| Bis(2-chloroethoxy)methane | NS | NS | <0.106 | <0.0111 | <0.0111 | <0.0218 | <0.0237 | <0.0124 | <0.0123 | <0.107 | <0.265 | <0.0131 | <0.0115 | <0.0121 | <0.011 TB | <0.0137 | <0.0122 | <0.0122 | <0.0111 | <0.0107 | <0.106 |
| Bis(2-chloroethyl)ether | 6.4E+00 | 4.7E-01 | <0.117 | <0.0122 | <0.0123 | <0.024 | <0.026 | <0.0135 | <0.0135 | <0.118 | <0.292 | <0.0144 | <0.0127 | <0.0133 | <0.0121 TB | <0.0151 | <0.0134 | <0.0134 | <0.0122 | <0.0117 | <0.117 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.6E+02 | <0.447 | <0.047 | <0.047 | <0.0921 | <0.0998 | <0.0523 | <0.0518 | <0.453 | <1.12 | <0.0554 | <0.0486 | <0.0512 | <0.0463 TB | <0.0579 | <0.0514 | <0.0514 | <0.0467 | <0.0451 | <0.449 |
| Chrysene | 9.1E+03 | 2.1E+03 | **1.19 J** | **0.137 J** | **0.456 J** | <0.0144 | **0.731** | <0.00821 | <0.00812 | <0.0711 | **3.54** | <0.00869 | <0.00763 | <0.00803 | <0.00726 TB | <0.00908 | <0.00808 | **0.113 J** | <0.00733 | <0.00707 | <0.0705 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | <0.0975 | <0.0103 | **0.0753** | <0.0202 | **0.116** | <0.0114 | <0.0113 | <0.0991 | <0.245 | <0.0121 | <0.0106 | <0.0112 | <0.0101 TB | <0.0127 | <0.0112 | <0.0112 | <0.0102 | <0.00985 | <0.0983 |
| Diethyl phthalate | 1.5E+05 | 6.6E+05 | <0.117 | <0.0122 | <0.0123 | <0.024 | <0.026 | <0.0136 | <0.0135 | <0.118 | <0.292 | <0.0144 | <0.0127 | <0.0133 | <0.0121 TB | <0.0151 | <0.0134 | <0.0134 | <0.0122 | <0.0117 | <0.117 |
| Dimethyl phthalate | NS | NS | <0.748 | <0.0786 | <0.0787 | <0.154 | <0.167 | <0.0878 | <0.0868 | <0.758 | <1.87 | <0.0926 | <0.0814 | <0.0858 | <0.0774 TB | <0.0968 | <0.086 | <0.086 | <0.0781 | <0.0754 | <0.752 |
| Di-n-butyl phthalate | NS | NS | <0.121 | <0.0127 | <0.0127 | <0.0249 | <0.027 | <0.0141 | <0.014 | <0.122 | <0.302 | <0.015 | <0.0131 | <0.0138 | <0.0125 TB | <0.0156 | <0.0139 | <0.0139 | <0.0126 | <0.0122 | <0.121 |
| Di-n-octyl phthalate | NS | NS | <0.238 | <0.0251 | <0.0251 | <0.0491 | <0.0532 | <0.0279 | <0.0276 | <0.242 | <0.597 | <0.0295 | <0.0259 | <0.0273 | <0.0247 TB | <0.0309 | <0.0274 | <0.0274 | <0.0249 | <0.024 | <0.24 |
| Fluoranthene | 9.7E+03 | 3.0E+04 | **2.88** | **0.0935** | **0.492** | **0.0909** | **1.68** | <0.00745 | <0.00737 | <0.0645 | <0.159 | <0.00789 | <0.00693 | <0.00729 | <0.00659 TB | <0.00824 | <0.00732 | **0.177** | <0.00665 | <0.00642 | <0.064 |
| Fluorene | 8.7E+03 | 3.0E+04 | <0.0574 | <0.00604 | <0.00604 | <0.0118 | <0.0128 | <0.00672 | <0.00665 | <0.0592 | **0.695** | <0.00711 | <0.00625 | <0.00657 | <0.00594 TB | <0.00743 | <0.0066 | **0.0797** | <0.006 | <0.00579 | <0.0577 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | <0.119 | <0.0125 | <0.0125 | <0.0244 | <0.0265 | <0.0139 | <0.0137 | <0.12 | <0.297 | <0.0147 | <0.0129 | <0.0136 | <0.0123 TB | <0.0154 | <0.0136 | <0.0136 | <0.0124 | <0.012 | <0.119 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | <0.125 | <0.0131 | <0.0132 | <0.0257 | <0.0279 | <0.0146 | <0.0145 | <0.127 | <0.313 | <0.0155 | <0.0136 | <0.0143 | <0.0129 TB | <0.0162 | <0.0144 | <0.0144 | <0.0131 | <0.0126 | <0.126 |
| Hexachlorocyclopentadiene | NS | NS | <0.185 | <0.0195 | <0.0195 | <0.0382 | <0.0414 | <0.0217 | <0.0215 | <0.188 | <0.464 | <0.023 | <0.0202 J6 | <0.0212 | <0.0192 TB | <0.024 | <0.0213 | <0.0213 | <0.0194 | <0.0187 | <0.186 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | <0.139 | <0.0146 | <0.0146 | <0.0286 | <0.031 | <0.0162 | <0.0161 | <0.141 | <0.348 | <0.0172 | <0.0151 | <0.0159 | <0.0144 TB | <0.018 | <0.016 | <0.016 | <0.0145 | <0.014 | <0.139 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | **0.638 J** | **0.0639 J** | **0.285 J** | <0.0205 | **0.481** | <0.0117 | <0.0115 | <0.101 | <0.248 | <0.0123 | <0.0108 | <0.0114 | <0.0103 TB | <0.0129 | <0.0115 | **0.112** | <0.0104 | <0.01 | <0.1 |
| Isophorone | NS | NS | <0.108 | <0.0114 | <0.0114 | <0.0233 | <0.0241 | <0.0127 | <0.0125 | <0.11 | <0.271 | <0.0134 | <0.0118 | <0.0124 | <0.0112 TB | <0.014 | <0.0124 | <0.0124 | <0.0113 | <0.0108 | <0.109 |
| Naphthalene | 4.0E+02 | 1.7E+01 | <0.0656 | <0.00931 | **0.0907** | <0.0182 | <0.0198 | <0.0104 | <0.0103 | <0.0898 | **5.57** | <0.011 | <0.00964 | <0.0101 | <0.00917 TB | <0.0115 | <0.0102 | **0.282** | <0.00925 | <0.00883 | <0.089 |
| Nitrobenzene | NS | NS | <0.123 | <0.0128 | <0.0129 | <0.0253 | <0.0274 | <0.0144 | <0.0142 | <0.125 | <0.308 | <0.0152 | <0.0134 | <0.0141 | <0.0127 TB | <0.0159 | <0.0141 | <0.0141 | <0.0128 | <0.0124 | <0.123 |
| n-Nitrosodimethylamine | NS | NS | <0.523 | <0.055 | <0.0551 | <0.108 | <0.117 | <0.0613 | <0.0606 | <0.531 | <1.31 | <0.0648 | <0.0569 | <0.0599 | <0.0542 TB | <0.0677 | <0.0602 | <0.0602 | <0.0547 | <0.0527 | <0.526 |
| n-Nitroso-di-n-propylamine | NS | NS | <0.116 | <0.0124 | <0.0124 | <0.0242 | <0.0263 | <0.0138 | <0.0136 | <0.119 | <0.295 | <0.0146 | <0.0128 | <0.0135 | <0.0122 TB | <0.0152 | <0.0135 | <0.0135 | <0.0123 | <0.0118 | <0.118 |
| n-Nitrosodiphenylamine | NS | NS | <0.287 | <0.0281 | <0.0281 | <0.056 | <0.0598 | <0.0313 | <0.0309 | <0.271 | <0.669 | <0.0331 | <0.029 | <0.0306 | <0.0278 TB | <0.0348 | <0.0307 | <0.0307 | <0.0279 | <0.0269 | <0.286 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | <0.0948 | <0.00998 | <0.00999 | <0.0195 | <0.0212 | <0.0111 | <0.011 | <0.0962 | <0.237 | <0.0118 | <0.0103 | <0.0109 | <0.00982 TB | <0.0123 | <0.0109 | <0.0109 | <0.00992 | <0.00957 | <0.0954 |
| Phenanthrene | NS | NS | **1.73** | <0.00736 | **0.327** | <0.0144 | **0.673** | <0.0082 | <0.00811 | <0.071 | **2.35** | <0.00867 | <0.00762 | <0.00802 | <0.00725 TB | <0.00906 | <0.00805 | **0.174** | <0.00732 | <0.00706 | <0.0704 |
| Phenol | 6.8E+04 | 3.5E+05 | <0.142 | <0.0149 | **0.448** | <0.0292 | <0.0317 | <0.0166 | <0.0154 | <0.144 | <0.356 | <0.0176 | <0.0154 J3,J6 | <0.0153 | <0.0147 TB | <0.0184 | <0.0163 | <0.0163 | <0.0148 | <0.0143 | <0.143 |
| Pyrene | 5.0E+03 | 2.3E+04 | **1.98 J** | **0.11 J** | **0.471 J** | **0.0781** | **1.31** | <0.00804 | <0.00795 | <0.0696 | **3.19** | <0.0085 | <0.00747 | <0.00786 | <0.0071 TB | <0.00889 | <0.00789 | **0.164 J** | <0.00717 | <0.00692 | <0.069 |

Notes:

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

--- = Not used.

< = Not detected at or above method detection limit.

Bold = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RWQCB = Regional Water Quality Control Board.

SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.

R = Data rejected for laboratory quality assurance/quality control reasons.

TB = Sample received past/too close to holding time expiration.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure, January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels, May 2024.

**Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2018 RWQCB | 2018 RWQCB | G/UC-C1-1 | G/UC-C1-1 | G/UC-C4-1 | G/UC-C4-1 | G/UC-D4-1 | G/UC-H4-1 | G/UC-H4-1 | G/UC-H4-1 | G/UC-H4-1 | G/UC-I1-1 | G/UC-I1-1 | G/UC-I1-1 | G/UC-I1-1 | G/UC-I1-1 | G/UC-I2-1 | G/UC-I2-1 | G/UC-I2-1 | G/UC-I2-1 | G/UC-I2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/21/2024 | 5/21/2024 | 5/22/2024 | 5/22/2024 | 5/23/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.6E+02 | 1.1E+02 | <0.113 | <0.116 | <0.0119 | <0.012 | <0.123 | <0.0111 | <0.0236 | <0.0235 | <0.026 | <0.0132 | <0.0123 | <0.0276 | <0.0138 | <0.0125 | <0.118 | <0.0116 | <0.0137 | <0.0137 | <0.135 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+00 | <0.107 | <0.11 | <0.0113 | <0.0114 | <0.117 | <0.0105 | <0.0225 | <0.0223 | <0.0246 | <0.0125 | <0.0116 | <0.0262 | <0.0131 | <0.0119 | <0.112 | <0.011 | <0.013 | <0.013 | <0.128 |
| 1,3-Dichlorobenzene | NS | NS | <0.109 | <0.112 | <0.0116 | <0.0117 | <0.12 | <0.0108 | <0.0231 | <0.0229 | <0.0253 | <0.0128 | <0.0119 | <0.0268 | <0.0134 | <0.0122 | <0.115 | <0.0112 | <0.0133 | <0.0133 | <0.131 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | <0.107 | <0.11 | <0.0114 | <0.0115 | <0.117 | <0.0106 | <0.0228 | <0.0224 | <0.0248 | <0.0126 | <0.0117 | <0.0263 | <0.0132 | <0.0119 | <0.113 | <0.011 | <0.0131 | <0.013 | <0.128 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | <0.156 | <0.16 | <0.0166 | <0.0167 | <0.171 | <0.0154 | <0.0329 | <0.0326 | <0.036 | <0.0183 | <0.0169 | <0.0382 | <0.0191 | <0.0173 | <0.164 | <0.016 | <0.019 | <0.019 | <0.187 |
| 2,4,6-Tribromophenol | NS | NS | **0.488** | **0.422** | **0.354** | **0.311** | **0.402** | **0.382** | **0.478** | **0.34** | **0.336** | **0.41** | **0.568** | **0.48** | **0.303** | **0.321** | **0.75** | **0.41** | **0.406** | **0.35** | **0.439** |
| 2,4,6-Trichlorophenol | 3.5E+02 | 4.7E+01 | <0.116 | <0.119 | <0.0123 | <0.0124 | <0.127 | <0.0114 | <0.0244 | <0.0242 | <0.0268 | <0.0136 | <0.0126 | <0.0284 | <0.0142 | <0.0129 | <0.122 | <0.0116 | <0.0141 | <0.0141 | <0.139 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | <0.105 | <0.108 | <0.0111 | <0.0112 | <0.115 | <0.0103 | <0.0222 | <0.022 | <0.0243 | <0.0123 | <0.0114 | <0.0258 | <0.0129 | <0.0117 | <0.11 | <0.0108 | <0.0128 | <0.0128 | <0.126 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | <0.0942 | <0.0967 | <0.00997 | <0.0101 | <0.103 | <0.00928 | <0.0199 | <0.0197 | <0.0218 | <0.011 | <0.0102 | <0.0231 | <0.0116 | <0.0105 | <0.099 | <0.00967 | <0.0115 | <0.0115 | <0.113 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | <0.843 | <0.866 | <0.0893 | <0.0901 | <0.923 | <0.0831 | <0.178 | <0.177 | <0.195 | <0.0987 | <0.0916 | <0.207 | <0.104 | <0.0938 | <0.887 | <0.0866 | <0.103 | <0.103 | <1.01 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | <0.103 | <0.106 | <0.0109 | <0.0111 | <0.113 | <0.0102 | <0.0218 | <0.0216 | <0.0238 | <0.0121 | <0.0112 | <0.0254 | <0.0127 | <0.0115 | <0.109 | <0.0106 | <0.0126 | <0.0126 | <0.124 |
| 2,6-Dinitrotoluene | NS | NS | <0.116 | <0.121 | <0.0125 | <0.0126 | <0.129 | <0.0116 | <0.0249 | <0.0247 | <0.0273 | <0.0138 | <0.0128 | <0.0289 | <0.0145 | <0.0131 | <0.124 | <0.0121 | <0.0144 | <0.0144 | <0.141 |
| 2-Chloronaphthalene | NS | NS | <0.0833 | <0.0855 | <0.0067 | <0.00677 | <0.0693 | <0.00624 | <0.0134 | <0.0132 | <0.0148 | <0.00741 | <0.00688 | <0.0155 | <0.00778 | <0.00704 | <0.0666 | <0.0065 | <0.00772 | <0.0077 | <0.0758 |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | <0.116 | <0.122 | <0.0126 | <0.0127 | <0.13 | <0.0117 | <0.0251 | <0.0249 | <0.0275 | <0.0139 | <0.0129 | <0.0292 | <0.0146 | <0.0132 | <0.125 | <0.0122 | <0.0145 | <0.0145 | <0.143 |
| 2-Fluorobiphenyl | NS | NS | **0.263** | **0.242** | **0.21** | **0.19** | **0.209** | **0.19** | **0.281** | **0.187** | **0.188** | **0.202** | **0.22** | **0.237** | **0.188** | **0.211** | **0.405 J1** | **0.2** | **0.215** | **0.168** | **0.191** |
| 2-Fluorophenol | NS | NS | **0.569** | **0.563** | **0.498** | **0.325** | **0.47** | **0.427** | **0.497** | **0.395** | **0.362** | **0.455** | **0.457** | **0.52** | **0.361** | **0.397** | **0.853 J1** | **0.464** | **0.466** | **0.313** | **0.398** |
| 2-Nitrophenol | NS | NS | <0.129 | <0.132 | <0.0136 | <0.0138 | <0.141 | <0.0127 | <0.0272 | <0.0269 | <0.0298 | <0.0151 | <0.014 | <0.0316 | <0.0158 | <0.0143 | <0.135 | <0.0132 | <0.0157 | <0.0157 | <0.154 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | <0.133 | <0.137 | <0.0141 | <0.0142 | <0.146 | <0.0131 | <0.0281 | <0.0278 | <0.0308 | <0.0156 | <0.0145 | <0.0327 | <0.0163 | <0.0148 | <0.14 | <0.0137 | <0.0163 | <0.0162 | <0.159 |
| 4,6-Dinitro-2-methylphenol | NS | NS | <0.817 | <0.839 | <0.0865 | <0.0874 | <0.894 | <0.0805 | <0.172 | <0.171 | <0.189 | <0.0957 | <0.0888 | <0.2 | <0.1 | <0.0909 | <0.86 | <0.0839 | <0.0997 | <0.0994 | <0.979 |
| 4-Bromophenyl-phenylether | NS | NS | <0.127 | <0.13 | <0.0134 | <0.0135 | <0.139 | <0.0125 | <0.0267 | <0.0265 | <0.0293 | <0.0148 | <0.0138 | <0.0311 | <0.0156 | <0.0141 | <0.133 | <0.013 | <0.0154 | <0.0154 | <0.152 |
| 4-Chloro-3-methylphenol | NS | NS | <0.117 | <0.12 | <0.0124 | <0.0125 | <0.128 | <0.0115 | <0.0247 | <0.0244 | <0.027 | <0.0137 | <0.0127 | <0.0287 | <0.0144 | <0.013 | <0.123 | <0.012 | <0.0143 | <0.0142 | <0.14 |
| 4-Chlorophenyl-phenylether | NS | NS | <0.126 | <0.129 | <0.0133 | <0.0134 | <0.137 | <0.0124 | <0.0265 | <0.0263 | <0.029 | <0.0147 | <0.0136 | <0.0309 | <0.0154 | <0.014 | <0.132 | <0.0129 | <0.0153 | <0.0153 | <0.15 |
| 4-Nitrophenol | NS | NS | <0.113 | <0.116 | <0.0119 | <0.012 | <0.123 | <0.0111 | <0.0236 | <0.0235 | <0.026 | <0.0132 | <0.0122 | <0.0276 | <0.0138 | <0.0125 | <0.118 | <0.0116 | <0.0137 | <0.0137 | <0.135 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | <0.0583 | <0.0599 | <0.00616 | <0.00624 | <0.0638 | <0.00575 | <0.0123 | <0.0122 | <0.0135 | <0.00683 | <0.00634 | <0.0143 | <0.00718 | <0.00649 | <0.0614 | <0.00599 | <0.00712 | <0.0071 | <0.0699 |
| Acenaphthylene | NS | NS | <0.0508 | <0.0521 | <0.00537 | <0.00543 | <0.0556 | <0.005 | <0.0107 | <0.0106 | <0.0118 | <0.00594 | <0.00552 | <0.0125 | <0.00623 | <0.00565 | <0.0534 | <0.00521 | <0.00619 | <0.00618 | <0.0608 |
| Anthracene | 5.0E+04 | 2.3E+05 | <0.0642 | <0.0659 | <0.0068 | <0.00686 | <0.0702 | <0.00632 | <0.0136 | <0.0135 | **0.198** | <0.00752 | <0.00698 | <0.0158 | <0.00788 | <0.00714 | <0.0675 | <0.00659 | <0.00782 | <0.00781 | <0.0769 |
| Benzidine | NS | NS | <0.677 | <0.696 | <0.0717 | <0.0724 | <0.741 | <0.0668 | <0.143 | <0.141 | <0.156 | <0.0793 | <0.0736 | <0.166 J3,J6 | <0.0832 | <0.0754 | <0.713 | <0.0696 | <0.0826 | <0.0824 | <0.812 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | <0.0635 | <0.0653 | **0.342** | **0.157** | <0.0695 | <0.00626 | <0.0134 | <0.0132 | **0.929** | <0.00744 | <0.00691 | <0.0155 | <0.0078 | <0.00707 | <0.0668 | <0.00653 | <0.00775 | **0.064** | <0.0761 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | <0.057 | <0.0588 | **0.534** | **0.25** | <0.0733 | <0.0065 | <0.0142 | <0.014 | **1.12** | <0.00785 | <0.00728 | <0.0165 | <0.00823 | <0.00745 | <0.0705 | <0.00688 | <0.00817 | **0.0982** | <0.0802 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | <0.0672 | <0.069 | **0.834** | **0.358** | <0.0736 | <0.00662 | **0.0864** | <0.014 | **1.28** | <0.00767 | <0.00731 | <0.0165 | <0.00825 | <0.00748 | **0.489** | <0.0069 | <0.0082 | **0.0982** | <0.0805 |
| Benzo(g,h,i)perylene | NS | NS | <0.0859 | <0.0877 | **0.408** | **0.2** | <0.0721 | <0.00649 | <0.0139 | <0.0138 | **0.622** | <0.00772 | <0.00716 | <0.0162 | <0.00809 | <0.00733 | <0.0693 | <0.00677 | <0.00804 | <0.00802 | <0.0789 |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | <0.0641 | <0.0658 | **0.228** | **0.107** | <0.0701 | <0.00631 | <0.0135 | <0.0134 | **0.46** | <0.0075 | <0.00696 | <0.0157 | <0.00787 | <0.00713 | <0.0674 | <0.00658 | <0.00782 | <0.0078 | <0.0767 |
| Benzylbutyl phthalate | NS | NS | <0.113 | <0.116 | <0.0119 | <0.012 | <0.123 | <0.0111 | <0.0238 | <0.0235 | <0.026 | <0.0132 | <0.0122 | <0.0276 | <0.0138 | <0.0125 | <0.118 | <0.0116 | <0.0137 | <0.0137 | <0.135 |
| Bis(2-chloroethoxy)methane | NS | NS | <0.108 | <0.111 | <0.0115 | <0.0116 | <0.118 | <0.0107 | <0.0228 | <0.0226 | <0.025 | <0.0127 | <0.0118 | <0.0266 | <0.0133 | <0.012 | <0.114 | <0.0111 | <0.0132 | <0.0132 | <0.13 |
| Bis(2-chloroethyl)ether | 8.4E+00 | 4.7E-01 | <0.119 | <0.122 | <0.0126 | <0.0127 | <0.13 | <0.0117 J4 | <0.0251 | <0.0249 | <0.0275 | <0.0139 | <0.0129 | <0.0292 | <0.0146 | <0.0132 | <0.125 J4 | <0.0122 J4 | <0.0145 J4 | <0.0145 | <0.143 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.6E+02 | <0.457 | <0.469 | <0.0484 | <0.0488 | <0.5 | <0.045 | <0.0964 | <0.0955 | <0.106 | <0.0535 | <0.0496 | <0.112 | <0.0561 | <0.0508 | <0.48 | <0.0469 | <0.0557 | <0.0556 | <0.547 |
| Chrysene | 9.1E+03 | 2.1E+03 | <0.0715 | <0.0736 | **0.393** | **0.174** | <0.0784 | <0.00706 | <0.0151 | <0.0149 | **1.2** | <0.00839 | <0.00779 | <0.0175 | <0.0088 | <0.00797 | <0.0754 | <0.00736 | <0.00874 | **0.0548** | <0.0858 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | <0.0899 | <0.105 | **0.112** | **0.0467** | <0.109 | <0.00984 | <0.0211 | <0.0209 | **0.18** | <0.0117 | <0.0109 | <0.0246 | <0.0123 | <0.0111 | <0.105 | <0.0103 | <0.0122 | <0.012 | <0.12 |
| Diethyl phthalate | 1.5E+05 | 6.6E+05 | <0.119 | <0.123 | <0.0126 | <0.0127 | <0.13 | <0.0117 | <0.0251 | <0.0249 | <0.0275 | <0.0139 | <0.0129 | <0.0292 | <0.0146 | <0.0132 | <0.125 | <0.0122 | <0.0145 | <0.0145 | <0.143 |
| Dimethyl phthalate | NS | NS | <0.784 | <0.785 | <0.0809 | <0.0817 | <0.836 | <0.0753 | <0.161 | <0.16 | <0.178 | <0.0895 | <0.0831 | <0.187 | <0.0938 | <0.085 | <0.804 | <0.0785 | <0.0932 | <0.093 | <0.915 |
| Di-n-butyl phthalate | NS | NS | <0.123 | <0.127 | <0.0131 | <0.0132 | <0.135 | <0.0122 | <0.026 | <0.0258 | <0.0285 | <0.0144 | <0.0134 | <0.0303 | <0.0152 | <0.0137 | <0.13 | <0.0127 | <0.0151 | <0.015 | <0.148 |
| Di-n-octyl phthalate | NS | NS | <0.244 | <0.25 | <0.0258 | <0.026 | <0.267 | <0.024 | <0.0514 | <0.0509 | <0.0563 | <0.0285 | <0.0265 | <0.0597 | <0.0299 | <0.0271 | <0.259 | <0.025 | <0.0297 | <0.0296 | <0.292 |
| Fluoranthene | 9.7E+03 | 3.0E+04 | <0.065 | <0.0668 | **0.376** | **0.18** | <0.0712 | <0.00641 | **0.0868** | <0.0136 | **1.41** | <0.00762 | <0.00707 | <0.0159 | <0.00799 | <0.00724 | **0.385** | <0.00668 | <0.00793 | **0.0754** | <0.0779 |
| Fluorene | 8.7E+03 | 3.0E+04 | <0.0587 | <0.0603 | <0.00621 | <0.00627 | <0.0642 | <0.00578 | <0.0123 | <0.0122 | <0.0135 | <0.00687 | <0.00638 | <0.0143 | <0.0072 | <0.00653 | <0.0617 | <0.00603 | <0.00716 | <0.00714 | <0.0703 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | <0.121 | <0.125 | <0.0128 | <0.013 | <0.133 | <0.0119 | <0.0256 | <0.0254 | <0.028 | <0.0142 | <0.0132 | <0.0297 | <0.0149 | <0.0135 | <0.128 | <0.0125 | <0.0148 | <0.0147 | <0.145 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | <0.128 | <0.131 | <0.0135 | <0.0137 | <0.14 | <0.0125 | <0.027 | <0.0267 | <0.0295 | <0.015 | <0.0139 | <0.0313 | <0.0157 | <0.0142 | <0.134 | <0.0131 | <0.0156 | <0.0155 | <0.153 |
| Hexachlorocyclopentadiene | NS | NS | <0.188 | <0.195 | <0.0201 | <0.0203 | <0.207 | <0.0187 | <0.04 | <0.0396 | <0.0438 | <0.0222 | <0.0206 | <0.0465 | <0.0233 | <0.0211 | <0.199 | <0.0195 | <0.0231 | <0.023 | <0.227 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | <0.142 | <0.146 | <0.015 | <0.0152 | <0.155 | <0.014 | <0.0298 | <0.0297 | <0.0328 | <0.0166 | <0.0154 | <0.0348 | <0.0174 | <0.0158 | <0.149 | <0.0146 | <0.0173 | <0.0172 | <0.17 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | <0.102 | <0.105 | **0.434** | **0.218** | <0.111 | <0.01 | <0.0215 | <0.0213 | **0.888** | <0.0119 | <0.0111 | <0.025 | <0.0125 | <0.0113 | <0.107 | <0.0105 | <0.0124 | <0.0124 | <0.122 |
| Isophorone | NS | NS | <0.11 | <0.113 | <0.0117 | <0.0118 | <0.121 | <0.0109 | <0.0233 | <0.0231 | <0.0255 | <0.0129 | <0.012 | <0.0271 | <0.0136 | <0.0123 | <0.116 | <0.0113 | <0.0135 | <0.0134 | <0.132 |
| Naphthalene | 4.0E+02 | 1.7E+01 | <0.0805 | <0.0829 | **0.176** | **0.104** | **0.52** | <0.00892 | <0.0191 | <0.0189 | <0.0209 | <0.0106 | <0.00983 | <0.0222 | <0.0111 | <0.0101 | <0.0952 | <0.00928 | <0.011 | **0.111** | <0.108 |
| Nitrobenzene | NS | NS | <0.126 | <0.129 | <0.0133 | <0.0134 | <0.137 | <0.0124 | <0.0265 | <0.0263 | <0.029 | <0.0147 | <0.0136 | <0.0308 | <0.0154 | <0.014 | <0.132 | <0.0129 | <0.0153 | <0.0153 | <0.15 |
| n-Nitrosodimethylamine | NS | NS | <0.535 | <0.549 | <0.0566 | <0.0572 | <0.585 | <0.0527 | <0.113 | <0.112 | <0.124 | <0.0626 | <0.0581 | <0.131 | <0.0657 | <0.0595 | <0.562 | <0.0549 | <0.0652 | <0.065 | <0.64 |
| n-Nitrosodi-n-propylamine | NS | NS | <0.12 | <0.123 | <0.0127 | <0.0128 | <0.131 | <0.0118 | <0.0254 | <0.0251 | <0.0276 | <0.0141 | <0.0131 | <0.0295 | <0.0148 | <0.0134 | <0.126 | <0.0123 | <0.0147 | <0.0146 | <0.144 |
| n-Nitrosodiphenylamine | NS | NS | <0.273 | <0.28 | <0.0289 | <0.0292 | <0.298 | <0.0269 | <0.0578 | <0.057 | <0.063 | <0.0319 | <0.0296 | <0.0666 | <0.0335 | <0.0303 | <0.287 | <0.028 | <0.0332 | <0.0332 | <0.327 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | <0.097 | <0.0996 | <0.0103 | <0.0104 | <0.106 | <0.00956 | <0.0204 | <0.0203 | <0.0224 | <0.0114 | <0.0105 | <0.0238 | <0.0118 | <0.0108 | <0.102 | <0.00996 | <0.0118 | <0.0118 | <0.116 |
| Phenanthrene | NS | NS | <0.0715 | <0.0735 | **0.127** | **0.105** | <0.0783 | <0.00705 | <0.0151 | <0.0149 | **0.806** | <0.00838 | <0.00778 | <0.0175 | <0.00879 | <0.00796 | <0.0753 | <0.00735 | <0.00873 | **0.0841** | <0.0857 |
| Phenol | 6.0E+04 | 3.5E+05 | <0.145 | <0.149 | <0.0154 | <0.0155 | <0.159 | <0.0143 | <0.0306 | <0.0303 | <0.0335 | <0.017 | <0.0158 | <0.0356 | <0.0178 | <0.0161 | <0.153 | <0.0149 | <0.0177 | <0.0176 | <0.174 |
| Pyrene | 5.0E+03 | 2.3E+04 | <0.0781 | <0.072 | **0.392** | **0.18** | <0.0768 | <0.00691 | **0.0967** | <0.0147 | **1.66** | <0.00821 | <0.00762 | <0.0173 | <0.00861 | <0.0078 | **0.417** | <0.0072 | <0.00855 | **0.0783** | <0.084 |

Notes:
Yellow shaded concentrations exceed the Construction Worker ESLs.
Boxed concentrations exceed the Commercial/Industrial ESLs.
— = Not used.
< = Not detected at or above method detection limit.
Bold = Detected concentration.
ESL = Environmental Screening Level.
ft bgs = Feet below ground surface.
mg/kg = Milligrams per kilogram.
NS = No standard established.
RWQCB = Regional Water Quality Control Board.
SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.
J = The identification of the analyte is acceptable; the report value is an estimate.
J3 = The associated batch quality control was outside the established quality control for precision.
J4 = The associated batch quality control was outside the established quality control for accuracy.
J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.
R = Data rejected for laboratory quality assurance/quality control reasons.
T8 = Sample received past/too close to holding time expiration.
[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1) Shallow Soil Exposure, January 2019.
[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels, May 2024.

Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2018 RWQCB | 2018 RWQCB | GAUC-B3-1 | GAUC-B3-1 | GAUC-B8-1 | GAUC-B8-1 | GAUC-B9-1 | GAUC-H4-1 | GAUC-I4-1 | GAUC44-1 | GAUC44-1 | GAUC44-1 | G-A1-1 | G-A1-1 | G-A1-1 | G-B3-1 | G-B3-1 | G-B3-1 | G-B3-1 | G-B3-1 | G-B3-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 1.0 | 3.0 | 4.0 | 4.0 | 5.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 5.0 | 1.0 | 2.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.6E+02 | 1.1E+02 | <0.0232 | <0.0132 | <0.0124 | <0.026 | <0.0139 | <0.012 | <0.0114 | <0.0124 | <0.0254 | <0.0128 | <0.116 | <0.116 | <0.0114 | <0.0112 | <0.0113 R | <0.0113 R | <0.0125 | <0.0125 | <0.0116 R |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | <0.0219 | <0.0125 | <0.0116 | <0.0246 | <0.0132 | <0.0114 | <0.0108 | <0.0118 | <0.024 | <0.0122 | <0.11 | <0.11 | <0.0108 | <0.0106 | <0.0107 | <0.0107 | <0.0122 | <0.0119 | <0.0112 |
| 1,3-Dichlorobenzene | NS | NS | <0.0225 | <0.0128 | <0.0121 | <0.0252 | <0.0135 | <0.0117 | <0.0111 | <0.0121 | <0.0248 | <0.0125 | <0.113 | <0.113 | <0.011 | <0.0109 | <0.011 | <0.011 | <0.0125 | <0.0122 | <0.0114 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | <0.0221 | <0.0126 | <0.0119 | <0.0247 | <0.0133 | <0.0114 | <0.0109 | <0.0119 | <0.0242 | <0.0122 | <0.111 | <0.111 | <0.0108 | <0.0107 | <0.0108 | <0.0108 | <0.0122 | <0.012 | <0.0112 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | <0.0321 | <0.0182 | <0.0172 | <0.036 | <0.0193 | <0.0168 | <0.0158 | <0.0172 | <0.0351 | <0.0176 | <0.161 | <0.161 | <0.0157 | <0.0155 | <0.0157 | <0.0157 | <0.0176 | <0.0174 | <0.0163 |
| 2,4,6-Tribromophenol | NS | NS | **0.501** | **0.389** | **0.384** | **0.306** | **0.291** | **0.413** | **0.419** | **0.433** | **0.363** | **0.274** | **0.495** | **1.05** | **0.577** | **0.252** | **0.295** | **0.283** | **0.323** | **0.297** | **0.303** |
| 2,4,6-Trichlorophenol | 3.6E+02 | 4.7E+01 | <0.0238 | <0.0136 | <0.0126 | <0.0267 | <0.0143 | <0.0124 | <0.0118 | <0.0128 | <0.0261 | <0.0132 | <0.119 | <0.119 | <0.0117 | <0.0115 | <0.0117 | <0.0117 | <0.0132 | <0.0129 | <0.0121 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | <0.0216 | <0.0123 | <0.0116 | <0.0242 | <0.013 | <0.0112 | <0.0107 | <0.0116 | <0.0237 | <0.012 | <0.108 | <0.108 | <0.0106 | <0.0104 | <0.0106 | <0.0105 | <0.012 | <0.0117 | <0.011 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | <0.0194 | <0.011 | <0.0104 | <0.0217 | <0.0117 | <0.01 | <0.00956 | <0.0104 | <0.0212 | <0.0107 | <0.0971 | <0.0971 | <0.00951 | <0.00936 | <0.00947 | <0.00946 | <0.0107 | <0.0105 | <0.00985 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | <0.174 | <0.0987 | <0.0932 | <0.195 | <0.104 | <0.0899 | <0.0858 | <0.0932 | <0.19 J3J6 | <0.0962 | <0.869 | <0.869 J6 | <0.0852 | <0.0838 | <0.0848 | <0.0847 | <0.0962 | <0.094 | <0.0882 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | <0.0213 | <0.0121 | <0.0114 | <0.0239 | <0.0128 | <0.011 | <0.0105 | <0.0114 | <0.0233 | <0.0118 | <0.107 | <0.107 | <0.0104 | <0.0103 | <0.0104 | <0.0104 | <0.0118 | <0.0115 | <0.0108 |
| 2,6-Dinitrotoluene | NS | NS | <0.0243 | <0.0138 | <0.013 | <0.0272 | <0.0146 | <0.0126 | <0.012 | <0.013 | <0.0266 | <0.0135 | <0.122 | <0.122 | <0.0119 | <0.0117 | <0.0119 | <0.0119 | <0.0135 | <0.0131 | <0.0123 |
| 2-Chloronaphthalene | NS | NS | <0.013 | <0.00741 | <0.007 | <0.0146 | <0.00784 | <0.00675 | <0.00643 | <0.007 | <0.0143 | <0.00723 | <0.0653 | <0.0653 | <0.0064 | <0.00629 | <0.00637 | <0.00636 | <0.00722 | <0.00706 | <0.00662 |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | <0.0245 | <0.0139 | <0.0132 | <0.0275 | <0.0147 | <0.0127 | <0.0121 | <0.0132 | <0.0268 | <0.0136 | <0.123 | <0.123 | <0.012 | <0.0118 | <0.012 | <0.012 | <0.0136 | <0.0133 | <0.0125 |
| 2-Fluorobiphenyl | NS | NS | **0.336** | **0.197** | **0.208** | **0.206** | **0.184** | **0.189** | **0.215** | **0.21** | **0.221** | **0.184** | **0.308** | **0.508** | **0.29** | **0.144** | **0.164** | **0.161** | **0.168** | **0.161** | **0.168** |
| 2-Fluorophenol | NS | NS | **0.462** | **0.416** | **0.472** | **0.368** | **0.345** | **0.438** | **0.468** | **0.468** | **0.428** | **0.364** | **0.869** | **1.12** | **0.815** | **0.327** | **0.37** | **0.354** | **0.387** | **0.362** | **0.367** |
| 2-Nitrophenol | NS | NS | <0.0265 | <0.0151 | <0.0142 | <0.0297 | <0.0159 | <0.0137 | <0.0131 | <0.0142 | <0.029 | <0.0147 | <0.133 | <0.133 | <0.013 | <0.0128 | <0.013 | <0.0129 | <0.0147 | <0.0144 | <0.0135 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | <0.0274 | <0.0156 | <0.0147 | <0.0307 | <0.0165 | <0.0142 | <0.0135 | <0.0147 | <0.03 | <0.0152 | <0.137 | <0.137 | <0.0134 | <0.0132 | <0.0134 | <0.0134 | <0.0152 | <0.0148 | <0.0139 |
| 4,6-Dinitro-2-methylphenol | NS | NS | <0.188 | <0.0958 | <0.0903 | <0.189 | <0.101 | <0.0872 | <0.0829 | <0.0903 | <0.184 | <0.0933 | <0.843 | <0.842 | <0.0826 | <0.0812 | <0.0822 | <0.0821 | <0.0932 | <0.0911 | <0.0856 |
| 4-Bromophenyl-phenylether | NS | NS | <0.0261 | <0.0148 | <0.014 | <0.0292 | <0.0157 | <0.0135 | <0.0129 | <0.014 | <0.0286 | <0.0145 | <0.131 | <0.131 | <0.0128 | <0.0126 | <0.0127 | <0.0127 | <0.0144 | <0.0141 | <0.0132 |
| 4-Chloro-3-methylphenol | NS | NS | <0.0241 | <0.0137 | <0.0129 | <0.027 | <0.0145 | <0.0125 | <0.0119 | <0.0129 | <0.0264 | <0.0133 | <0.121 | <0.121 | <0.0118 | <0.0116 | <0.0118 | <0.0117 | <0.0133 | <0.013 | <0.0122 |
| 4-Chlorophenyl-phenylether | NS | NS | <0.0258 | <0.0147 | <0.0139 | <0.029 | <0.0155 | <0.0134 | <0.0127 | <0.0139 | <0.0283 | <0.0143 | <0.129 | <0.129 | <0.0127 | <0.0125 | <0.0126 | <0.0126 | <0.0143 | <0.014 | <0.0131 |
| 4-Nitrophenol | NS | NS | <0.0232 | <0.0132 | <0.0124 | <0.026 | <0.0139 | <0.012 | <0.0114 | <0.0124 | <0.0254 | <0.0128 | <0.116 | <0.116 | <0.0114 | <0.0112 | <0.0113 | <0.0113 | <0.0128 | <0.0125 | <0.0116 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | <0.012 | <0.00683 | <0.00645 | <0.0135 | <0.00722 | <0.00622 | <0.00592 | <0.00645 | <0.0130 | <0.00666 | <0.0602 | <0.0601 | <0.00589 | <0.0058 | <0.00587 | <0.00586 | <0.00666 | <0.0065 | <0.0061 |
| Acenaphthylene | NS | NS | <0.0104 | <0.00594 | <0.00561 | <0.0117 | <0.00629 | <0.00542 | <0.00515 | <0.00561 | <0.0114 | <0.00579 | <0.0523 | <0.0523 | <0.00513 | <0.00505 | <0.00511 | <0.0051 | <0.00579 | <0.00566 | <0.00531 |
| Anthracene | 5.0E+04 | 2.3E+05 | <0.0133 | <0.00751 | <0.00709 | <0.0149 | <0.00795 | <0.00685 | <0.00651 | <0.00709 | <0.0145 | <0.00733 | <0.0662 | <0.0662 | <0.00648 | <0.00638 | <0.00648 | <0.00645 | <0.00732 | <0.00715 | <0.00672 |
| Benzidine | NS | NS | <0.139 | <0.0793 | <0.0749 | <0.156 | <0.0839 | <0.0723 | <0.0688 | <0.0749 | <0.153 | <0.0773 | <0.699 | <0.698 | <0.0684 | <0.0674 | <0.0682 | <0.0681 | <0.0773 | <0.0755 | <0.0709 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | <0.013 | <0.00743 | <0.00702 | <0.0146 | <0.00787 | <0.00678 | <0.00645 | <0.00703 | <0.0143 | <0.00725 | <0.0655 | <0.0655 | <0.00642 | <0.00632 | <0.00639 | <0.00638 | <0.00725 | <0.00708 | <0.00665 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | <0.0135 | <0.00764 | <0.0074 | <0.0155 | <0.0083 | <0.00715 | <0.0068 | <0.0074 | <0.0151 | <0.00765 | <0.0691 | <0.0691 | <0.00677 | <0.00666 | <0.00674 | <0.0067 | <0.00764 | <0.00747 | <0.00701 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | <0.0138 | <0.00786 | <0.00743 | <0.0155 | <0.00832 | <0.00717 | <0.00682 | <0.00743 | <0.0151 | <0.00767 | <0.0693 | <0.0693 | <0.00679 | <0.00668 | <0.00676 | <0.00675 | <0.00767 | <0.00749 | <0.00703 |
| Benzo(g,h,i)perylene | NS | NS | <0.0136 | <0.00771 | <0.00726 | <0.0152 | <0.00816 | <0.00703 | <0.00669 | <0.00726 | <0.0148 | <0.00752 | <0.068 | <0.0679 | <0.00666 | <0.00655 | <0.00663 | <0.00662 | <0.00752 | <0.00735 | <0.0069 |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | <0.0131 | <0.0075 | <0.00708 | <0.0147 | <0.00793 | <0.00684 | <0.0065 | <0.00708 | <0.0144 | <0.00731 | <0.0661 | <0.0661 | <0.00647 | <0.00637 | <0.00645 | <0.00644 | <0.00731 | <0.00714 | <0.0067 |
| Benzylbutyl phthalate | NS | NS | <0.0232 | <0.0132 | <0.0124 | <0.026 | <0.0139 | <0.012 | <0.0114 | <0.0124 | <0.0254 | <0.0128 | <0.116 | <0.116 | <0.0114 | <0.0112 | <0.0113 | <0.0113 | <0.0128 | <0.0125 | <0.0116 |
| Bis(2-chloroethoxy)methane | NS | NS | <0.0233 | <0.0127 | <0.012 | <0.025 | <0.0134 | <0.0115 | <0.011 | <0.012 | <0.0244 | <0.0124 | <0.112 | <0.112 | <0.0109 | <0.0108 | <0.0109 | <0.0109 | <0.0123 | <0.0121 | <0.0113 |
| Bis(2-chloroethyl)ether | 6.4E+00 | 4.7E-01 | <0.0245 | <0.0138 | <0.0132 | <0.0275 | <0.0147 | <0.0127 | <0.0121 | <0.0132 | <0.0268 | <0.0136 | <0.123 | <0.123 | <0.012 | <0.0118 | <0.012 | <0.012 | <0.0136 | <0.0133 | <0.0125 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.6E+02 | <0.094 | <0.0534 | <0.0505 | <0.105 | <0.0566 | <0.0487 | <0.0464 | <0.0505 | <0.103 | <0.0521 | <0.471 | <0.471 | <0.0461 | <0.0454 | <0.046 | <0.0459 | <0.0521 | <0.0509 | <0.0478 |
| Chrysene | 9.1E+03 | 2.1E+03 | <0.0147 | <0.00838 | <0.00792 | <0.0165 | <0.00887 | <0.00764 | <0.00727 | <0.00792 | <0.0161 | <0.00816 | <0.0739 | <0.0739 | <0.00724 | <0.00712 | <0.00721 | <0.0072 | <0.00817 | <0.00799 | <0.0075 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | <0.0206 | <0.0117 | <0.011 | <0.0231 | <0.0124 | <0.0107 | <0.0101 | <0.011 | <0.0226 | <0.0114 | <0.103 | <0.103 | <0.0101 | <0.00993 | <0.0101 | <0.01 | <0.0114 | <0.0111 | <0.0105 |
| Diethyl phthalate | 1.5E+05 | 6.6E+05 | <0.0245 | <0.0139 | <0.0132 | <0.0275 | <0.0147 | <0.0127 | <0.0121 | <0.0132 | <0.0268 | <0.0136 | <0.123 | <0.123 | <0.012 | <0.0118 | <0.012 | <0.012 | <0.0136 | <0.0133 | <0.0125 |
| Dimethyl phthalate | NS | NS | <0.157 | <0.0894 | <0.0844 | <0.176 | <0.0946 | <0.0815 | <0.0778 | <0.0844 | <0.172 | <0.0872 | <0.788 | <0.788 | <0.0772 | <0.076 | <0.0769 | <0.0768 | <0.0872 | <0.0852 | <0.0799 |
| Di-n-butyl phthalate | NS | NS | <0.0254 | <0.0144 | <0.0136 | <0.0285 | <0.0153 | <0.0132 | <0.0125 | <0.0136 | <0.0278 | <0.0141 | <0.127 | <0.127 | <0.0125 | <0.0123 | <0.0124 | <0.0124 | <0.0141 | <0.0138 | <0.0129 |
| Di-n-octyl phthalate | NS | NS | <0.0501 | <0.0285 | <0.0269 | <0.0562 | <0.0302 | <0.026 | <0.0247 | <0.0269 | <0.0548 | <0.0278 | <0.251 | <0.251 J5 | <0.0246 | <0.0242 | <0.0245 | <0.0245 | <0.0278 | <0.0271 | <0.0255 |
| Fluoranthene | 9.7E+03 | 3.0E+04 | <0.0134 | <0.00781 | <0.00719 | <0.015 | <0.00805 | <0.00694 | <0.0066 | <0.00719 | <0.0146 | <0.00742 | <0.0671 | <0.0671 | <0.00657 | <0.00647 | <0.00654 | <0.00653 | <0.00742 | <0.00725 | <0.00681 |
| Fluorene | 8.7E+03 | 3.0E+04 | <0.012 | <0.00698 | <0.00648 | <0.0135 | <0.00726 | <0.00626 | <0.00595 | <0.00648 | <0.0132 | <0.0067 | <0.0605 | <0.0605 | <0.00593 | <0.00583 | <0.0059 | <0.00589 | <0.00669 | <0.00654 | <0.00614 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | <0.025 | <0.0142 | <0.0134 | <0.028 | <0.015 | <0.0129 | <0.0123 | <0.0134 | <0.0273 | <0.0138 | <0.125 | <0.125 | <0.0122 | <0.0121 | <0.0122 | <0.0122 | <0.0138 | <0.0135 | <0.0127 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | <0.0263 | <0.0149 | <0.0141 | <0.0295 | <0.0158 | <0.0136 | <0.013 | <0.0141 | <0.0288 | <0.0146 | <0.132 | <0.132 | <0.0129 | <0.0127 | <0.0128 | <0.0128 | <0.0146 | <0.0142 | <0.0134 |
| Hexachlorocyclopentadiene | NS | NS | <0.030 | <0.0222 | <0.0209 | <0.0437 | <0.0235 | <0.0202 | <0.0192 | <0.0209 | <0.0427 J3J6 | <0.0216 | <0.195 | <0.195 J3J6 | <0.0191 | <0.0188 | <0.0191 | <0.019 | <0.0216 | <0.0211 | <0.0198 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | <0.0292 | <0.0166 | <0.0157 | <0.0327 | <0.0176 | <0.0151 | <0.0144 | <0.0157 | <0.032 | <0.0162 | <0.146 | <0.146 | <0.0143 | <0.0141 | <0.0143 | <0.0142 | <0.0162 | <0.0158 | <0.0148 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | <0.0206 | <0.0118 | <0.0113 | <0.0235 | <0.0126 | <0.0108 | <0.0103 | <0.0113 | <0.0228 | <0.0116 | <0.105 | <0.105 | <0.0103 | <0.0101 | <0.0102 | <0.0102 | <0.0116 | <0.0114 | <0.0107 |
| Isophorone | NS | NS | <0.0227 | <0.0129 | <0.0122 | <0.0255 | <0.0137 | <0.0118 | <0.0112 | <0.0122 | <0.0249 | <0.0126 | <0.114 | <0.114 | <0.0112 | <0.011 | <0.0111 | <0.0111 | <0.0126 | <0.0123 | <0.0116 |
| Naphthalene | 4.0E+02 | 1.7E+01 | <0.0166 | <0.0106 | <0.01 | <0.0209 | <0.0112 | <0.00965 | <0.00918 | <0.01 | <0.0204 | <0.0103 | <0.0933 | <0.0933 | <0.00914 | <0.00898 | <0.0091 | <0.00908 | <0.0103 | <0.0101 | <0.00947 |
| Nitrobenzene | NS | NS | <0.0258 | <0.0147 | <0.0139 | <0.029 | <0.0155 | <0.0134 | <0.0127 | <0.0139 | <0.0283 | <0.0143 | <0.129 | <0.129 | <0.0127 | <0.0125 | <0.0126 | <0.0126 | <0.0143 | <0.014 | <0.0131 |
| n-Nitrosodimethylamine | NS | NS | <0.11 | <0.0626 | <0.0591 | <0.123 | <0.0662 | <0.057 | <0.0543 | <0.0591 | <0.121 | <0.061 | <0.551 | <0.551 J6 | <0.054 | <0.0532 | <0.0536 | <0.0537 | <0.061 | <0.0596 | <0.0559 |
| n-Nitrosodi-n-propylamine | NS | NS | <0.0247 | <0.0141 | <0.0133 | <0.0277 | <0.0149 | <0.0128 | <0.0122 | <0.0133 | <0.0271 | <0.0137 | <0.124 | <0.124 | <0.0121 | <0.0119 | <0.0121 | <0.0121 | <0.0137 | <0.0134 | <0.0126 |
| n-Nitrosodiphenylamine | NS | NS | <0.0561 | <0.0319 | <0.0301 | <0.063 | <0.0338 | <0.0291 | <0.0277 | <0.0301 | <0.0615 | <0.0311 | <0.281 | <0.281 | <0.0276 | <0.0271 | <0.0274 | <0.0274 | <0.0311 | <0.0304 | <0.0285 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | <0.0198 | <0.0113 | <0.0107 | <0.0224 | <0.012 | <0.0103 | <0.00984 | <0.0107 | <0.0218 | <0.0111 | <0.1 | <0.1 | <0.0098 | <0.00964 | <0.00976 | <0.00974 | <0.0111 | <0.0108 | <0.0101 |
| Phenanthrene | NS | NS | <0.0147 | <0.00837 | <0.0079 | <0.0165 | <0.00886 | <0.00763 | <0.00726 | <0.0079 | <0.0161 | <0.00817 | <0.0738 | <0.0738 | <0.00723 | <0.00711 | <0.0072 | <0.00719 | <0.00816 | <0.00797 | <0.00749 |
| Phenol | 6.5E+04 | 3.5E+05 | <0.0298 | <0.017 | <0.016 | <0.0335 | <0.018 | <0.0155 | <0.0147 | <0.016 | <0.0327 | <0.0166 | <0.15 | <0.15 | <0.0147 | <0.0144 | <0.0146 | <0.0146 | <0.0165 | <0.0162 | <0.0152 |
| Pyrene | 5.0E+03 | 2.3E+04 | <0.0145 | <0.00821 | <0.00775 | <0.0162 | <0.00868 | <0.00748 | <0.00712 | <0.00775 | <0.0159 | <0.008 | <0.0723 | <0.0723 | <0.00709 | <0.00697 | <0.00708 | <0.00706 | <0.008 | <0.00782 | <0.00734 |

Notes:
Yellow shaded concentrations exceed the Construction Worker ESLs.
Red shaded concentrations exceed the Commercial/Industrial ESLs.
— = Not used.
< = Not detected at or above method detection limit.
Bold = Detected concentration.
ESL = Environmental Screening Level.
ft bgs = Feet below ground surface.
mg/kg = Milligrams per kilogram.
NS = No standard established.
RWQCB = Regional Water Quality Control Board.
SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.
J = The identification of the analyte is acceptable; the report value is an estimate.
J3 = The associated batch quality control was outside the established quality control for precision.
J4 = The associated batch quality control was outside the established quality control for accuracy.
J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.
R = Data rejected for laboratory quality assurance/quality control reasons.
TB = Sample received past/too close to holding time expiration.
[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2018, Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1); Shallow Soil Exposure, January 2019.
[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels, May 2024.

**Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-B3-1 | G-C2-1 | G-C2-1 | G-C3-1 | G-C3-1 | G-C3-1 | G-D1-1 | G-D1-1 | G-D1-1 | G-D2-1 | G-D2-1 | G-D2-1 | G-D3-1 | G-D3-1 | G-D3-1 | G-E1-1 | G-E1-1 | G-E1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | <0.0131 R | <0.114 | <0.112 R | <0.221 | <0.112 | <0.0125 R | <0.111 | <0.227 | <0.116 | <0.124 | <0.0241 | <0.124 | <0.0229 | <0.0123 | <0.0127 | <0.0128 | <0.119 | <0.119 | <0.123 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | <0.0124 | <0.108 | <0.107 | <0.208 | <0.107 | <0.0118 | <0.105 | <0.215 | <0.11 | <0.116 | <0.0228 | <0.116 | <0.0217 | <0.0116 | <0.012 | <0.0121 | <0.113 | <0.113 | <0.117 |
| 1,3-Dichlorobenzene | NS | NS | <0.0127 | <0.11 | <0.109 | <0.214 | <0.109 | <0.0121 | <0.107 | <0.221 | <0.112 | <0.121 | <0.0234 | <0.121 | <0.0223 | <0.0119 | <0.0123 | <0.0124 | <0.115 | <0.115 | <0.12 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | <0.0125 | <0.108 | <0.107 | <0.21 | <0.107 | <0.0119 | <0.105 | <0.216 | <0.11 | <0.119 | <0.0229 | <0.119 | <0.0218 | <0.0117 | <0.0121 | <0.0122 | <0.113 | <0.113 | <0.117 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | <0.0181 | <0.157 | <0.155 | <0.305 | <0.155 | <0.0173 | <0.153 | <0.314 | <0.16 | <0.172 | <0.0333 | <0.172 | <0.0317 | <0.017 | <0.0175 | <0.0177 | <0.164 | <0.165 | <0.171 |
| 2,4,6-Tribromophenol | NS | NS | **0.279** | **0.422** | **0.351** | **0.695 J7** | **0.414** | **0.437** | **0.512** | **0.486 J7** | **0.486** | **0.323** | **0.564** | **0.558** | **0.614** | **0.378** | **0.416** | **0.431** | **0.483** | **0.517** | **0.485** |
| 2,4,6-Trichlorophenol | 3.5E+02 | 4.7E+01 | <0.0135 | <0.117 | <0.115 | <0.227 | <0.115 | <0.0128 | <0.114 | <0.234 | <0.119 | <0.128 | <0.0248 | <0.128 | <0.0236 | <0.0126 | <0.013 | <0.0132 | <0.122 | <0.122 | <0.127 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | <0.0122 | <0.106 | <0.105 | <0.206 | <0.105 | <0.0116 | <0.103 | <0.212 | <0.108 | <0.116 | <0.0224 | <0.116 | <0.0214 | <0.0114 | <0.0118 | <0.0119 | <0.111 | <0.111 | <0.115 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | <0.0109 | <0.095 | <0.0939 | <0.185 | <0.0939 | <0.0104 | <0.0925 | <0.19 | <0.0967 | <0.104 | <0.0201 | <0.104 | <0.0192 | <0.0103 | <0.0106 | <0.0107 | <0.0993 | <0.0994 | <0.103 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | <0.098 | <0.85 | <0.841 | <1.65 | <0.841 | <0.0935 | <0.829 | <1.7 | <0.866 | <0.932 | <0.161 | <0.932 | <0.172 | <0.0919 | <0.0945 | <0.0956 | <0.889 | <0.89 | <0.923 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | <0.012 | <0.104 | <0.103 | <0.203 | <0.103 | <0.0115 | <0.102 | <0.209 | <0.106 | <0.114 | <0.0221 | <0.114 | <0.021 | <0.0113 | <0.0116 | <0.0117 | <0.109 | <0.109 | <0.113 |
| 2,6-Dinitrotoluene | NS | NS | <0.0137 | <0.119 | <0.118 | <0.231 | <0.118 | <0.0131 | <0.116 | <0.238 | <0.121 | <0.13 | <0.0252 | <0.13 | <0.024 | <0.0129 | <0.0133 | <0.0134 | <0.124 | <0.125 | <0.129 |
| 2-Chloronaphthalene | NS | NS | <0.00736 | <0.0638 | <0.0631 | <0.124 | <0.0631 | <0.00702 | <0.0622 | <0.128 | <0.065 | <0.07 | <0.0135 | <0.07 | <0.0129 | <0.0069 | <0.00712 | <0.00718 | <0.0668 | <0.0668 | <0.0693 |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | <0.0138 | <0.12 | <0.119 | <0.233 | <0.119 | <0.0132 | <0.117 | <0.24 | <0.122 | <0.132 | <0.0255 | <0.132 | <0.0242 | <0.013 | <0.0134 | <0.0135 | <0.126 | <0.126 | <0.13 |
| 2-Fluorobiphenyl | NS | NS | **0.163** | **0.237** | **0.237** | **0.339 J7** | **0.260** | **0.211** | **0.281** | **0.233 J7** | **0.22** | **0.229** | **0.204** | **0.246** | **0.197** | **0.175** | **0.175** | **0.183** | **0.236** | **0.243** | **0.268** |
| 2-Fluorophenol | NS | NS | **0.301** | **0.512** | **0.485** | **0.726 J7** | **0.482** | **0.439** | **0.542** | **0.553 J7** | **0.512** | **0.422** | **0.491** | **0.535** | **0.459** | **0.351** | **0.373** | **0.391** | **0.504** | **0.457** | **0.517** |
| 2-Nitrophenol | NS | NS | <0.015 | <0.13 | <0.128 | <0.252 | <0.128 | <0.0143 | <0.127 | <0.26 | <0.132 | <0.142 | <0.0275 | <0.142 | <0.0262 | <0.014 | <0.0145 | <0.0146 | <0.136 | <0.136 | <0.141 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | <0.0155 | <0.134 | <0.133 | <0.261 | <0.133 | <0.0148 | <0.131 | <0.269 | <0.137 | <0.147 | <0.0285 | <0.147 | <0.0271 | <0.0145 | <0.015 | <0.0151 | <0.14 | <0.141 | <0.146 |
| 4,6-Dinitro-2-methylphenol | NS | NS | <0.095 | <0.824 | <0.815 | <1.6 | <0.815 | <0.0906 | <0.803 | <1.65 | <0.839 | <0.904 | <0.175 | <0.904 | <0.166 | <0.0891 | <0.0916 | <0.0926 | <0.862 | <0.863 | <0.895 |
| 4-Bromophenyl-phenylether | NS | NS | <0.0147 | <0.128 | <0.126 | <0.248 | <0.126 | <0.014 | <0.124 | <0.256 | <0.13 | <0.14 | <0.0271 | <0.14 | <0.0256 | <0.0138 | <0.0142 | <0.0144 | <0.134 | <0.134 | <0.139 |
| 4-Chloro-3-methylphenol | NS | NS | <0.0138 | <0.118 | <0.117 | <0.229 | <0.117 | <0.013 | <0.115 | <0.236 | <0.12 | <0.129 | <0.025 | <0.129 | <0.0238 | <0.0127 | <0.0131 | <0.0132 | <0.123 | <0.123 | <0.128 |
| 4-Chlorophenyl-phenylether | NS | NS | <0.0146 | <0.127 | <0.125 | <0.246 | <0.125 | <0.0139 | <0.123 | <0.253 | <0.128 | <0.139 | <0.0268 | <0.139 | <0.0256 | <0.0137 | <0.0141 | <0.0143 | <0.132 | <0.133 | <0.137 |
| 4-Nitrophenol | NS | NS | <0.0131 | <0.114 | <0.112 | <0.221 | <0.112 | <0.0125 | <0.111 | <0.227 | <0.116 | <0.124 | <0.0241 | <0.124 | <0.0229 | <0.0123 | <0.0127 | <0.0128 | <0.119 | <0.119 | <0.123 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | <0.00678 | <0.0588 | <0.0582 | <0.115 | <0.0582 | <0.00647 | <0.0573 | <0.118 | <0.0599 | <0.0645 | <0.0125 | <0.0645 | <0.0119 | <0.00636 | <0.00656 | <0.00663 | <0.0615 | <0.0616 | <0.0639 |
| Acenaphthylene | NS | NS | <0.0059 | <0.0512 | <0.0506 | <0.0995 | <0.0506 | <0.00563 | <0.0499 | <0.102 | <0.0521 | <0.0561 | <0.0109 | <0.0561 | <0.0103 | <0.00554 | <0.00571 | <0.00577 | <0.0535 | <0.0536 | <0.0556 |
| Anthracene | 5.0E+04 | 2.3E+05 | <0.00746 | <0.0647 | <0.064 | <0.126 | <0.064 | <0.00712 | <0.0631 | <0.13 | <0.0659 | <0.071 | <0.0138 | <0.071 | <0.0131 | <0.007 | <0.00722 | <0.00729 | <0.0677 | <0.0678 | <0.0703 |
| Benzidine | NS | NS | <0.0788 | <0.682 | <0.676 | <1.33 | <0.676 | <0.0751 | <0.666 | <1.36 | <0.696 | <0.749 | <0.145 | <0.749 | <0.138 | <0.0738 | <0.0762 J6 | <0.077 | <0.714 | <0.715 | <0.742 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | <0.00736 | <0.0641 | <0.0634 | <0.124 | <0.0634 | <0.00705 | <0.0624 | <0.128 | <0.0652 | **0.403** | **0.465** | **2.93** | **0.533** | <0.00689 | **0.126 J3** | <0.00722 | <0.067 | **0.808** | **1.35** |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | <0.00779 | <0.0678 | <0.0669 | <0.132 | <0.0668 | <0.00743 | <0.0658 | <0.135 | <0.0688 | **0.522** | **0.595** | **3.82** | **0.53** | <0.00731 | **0.151 J3** | <0.00761 | <0.0706 | **0.704** | **1.55** |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | <0.00761 | <0.0678 | <0.067 | <0.132 | <0.067 | <0.00745 | <0.0661 | <0.135 | **0.48** | **0.706** | **0.778** | **5.64** | **0.865** | <0.00733 | **0.206 J3** | <0.00703 | **0.437** | **1.13** | **2.39** |
| Benzo(g,h,i)perylene | NS | NS | <0.00766 | <0.0665 | <0.0657 | <0.129 | <0.0657 | <0.00731 | <0.0648 | <0.133 | <0.0677 | <0.0729 | **0.318** | **1.59** | **0.388** | <0.00719 | **0.119 J3** | <0.00748 | <0.0695 | **0.481** | **1.1** |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | <0.00745 | <0.0646 | <0.0639 | <0.125 | <0.0639 | <0.00711 | <0.063 | <0.129 | <0.0658 | <0.0709 | **0.346** | **1.62** | **0.278** | <0.00699 | **0.0823** | <0.00726 | <0.0676 | <0.0676 | **0.738** |
| Benzylbutyl phthalate | NS | NS | <0.0131 | <0.114 | <0.112 | <0.221 | <0.112 | <0.0125 | <0.111 | <0.227 | <0.116 | <0.124 | <0.0241 | <0.124 | <0.0229 | <0.0123 | <0.0127 | <0.0128 | <0.119 | <0.119 | <0.123 |
| Bis(2-chloroethoxy)methane | NS | NS | <0.0126 | <0.108 | <0.108 | <0.212 | <0.108 | <0.012 | <0.106 | <0.218 | <0.111 | <0.12 | <0.0231 | <0.12 | <0.022 | <0.0118 | <0.0122 | <0.0123 | <0.114 | <0.114 | <0.118 |
| Bis(2-chloroethyl)ether | 6.4E+00 | 4.7E-01 | <0.0138 | <0.12 | <0.119 | <0.233 | <0.119 | <0.0132 | <0.117 | <0.24 | <0.122 | <0.132 | <0.0255 | <0.132 | <0.0242 | <0.013 | <0.0134 | <0.0135 | <0.128 | <0.128 | <0.13 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.6E+02 | <0.0531 | <0.461 | <0.455 | <0.895 | <0.455 | <0.0507 | <0.449 | <0.922 | <0.469 | <0.505 | <0.0977 | <0.505 | <0.093 | <0.0498 | <0.0514 | <0.0519 | <0.482 | <0.482 | <0.5 |
| Chrysene | 9.1E+03 | 2.1E+03 | <0.00833 | <0.0723 | <0.0715 | <0.14 | <0.0714 | <0.00795 | <0.0704 | <0.144 | <0.0736 | **0.567** | **0.795** | **4.85** | **0.835** | <0.00781 | **0.193 J3** | <0.00814 | <0.0755 | **0.961** | **2.09** |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | <0.0115 | <0.101 | <0.0996 | <0.196 | <0.0996 | <0.0111 | <0.0982 | <0.202 | <0.103 | <0.11 | **0.103** | **0.583** | **0.138** | <0.0109 | <0.0112 | <0.0113 | <0.105 | <0.105 | <0.109 |
| Diethyl phthalate | 1.5E+05 | 6.6E+05 | <0.0138 | <0.12 | <0.118 | <0.233 | <0.118 | <0.0132 | <0.117 | <0.24 | <0.122 | <0.132 | <0.0255 | <0.132 | <0.0242 | <0.013 | <0.0134 | <0.0135 | <0.125 | <0.126 | <0.13 |
| Dimethyl phthalate | NS | NS | <0.0888 | <0.771 | <0.762 | <1.5 | <0.762 | <0.0848 | <0.751 | <1.54 | <0.784 | <0.845 | <0.163 | <0.845 | <0.155 | <0.0833 | <0.0859 | <0.0868 | <0.806 | <0.807 | <0.837 |
| Di-n-butyl phthalate | NS | NS | <0.0143 | <0.124 | <0.123 | <0.242 | <0.123 | <0.0137 | <0.121 | <0.249 | <0.127 | <0.136 | <0.0264 | <0.136 | <0.0251 | <0.0135 | <0.0139 | <0.014 | <0.13 | <0.13 | <0.135 |
| Di-n-octyl phthalate | NS | NS | <0.0283 | <0.246 | <0.243 | <0.477 | <0.243 | <0.027 | <0.238 | <0.491 | <0.25 | <0.269 | <0.0521 | <0.269 | <0.0496 | <0.0266 | <0.0274 | <0.0277 | <0.257 | <0.257 | <0.267 |
| Fluoranthene | 6.7E+03 | 3.0E+04 | <0.00756 | <0.0656 | <0.0649 | <0.127 | <0.0649 | <0.00721 | <0.0639 | <0.131 | <0.0668 | <0.0718 | **0.466** | **3.03** | **0.588** | <0.00709 | **0.119** | <0.00738 | <0.0686 | **0.804** | **1.22** |
| Fluorene | 6.7E+03 | 3.0E+04 | <0.00682 | <0.0592 | <0.0585 | <0.115 | <0.0585 | <0.00651 | <0.0577 | <0.118 | <0.0602 | <0.0648 | <0.0125 | **0.433** | <0.0119 | <0.0064 | <0.0066 | <0.00666 | <0.0619 | <0.0619 | <0.0642 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | <0.0141 | <0.122 | <0.121 | <0.236 | <0.121 | <0.0134 | <0.119 | <0.245 | <0.124 | <0.134 | <0.0256 | <0.134 | <0.0247 | <0.0132 | <0.0136 | <0.0136 | <0.126 | <0.126 | <0.133 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | <0.0148 | <0.128 | <0.127 | <0.25 | <0.127 | <0.0142 | <0.126 | <0.258 | <0.131 | <0.141 | <0.0273 | <0.141 | <0.026 | <0.0139 | <0.0144 | <0.0145 | <0.135 | <0.135 | <0.14 |
| Hexachlorocyclopentadiene | NS | NS | <0.022 | <0.191 | <0.189 | <0.371 | <0.189 | <0.021 | <0.186 | <0.382 | <0.194 | <0.209 | <0.0405 | <0.209 | <0.0386 | <0.0207 | <0.0213 JJ6 | <0.0215 | <0.2 | <0.2 | <0.207 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | <0.0165 | <0.143 | <0.141 | <0.278 | <0.141 | <0.0157 | <0.139 | <0.286 | <0.146 | <0.157 | <0.0303 | <0.157 | <0.0289 | <0.0155 | <0.0159 | <0.0161 | <0.149 | <0.15 | <0.155 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | <0.0118 | <0.103 | <0.102 | <0.199 | <0.102 | <0.0113 | <0.1 | <0.205 | <0.105 | <0.113 | **0.343** | **1.78** | **0.376** | <0.0111 | **0.129 J3** | <0.0116 | <0.107 | **0.471** | **1.27** |
| Isophorone | NS | NS | <0.0128 | <0.111 | <0.11 | <0.216 | <0.11 | <0.0122 | <0.108 | <0.223 | <0.113 | <0.122 | <0.0236 | <0.122 | <0.0225 | <0.012 | <0.0124 | <0.0125 | <0.116 | <0.117 | <0.121 |
| Naphthalene | 4.0E+02 | 1.7E+01 | <0.0105 | <0.0912 | <0.0902 | <0.177 | <0.0902 | <0.01 | <0.0889 | <0.182 | <0.0929 | <0.1 | <0.0193 | <0.1 | <0.0184 | <0.00987 | <0.0102 | <0.0103 | <0.0954 | <0.0955 | <0.0991 |
| Nitrobenzene | NS | NS | <0.0146 | <0.127 | <0.125 | <0.246 | <0.125 | <0.0139 | <0.123 | <0.253 | <0.128 | <0.139 | <0.0268 | <0.139 | <0.0256 | <0.0137 | <0.0141 | <0.0143 | <0.132 | <0.133 | <0.137 |
| n-Nitrosodimethylamine | NS | NS | <0.0622 | <0.539 | <0.533 | <1.05 | <0.533 | <0.0593 | <0.525 | <1.08 | <0.549 | <0.591 | <0.114 | <0.591 | <0.109 | <0.0583 | <0.0601 | <0.0607 | <0.564 | <0.564 | <0.585 |
| n-Nitroso-di-n-propylamine | NS | NS | <0.014 | <0.121 | <0.12 | <0.235 | <0.12 | <0.0133 | <0.118 | <0.242 | <0.123 | <0.133 | <0.0257 | <0.133 | <0.0245 | <0.0131 | <0.0135 | <0.0136 | <0.127 | <0.127 | <0.132 |
| n-Nitrosodiphenylamine | NS | NS | <0.0317 | <0.275 | <0.272 | <0.535 | <0.272 | <0.0303 | <0.268 | <0.55 | <0.28 | <0.302 | <0.0585 | <0.302 | <0.0555 | <0.0297 | <0.0307 | <0.031 | <0.288 | <0.288 | <0.299 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | <0.0113 | <0.0878 | <0.0867 | <0.18 | <0.0867 | <0.0108 | <0.0853 | <0.185 | <0.0896 | <0.107 | <0.0207 | <0.107 | <0.0197 | <0.0106 | <0.0109 | <0.011 | <0.103 | <0.103 | <0.106 |
| Phenanthrene | NS | NS | <0.00832 | <0.0721 | <0.0713 | <0.14 | <0.0713 | <0.00793 | <0.0703 | <0.144 | <0.0734 | <0.0791 | **0.133** | **1.15** | **0.127** | <0.0078 | **0.0555** | <0.00813 | <0.0754 | <0.0755 | <0.0783 |
| Phenol | 6.0E+04 | 3.5E+05 | <0.0159 | <0.146 | <0.145 | <0.284 | <0.145 | <0.0161 | <0.143 | <0.293 | <0.149 | <0.16 | <0.031 | <0.16 | <0.0295 | <0.0158 | <0.0163 | <0.0165 | <0.153 | <0.153 | <0.159 |
| Pyrene | 5.0E+03 | 2.3E+04 | <0.00815 | <0.0701 | <0.0699 | <0.138 | <0.0699 | <0.00778 | <0.0689 | <0.142 | <0.072 | **0.522** | **0.886** | **4.37** | **0.857** | <0.00765 | **0.153 J3** | <0.00797 | <0.0739 | **0.884** | **1.49** |

Notes:

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

--- = Not used.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RWQCB = Regional Water Quality Control Board.

SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.

R = Data rejected for laboratory quality assurance/quality control reasons.

T8 = Sample received past/too close to holding time expiration.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure, January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

**Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2018 RWQCB | 2018 RWQCB | G-E1-1 | G-E2-1 | G-E2-1 | G-E2-1 | G-E3-1 | G-E3-1 | G-E3-1 | G-F1-1 | G-F1-1 | G-F1-1 | G-F2-1 | G-F2-1 | G-F2-1 | G-F3-1 | G-F3-1 | G-F3-1 | G-F3-1 | G-F3-1 | G-G1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 4.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 1.0 | 2.0 | 3.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/22/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/29/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.6E+02 | 1.1E+02 | <0.564 | <0.012 | <0.0119 | <0.0118 | <2.42 | <0.0125 | <0.025 | <0.0243 | <0.0276 | <0.0276 | <0.0124 | <2.34 | <0.123 | <0.257 | <0.274 | <0.0545 | <0.0139 | <0.0142 | <0.0245 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | <0.527 | <0.0114 | <0.0113 | <0.0112 | <2.29 | <0.0119 | <0.0237 | <0.0231 | <0.0261 | <0.0263 | <0.0116 | <2.22 | <0.116 | <0.243 | <0.26 | <0.0517 | <0.0132 | <0.0135 | <0.0232 |
| 1,3-Dichlorobenzene | NS | NS | <0.536 | <0.0116 | <0.0116 | <0.0115 | <2.35 | <0.0122 | <0.0243 | <0.0236 | <0.0268 | <0.027 | <0.0121 | <2.28 | <0.119 | <0.249 | <0.266 | <0.0529 | <0.0135 | <0.0138 | <0.0238 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | <0.529 | <0.0114 | <0.0114 | <0.0113 | <2.3 | <0.0119 | <0.0238 | <0.0232 | <0.0263 | <0.0264 | <0.0118 | <2.23 | <0.117 | <0.244 | <0.261 | <0.052 | <0.0133 | <0.0135 | <0.0233 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | <0.768 | <0.0166 | <0.0165 | <0.0164 | <3.35 | <0.0174 | <0.0346 | <0.0337 | <0.0382 | <0.0385 | <0.0172 | <3.24 | <0.17 | <0.356 | <0.38 J3J6 | <0.0754 | <0.0193 | <0.0196 | <0.0339 |
| 2,4,6-Tribromophenol | NS | NS | 0.33 J7 | 0.324 | 0.371 | 0.37 | 0.381 J7 | 0.361 | 0.452 | 0.418 | 0.429 | 0.418 | 0.371 | J7 | 0.253 | 0.832 J7 | 0.444 J7 | 0.344 | 0.235 | 0.395 | 0.453 |
| 2,4,6-Trichlorophenol | 3.6E+02 | 4.7E+01 | <0.57 | <0.0123 | <0.0123 | <0.0122 | <2.49 | <0.0129 | <0.0257 | <0.025 | <0.0284 | <0.0286 | <0.0128 | <2.41 | <0.126 | <0.264 | <0.282 | <0.056 | <0.0143 | <0.0146 | <0.0252 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | <0.517 | <0.0112 | <0.0111 | <0.011 | <2.26 | <0.0117 | <0.0233 | <0.0227 | <0.0257 | <0.0258 | <0.0116 | <2.19 | <0.114 | <0.24 | <0.256 J3 | <0.0508 | <0.013 | <0.0132 | <0.0228 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | <0.464 | <0.01 | <0.00997 | <0.00981 | <2.02 | <0.0105 | <0.0209 | <0.0204 | <0.0231 | <0.0232 | <0.0104 | <1.96 | <0.102 | <0.215 | <0.229 J5 | <0.0456 | <0.0116 | <0.0119 | <0.0205 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | <4.16 | <0.0896 | <0.0893 | <0.0887 | <18.1 | <0.0939 | <0.187 | <0.183 | <0.207 | <0.208 | <0.093 | <17.6 | <0.916 | <1.93 | <2.06 J6 | <0.407 | <0.104 | <0.106 | <0.184 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | <0.509 | <0.011 | <0.0109 | <0.0109 | <2.22 | <0.0115 | <0.0229 | <0.0224 | <0.0253 | <0.0255 | <0.0114 | <2.15 | <0.112 | <0.236 | <0.252 | <0.0501 | <0.0128 | <0.013 | <0.0225 |
| 2,6-Dinitrotoluene | NS | NS | <0.581 | <0.0125 | <0.0125 | <0.0124 | <2.53 | <0.0131 | <0.0262 | <0.0255 | <0.0288 | <0.0291 | <0.013 | <2.46 | <0.128 | <0.269 | <0.287 | <0.0571 | <0.0146 | <0.0149 | <0.0256 |
| 2-Chloronaphthalene | NS | NS | <0.312 | <0.00673 | <0.00671 | <0.00656 | <1.36 | <0.00705 | <0.014 | <0.0137 | <0.0155 | <0.0156 | <0.00699 | <1.33 | <0.0689 | <0.144 | <0.154 | <0.0307 | <0.00783 | <0.00798 | <0.0136 |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | <0.586 | <0.0127 | <0.0126 | <0.0125 | <2.56 | <0.0133 | <0.0264 | <0.0257 | <0.0292 | <0.0294 | <0.0131 | <2.48 | <0.13 | <0.272 | <0.29 | <0.0576 | <0.0147 | <0.015 | <0.0259 |
| 2-Fluorobiphenyl | NS | NS | 0.222 J7 | 0.134 | 0.181 | 0.18 | 0.202 J7 | 0.146 | 0.209 | 0.197 | 0.209 | 0.211 | 0.179 | 0.3 J7 | 0.204 | 0.336 J7 | 0.312 J7 | 0.143 | 0.105 | 0.171 | 0.215 |
| 2-Fluorophenol | NS | NS | 0.522 J7 | 0.265 | 0.4 | 0.4 | 0.393 J7 | 0.271 | 0.465 | 0.441 | 0.456 | 0.462 | 0.342 | J7 | 0.389 | J7 | 0.522 J7 | 0.284 | 0.226 | 0.309 | 0.449 |
| 2-Nitrophenol | NS | NS | <0.634 | <0.0137 | <0.0136 | <0.0135 | <2.77 | <0.0143 | <0.0286 | <0.0279 | <0.0316 | <0.0316 | <0.0142 | <2.68 | <0.14 | <0.294 | <0.314 J5 | <0.0623 | <0.0159 | <0.0162 | <0.028 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | <0.656 | <0.0141 | <0.0141 | <0.014 | <2.86 | <0.0148 | <0.0295 | <0.0288 | <0.0326 | <0.0329 | <0.0147 | <2.77 | <0.145 | <0.304 | <0.324 | <0.0644 | <0.0165 | <0.0168 | <0.0289 |
| 4,6-Dinitro-2-methylphenol | NS | NS | <4.03 | <0.0868 | <0.0865 | <0.086 | <17.6 | <0.091 | <0.181 | <0.177 | <0.2 | <0.202 | <0.0902 | <17 | <0.889 | <1.86 | <1.99 | <0.395 | <0.101 | <0.103 | <0.178 |
| 4-Bromophenyl-phenylether | NS | NS | <0.624 | <0.0135 | <0.0134 | <0.0133 | <2.72 | <0.0141 | <0.0281 | <0.0274 | <0.031 | <0.0312 | <0.014 | <2.64 | <0.138 | <0.288 | <0.308 | <0.0613 | <0.0157 | <0.016 | <0.0275 |
| 4-Chloro-3-methylphenol | NS | NS | <0.576 | <0.0124 | <0.0124 | <0.0123 | <2.51 | <0.013 | <0.0259 | <0.0253 | <0.0286 | <0.0288 | <0.0129 | <2.43 | <0.127 | <0.267 | <0.285 | <0.0566 | <0.0145 | <0.0147 | <0.0254 |
| 4-Chlorophenyl-phenylether | NS | NS | <0.616 | <0.0133 | <0.0133 | <0.0132 | <2.7 | <0.014 | <0.0279 | <0.0272 | <0.0306 | <0.031 | <0.0138 | <2.61 | <0.137 | <0.286 | <0.306 | <0.0608 | <0.0155 | <0.0159 | <0.0273 |
| 4-Nitrophenol | NS | NS | <0.554 | <0.012 | <0.0119 | <0.0116 | <2.42 | <0.0125 | <0.025 | <0.0243 | <0.0276 | <0.0278 | <0.0124 | <2.34 | <0.123 | <0.257 | <0.274 | <0.0545 | <0.0139 | <0.0142 | <0.0245 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | <0.288 | <0.0062 | <0.00616 | <0.00614 | <1.26 | <0.00649 | <0.013 | <0.0126 | <0.0143 | <0.0144 | 0.0688 | <1.22 | <0.0635 | <0.133 | <0.142 | <0.0282 | <0.00722 | <0.00735 | 0.0937 |
| Acenaphthylene | NS | NS | <0.249 | <0.00539 | <0.00536 | <0.00534 | <1.09 | <0.00565 | <0.0113 | <0.011 | <0.0124 | <0.0125 | 0.0738 | <1.06 | <0.0552 | <0.116 | <0.124 | <0.0245 | <0.00628 | <0.0064 | 0.249 |
| Anthracene | 5.0E+04 | 2.3E+05 | <0.317 | <0.00682 | <0.0068 | <0.00675 | <1.38 | <0.00715 | <0.0143 | <0.0139 | <0.0158 | <0.0159 | 0.195 | <1.34 | <0.0699 | <0.147 | <0.157 | <0.0311 | <0.00794 | <0.00809 | 0.488 |
| Benzidine | NS | NS | <3.34 | <0.072 | <0.0716 | <0.0713 | <14.5 | <0.0754 | <0.15 | <0.146 | <0.166 | <0.167 J3J6 | <0.0747 | <14.1 | <0.737 | <1.54 | <1.65 J5 | <0.328 | <0.0838 | <0.0854 | <0.147 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | <0.312 | <0.00675 | <0.00673 | <0.00668 | <1.36 | <0.00707 | 0.103 | 0.118 | 0.111 | 0.188 | 0.617 | 14.5 | 7.4 | 1.73 | <0.154 | <0.0307 | <0.00786 | <0.00801 | 2.81 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | <0.329 | <0.00712 | <0.0571 | <0.00705 | <1.44 | <0.00748 | 0.119 | 0.198 | 0.137 | 0.211 | 0.731 | 26 | 10.8 | 2.19 | <0.163 | <0.0324 | <0.00829 | <0.00844 | 2.86 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | <0.332 | <0.00714 | <0.00712 | <0.00707 | <1.44 | <0.00748 | 0.196 | 0.249 | 0.239 | 0.304 | 1.03 | 25.9 | 14.1 | 4.35 | <0.169 | <0.0326 | <0.00832 | <0.00847 | 3.25 |
| Benzo(g,h,i)perylene | NS | NS | <0.325 | <0.007 | <0.00695 | <0.00693 | <1.42 | <0.00734 | 0.0823 | 0.151 | 0.11 | 0.156 | 0.295 | 13.1 | 7.02 | 1.53 | <0.161 | <0.0318 | <0.00815 | <0.00831 | 1.34 |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | <0.316 | <0.00681 | <0.00679 | <0.00674 | <1.37 | <0.00713 | <0.0142 | <0.0138 | <0.0157 | 0.084 | 0.371 | 8.62 | 5.11 | 1.37 | <0.156 | <0.031 | <0.00793 | <0.00808 | 1.1 |
| Benzylbutyl phthalate | NS | NS | <0.554 | <0.012 | <0.0119 | <0.0118 | <2.42 | <0.0125 | <0.025 | <0.0243 | <0.0276 | <0.0276 | <0.0124 | <2.34 | <0.123 | <0.257 | <0.274 | <0.0545 | <0.0139 | <0.0142 | <0.0245 |
| Bis(2-chloroethoxy)methane | NS | NS | <0.533 | <0.0115 | <0.0115 | <0.0114 | <2.33 | <0.012 | <0.024 | <0.0234 | <0.0265 | <0.0267 | <0.0119 | <2.25 | <0.118 | <0.247 | <0.264 | <0.0524 | <0.0134 | <0.0136 | <0.0235 |
| Bis(2-chloroethyl)ether | 8.4E+00 | 4.7E-01 | <0.586 | <0.0127 | <0.0126 | <0.0125 | <2.56 | <0.0133 | <0.0264 | <0.0257 | <0.0292 | <0.0294 | <0.0131 | <2.48 | <0.13 | <0.272 | <0.29 J3J6 | <0.0576 | <0.0147 | <0.015 | <0.0259 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.6E+02 | <2.25 | <0.0485 | <0.0484 | <0.048 | <9.81 | <0.0508 | <0.101 | <0.0988 | <0.112 | <0.113 | <0.0504 | <9.51 | <0.497 | <1.04 | <1.11 J6 | <0.221 | <0.0565 | <0.0576 | <0.0983 |
| Chrysene | 9.1E+03 | 2.1E+03 | <0.353 | <0.00761 | <0.00759 | <0.00754 | <1.53 | <0.00798 | 0.144 | 0.165 | 0.195 | 0.26 | 0.742 | 22.6 | 12.5 | 3.49 | <0.174 | <0.0347 | <0.00886 | <0.00903 | 3.14 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | <0.493 | <0.0106 | <0.0106 | <0.0105 | <2.15 | <0.0111 | <0.0222 | <0.0217 | <0.0245 | <0.0247 | 0.09 | <2.06 | 2.21 | <0.226 | <0.244 | <0.0484 | <0.0124 | <0.0126 | 0.416 |
| Diethyl phthalate | 1.5E+05 | 6.6E+05 | <0.596 | <0.0127 | <0.0126 | <0.0125 | <2.56 | <0.0133 | <0.0264 | <0.0257 | <0.0292 | <0.0294 | <0.0131 | <2.48 | <0.13 | <0.272 | <0.29 | <0.0576 | <0.0147 | <0.015 | <0.0259 |
| Dimethyl phthalate | NS | NS | <3.78 | <0.0812 | <0.0809 | <0.0804 | <16.4 | <0.0851 | <0.169 | <0.165 | <0.187 | <0.188 | <0.0843 | <15.9 | <0.832 | <1.74 | <1.86 | <0.37 | <0.0945 | <0.0963 | <0.166 |
| Di-n-butyl phthalate | NS | NS | <0.608 | <0.0131 | <0.0131 | <0.013 | <2.65 | <0.0137 | <0.0274 | <0.0267 | <0.0302 | <0.0304 | <0.0136 | <2.57 | <0.134 | <0.281 | <0.301 | <0.0597 | <0.0153 | <0.0156 | <0.0268 |
| Di-n-octyl phthalate | NS | NS | <1.2 | <0.0258 | <0.0256 | <0.0256 | <5.23 | <0.0271 | <0.054 | <0.0527 | <0.0597 | <0.0601 | <0.0268 | <5.07 | <0.265 | <0.556 | <0.589 | <0.118 | <0.0301 | <0.0307 | <0.0529 |
| Fluoranthene | 9.7E+03 | 3.0E+04 | <0.321 | <0.00691 | <0.00689 | 0.0481 | <1.4 | <0.00724 | 0.244 | 0.133 | 0.131 | 0.219 | 1.07 | 14.9 | 5.51 | 1.26 | <0.158 | <0.0315 | <0.00805 | <0.0082 | 5.25 |
| Fluorene | 8.7E+03 | 3.0E+04 | <0.289 | <0.00623 | <0.00621 | <0.00617 | <1.26 | <0.00653 | <0.013 | <0.0126 | <0.0143 | <0.0144 | 0.158 | <1.22 | <0.0639 | <0.133 | <0.142 | <0.0284 | <0.00726 | <0.00739 | 0.153 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | <5.597 | <0.0129 | <0.0128 | <0.0126 | <2.6 | <0.0135 | <0.0269 | <0.0262 | <0.0297 | <0.0298 | <0.0134 | <2.52 | <0.132 | <0.277 | <0.295 | <0.0587 | <0.015 | <0.0153 | <0.0264 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | <0.628 | <0.0136 | <0.0135 | <0.0134 | <2.74 | <0.0142 | <0.0283 | <0.0276 | <0.0313 | <0.0315 | <0.0141 | <2.66 | <0.139 | <0.291 | <0.311 | <0.0618 | <0.0158 | <0.0161 | <0.0278 |
| Hexachlorocyclopentadiene | NS | NS | <0.933 | <0.0201 | <0.0201 | <0.0199 | <4.07 | <0.0211 | <0.042 | <0.041 | <0.0464 | <0.0467 J6 | <0.0208 | <3.94 | <0.206 | <0.432 | <0.461 J6 | <0.0917 | <0.0234 | <0.0238 | <0.0412 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | <0.668 | <0.0151 | <0.015 | <0.0149 | <3.05 | <0.0158 | <0.0315 | <0.0307 | <0.0347 | <0.035 | <0.0156 | <2.95 | <0.154 | <0.323 | <0.345 J5 | <0.0686 | <0.0175 | <0.0179 | <0.0308 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | <0.502 | <0.0108 | <0.0108 | <0.0107 | <2.19 | <0.0113 | 0.0978 | 0.153 | 0.107 | 0.168 | 0.336 | 13 | 5.76 | 1.48 | <0.248 | <0.0493 | <0.0126 | <0.0128 | 1.6 |
| Isophorone | NS | NS | <0.544 | <0.0117 | <0.0117 | <0.0116 | <2.37 | <0.0123 | <0.0245 | <0.0238 | <0.0271 | <0.0272 | <0.0122 | <2.3 | <0.12 | <0.252 | <0.269 J5 | <0.0534 | <0.0137 | <0.0139 | <0.024 |
| Naphthalene | 4.0E+02 | 1.7E+01 | <0.446 | <0.00962 | <0.00959 | <0.00952 | <1.94 | <0.0101 | <0.0201 | <0.0195 | <0.0221 | <0.0223 | 0.0769 | <1.88 | <0.0985 | <0.205 | <0.22 | <0.0436 | <0.0112 | <0.0114 | <0.0196 |
| Nitrobenzene | NS | NS | <0.618 | <0.0133 | <0.0133 | <0.0132 | <2.7 | <0.014 | <0.0279 | <0.0272 | <0.0308 | <0.031 | <0.0138 | <2.61 | <0.137 | <0.286 | <0.306 | <0.0608 | <0.0155 | <0.0158 | <0.0273 |
| n-Nitrosodimethylamine | NS | NS | <2.63 | <0.0566 | <0.0566 | <0.0562 | <11.5 | <0.0595 | <0.119 | <0.116 | <0.131 | <0.132 | <0.059 | <11.1 | <0.582 | <1.22 | <1.3 J6 | <0.259 | <0.0661 | <0.0674 | <0.116 |
| n-Nitrosodi-n-propylamine | NS | NS | <0.592 | <0.0128 | <0.0127 | <0.0126 | <2.58 | <0.0134 | <0.0267 | <0.026 | <0.0294 | <0.0296 | <0.0133 | <2.5 | <0.131 | <0.274 | <0.293 J3J5J6 | <0.0581 | <0.0149 | <0.0151 | <0.0261 |
| n-Nitrosodiphenylamine | NS | NS | <1.34 | <0.029 | <0.0289 | <0.0287 | <5.88 | <0.0304 | <0.0605 | <0.059 | <0.0669 | <0.0673 | <0.0301 | <5.68 | <0.297 | <0.622 | <0.664 | <0.132 | <0.0337 | <0.0344 | <0.0593 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | <0.478 | <0.0103 | <0.0103 | <0.0102 | <2.08 | <0.0108 | <0.0215 | <0.021 | <0.0237 | <0.0238 | <0.0107 | <2.02 | <0.106 | <0.221 | <0.236 | <0.0466 | <0.012 | <0.0123 | <0.0211 |
| Phenanthrene | NS | NS | <0.353 | <0.0076 | 0.0432 | <0.00753 | <1.53 | <0.00798 | 0.162 | <0.0154 | <0.0175 | <0.0176 | 0.075 | <1.49 | 1.27 | <0.163 | <0.174 | <0.0347 | <0.00885 | <0.00903 | 2.39 |
| Phenol | 6.0E+04 | 3.5E+05 | <0.714 | <0.0154 | <0.0154 | <0.0153 | <3.12 | <0.0161 | <0.0322 | <0.0314 | <0.0355 | <0.0358 | <0.016 | <3.02 | <0.158 | <0.331 | <0.353 | <0.0702 | <0.0179 | <0.0183 | <0.0315 |
| Pyrene | 5.0E+03 | 2.3E+04 | <0.345 | <0.00745 | 0.0487 J | 0.0451 J | <1.51 | <0.00781 | 0.228 | 0.139 | 0.146 | 0.235 | 1.09 | 18 | 8.79 | 1.85 J+ | <0.171 J5 | <0.0339 | <0.00866 | <0.00884 | 4.39 |

Notes:
Yellow shaded concentrations exceed the Construction Worker ESLs.
Boxed concentrations exceed the Commercial/Industrial ESLs.
— = Not rated.
< = Not detected at or above method detection limit.
Bold = Detected concentration.
ESL = Environmental Screening Level.
ft bgs = Feet below ground surface.
mg/kg = Milligrams per kilogram.
NS = No standard established.
RWQCB = Regional Water Quality Control Board.
SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.
J = The identification of the analyte is acceptable; the report value is an estimate.
J3 = The associated batch quality control was outside the established quality control for precision.
J4 = The associated batch quality control was outside the established quality control for accuracy.
J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.
R = Data rejected for laboratory quality assurance/quality control reasons.
T8 = Sample received past/too close to holding time expiration.
[1]San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure, January 2019.
[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-01-1 | G-01-1 | G-02-1 | G-03-1 | G-03-1 | G-03-1 | G-03-1 | G-03-1 | G-04-1 | G-04-1 | G-04-1 | G-H2-1 | G-H2-1 | G-H3-1 | G-H3-1 | G-H3-1 | G-H3-1 | G-H3-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 | 3.0 | 4.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.6E+02 | 1.1E+02 | <0.0115 | <0.154 | <0.026 | <0.0138 | <0.144 | <0.0221 | <0.0128 | <0.0128 | <0.0125 | <0.0135 | <0.0124 | <0.242 | <0.123 | <0.0121 | <0.0246 | <0.114 | <0.0231 | <0.132 | <0.0128 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | <0.0109 | <0.146 | <0.0245 | <0.0131 | <0.137 | <0.021 | <0.0121 | <0.0122 | <0.0118 | <0.0128 | <0.0117 | <0.229 | <0.117 | <0.0115 | <0.0233 | <0.108 | <0.0219 | <0.125 | <0.0122 |
| 1,3-Dichlorobenzene | NS | NS | <0.0112 | <0.15 | <0.0253 | <0.0134 | <0.14 | <0.0215 | <0.0124 | <0.0125 | <0.0121 | <0.0131 | <0.012 | <0.235 | <0.12 | <0.0118 | <0.0239 | <0.111 | <0.0225 | <0.128 | <0.0125 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | <0.011 | <0.147 | <0.0248 | <0.0131 | <0.138 | <0.0211 | <0.0122 | <0.0122 | <0.0119 | <0.0129 | <0.0118 | <0.23 | <0.118 | <0.0116 | <0.0234 | <0.109 | <0.022 | <0.126 | <0.0122 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | <0.0159 | <0.214 | <0.036 | <0.0191 | <0.2 | <0.0306 | <0.0177 | <0.0178 | <0.0173 | <0.0187 | <0.0171 | <0.335 | <0.171 | <0.0166 | <0.034 | <0.158 | <0.032 | <0.182 | <0.0178 |
| 2,4,6-Tribromophenol | NS | NS | 0.426 | 0.361 | 0.477 | 0.444 | 0.314 | 0.425 | 0.25 | 0.348 | 0.11 | 0.373 | 0.381 | 0.39 J7 | 0.365 | 0.459 | 0.517 | 0.271 | 0.26 | 0.232 | 0.261 |
| 2,4,6-Trichlorophenol | 3.5E+02 | 4.7E+01 | <0.0118 | <0.158 | <0.0268 | <0.0142 | <0.148 | <0.0228 | <0.0131 | <0.0132 | <0.0128 | <0.0139 | <0.0127 | <0.249 | <0.127 | <0.0125 | <0.0253 | <0.117 | <0.0238 | <0.135 | <0.0132 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | <0.0107 | <0.144 | <0.0243 | <0.0128 | <0.135 | <0.0206 | <0.0119 | <0.012 | <0.0116 | <0.0126 | <0.0115 | <0.226 | <0.115 | <0.0113 | <0.0229 | <0.106 | <0.0216 | <0.123 | <0.012 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | <0.00962 | <0.129 | <0.0218 | <0.0115 | <0.121 | <0.0185 | <0.0107 | <0.0107 | <0.0104 | <0.0113 | <0.0103 | <0.203 | <0.103 | <0.0102 | <0.0206 | <0.0955 | <0.0193 | <0.11 | <0.0107 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | <0.0861 | <1.16 | <0.195 | <0.103 | <1.08 | <0.166 | <0.0956 | <0.0962 | <0.0934 | <0.101 | <0.0926 | <1.82 | <0.925 | <0.0909 | <0.184 | <0.855 | <0.173 | <0.988 | <0.0962 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | <0.0106 | <0.142 | <0.0239 | <0.0127 | <0.133 | <0.0203 | <0.0117 | <0.0118 | <0.0114 | <0.0124 | <0.0114 | <0.222 | <0.113 | <0.0111 | <0.0226 | <0.105 | <0.0212 | <0.121 | <0.0118 |
| 2,6-Dinitrotoluene | NS | NS | <0.012 | <0.162 | <0.0273 | <0.0144 | <0.151 | <0.0232 | <0.0134 | <0.0135 | <0.0131 | <0.0142 | <0.013 | <0.254 | <0.129 | <0.0127 | <0.0258 | <0.12 | <0.0242 | <0.138 | <0.0135 |
| 2-Chloronaphthalene | NS | NS | <0.00647 | <0.0868 | <0.0146 | <0.00775 | <0.0813 | <0.0124 | <0.00718 | <0.00723 | <0.00701 | <0.0076 | <0.00694 | <0.136 | <0.0694 | <0.00683 | <0.0138 | <0.0642 | <0.013 | <0.0741 | <0.00722 |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | <0.0123 | <0.163 | <0.0275 | <0.0146 | <0.153 | <0.0234 | <0.0135 | <0.0136 | <0.0132 | <0.0143 | <0.0131 | <0.256 | <0.131 | <0.0128 | <0.029 | <0.121 | <0.0245 | <0.139 | <0.0136 |
| 2-Fluorobiphenyl | NS | NS | 0.198 | 0.193 | 0.219 | 0.189 | 0.22 | 0.208 | 0.181 | 0.19 | 0.0596 | 0.137 | 0.16 | 0.231 J7 | 0.176 | 0.229 | 0.216 | 0.185 | 0.212 | 0.164 | 0.173 |
| 2-Fluorophenol | NS | NS | 0.379 | 0.366 | 0.491 | 0.438 | 0.412 | 0.483 | 0.382 | 0.378 | 0.137 | 0.27 | 0.363 | 0.474 J7 | 0.418 | 0.519 | 0.418 | 0.393 | 0.414 | 0.344 | 0.36 |
| 2-Nitrophenol | NS | NS | <0.0132 | <0.177 | <0.0298 | <0.0156 | <0.165 | <0.0253 | <0.0146 | <0.0147 | <0.0143 | <0.0155 | <0.0142 | <0.277 | <0.141 | <0.0139 | <0.0281 | <0.131 | <0.0265 | <0.151 | <0.0147 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | <0.0136 | <0.183 | <0.0306 | <0.0163 | <0.171 | <0.0262 | <0.0151 | <0.0152 | <0.0147 | <0.016 | <0.0146 | <0.286 | <0.146 | <0.0144 | <0.0291 | <0.135 | <0.0273 | <0.156 | <0.0152 |
| 4,6-Dinitro-2-methylphenol | NS | NS | <0.0835 | <1.12 | <0.189 | <0.1 | <1.05 | <0.161 | <0.0928 | <0.0933 | <0.0905 | <0.0981 | <0.0898 | <1.76 | <0.896 | <0.0881 | <0.178 | <0.828 | <0.168 | <0.958 | <0.0932 |
| 4-Bromophenyl-phenylether | NS | NS | <0.0129 | <0.174 | <0.0293 | <0.0155 | <0.163 | <0.0249 | <0.0144 | <0.0145 | <0.014 | <0.0152 | <0.0139 | <0.272 | <0.139 | <0.0137 | <0.0278 | <0.128 | <0.026 | <0.148 | <0.0144 |
| 4-Chloro-3-methylphenol | NS | NS | <0.0119 | <0.16 | <0.027 | <0.0143 | <0.15 | <0.023 | <0.0133 | <0.0133 | <0.0129 | <0.014 | <0.0128 | <0.251 | <0.128 | <0.0126 | <0.0255 | <0.118 | <0.024 | <0.137 | <0.0133 |
| 4-Chlorophenyl-phenylether | NS | NS | <0.0128 | <0.172 | <0.029 | <0.0154 | <0.161 | <0.0247 | <0.0142 | <0.0143 | <0.0139 | <0.0151 | <0.0138 | <0.27 | <0.138 | <0.0135 | <0.0274 | <0.127 | <0.0258 | <0.147 | <0.0143 |
| 4-Nitrophenol | NS | NS | <0.0115 | <0.154 | <0.026 | <0.0138 | <0.144 | <0.0221 | <0.0128 | <0.0128 | <0.0125 | <0.0135 | <0.0124 | <0.242 | <0.123 | <0.0121 | <0.0246 | <0.114 | <0.0231 | <0.132 | <0.0128 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | 0.0833 | <0.06 | <0.0135 | <0.00714 | <0.0749 | <0.0115 | <0.00661 | <0.00666 | <0.00646 | <0.007 | <0.00641 | <0.126 | <0.064 | <0.00629 | <0.0128 | <0.0591 | <0.012 | <0.0682 | <0.00665 |
| Acenaphthylene | NS | NS | 0.0633 | <0.0896 | <0.0167 | <0.00821 | <0.0851 | <0.00998 | <0.00578 | <0.00579 | <0.00562 | <0.00609 | <0.00556 | <0.109 | <0.0557 | <0.00547 | <0.0111 | <0.0515 | <0.0104 | <0.0594 | <0.00579 |
| Anthracene | 5.0E+04 | 2.3E+05 | 0.385 | <0.086 | <0.0149 | <0.00756 | <0.0824 | <0.0127 | <0.00725 | <0.00733 | <0.00711 | <0.00771 | <0.00705 | <0.139 | <0.0704 | <0.00692 | <0.0141 | <0.0651 | <0.0132 | <0.0751 | 0.0588 |
| Benzidine | NS | NS | <0.0992 | <0.929 | <0.156 | <0.0829 | <0.87 | <0.133 | <0.0768 | <0.0773 | <0.075 | <0.0813 | <0.0745 | <1.46 | <0.743 | <0.0731 | <0.148 | <0.687 | <0.139 | <0.793 | <0.0773 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | 1.17 | <0.0871 | 0.333 | <0.00778 | <0.0815 | <0.0124 | <0.0072 | <0.00725 | <0.00704 | 0.133 | <0.00698 | <0.136 | <0.0697 | <0.00685 | <0.0138 | <0.0644 | 0.128 | <0.0745 | 0.267 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | 1.15 | <0.0919 | 0.448 | <0.0082 | <0.086 | 0.0782 | <0.0076 | <0.00765 | <0.00742 | 0.129 | <0.00736 | <0.144 | 0.484 | <0.00723 | <0.0146 | 0.404 | 0.158 | <0.0784 | 0.29 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | 1.3 | <0.0922 | 0.431 | <0.00823 | <0.0863 | 0.0866 | <0.00762 | <0.00767 | <0.00744 | 0.161 | <0.00739 | <0.144 | 0.668 | <0.00725 | <0.0146 | 0.542 | 0.203 | <0.0786 | 0.343 |
| Benzo(g,h,i)perylene | NS | NS | 0.655 | <0.0804 | 0.318 | <0.00807 | <0.0846 | <0.013 | <0.00747 | <0.00752 | <0.0073 | 0.0824 | <0.00724 | <0.142 | <0.0723 | <0.00711 | <0.0144 | <0.0668 | 0.147 | <0.0771 | 0.174 |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | 0.484 | <0.0879 | 0.209 | <0.00784 | <0.0822 | <0.0125 | <0.00726 | <0.00731 | <0.0071 | 0.0631 | <0.00704 | <0.137 | <0.0703 | <0.00691 | <0.0139 | <0.065 | 0.064 | <0.075 | 0.122 |
| Benzylbutyl phthalate | NS | NS | <0.0115 | <0.154 | <0.026 | <0.0138 | <0.144 | <0.0221 | <0.0128 | <0.0128 | <0.0125 | <0.0135 | <0.0124 | <0.242 | <0.123 | <0.0121 | <0.0246 | <0.114 | <0.0231 | <0.132 | <0.0128 |
| Bis(2-chloroethoxy)methane | NS | NS | <0.0111 | <0.148 | <0.025 | <0.0132 | <0.139 | <0.0213 | <0.0123 | <0.0124 | <0.012 | <0.013 | <0.0119 | <0.233 | <0.119 | <0.0117 | <0.0236 | <0.11 | <0.0222 | <0.127 | <0.0123 |
| Bis(2-chloroethyl)ether | 6.4E+00 | 4.7E-01 | <0.0122 | <0.163 | <0.0275 | <0.0146 | <0.153 | <0.0234 | <0.0135 | <0.0136 | <0.0132 | <0.0143 | <0.0131 | <0.256 J4 | <0.131 J4 | <0.0128 | <0.026 | <0.121 | <0.0245 | <0.139 | <0.0136 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.6E+02 | <0.0467 | <0.626 | <0.106 | <0.0559 | <0.586 | <0.0866 | <0.0518 | <0.0521 | <0.0506 | <0.0548 | <0.0502 | <0.983 | <0.501 | <0.0493 | <0.0997 | <0.463 | <0.0936 | <0.534 | <0.0521 |
| Chrysene | 9.1E+03 | 2.1E+03 | 1.37 | <0.0983 | 0.573 | <0.00877 | <0.092 | 0.0898 | <0.00812 | <0.00818 | <0.00793 | 0.149 | <0.00787 | <0.154 | <0.0786 | <0.00773 | <0.0156 | <0.0726 | 0.149 | <0.0838 | 0.337 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | 0.155 | <0.157 | 0.0978 | <0.0122 | <0.126 | <0.0197 | <0.0113 | <0.0114 | <0.0111 | <0.012 | <0.011 | <0.215 | <0.11 | <0.0108 | <0.0219 | <0.101 | <0.0206 | <0.117 | 0.0473 |
| Diethyl phthalate | 1.5E+05 | 6.6E+05 | <0.0122 | <0.163 | <0.0275 | <0.0146 | <0.153 | <0.0234 | <0.0135 | <0.0136 | <0.0132 | <0.0143 | <0.0131 | <0.256 | <0.131 | <0.0128 | <0.026 | <0.121 | <0.0245 | <0.139 | <0.0136 |
| Dimethyl phthalate | NS | NS | <0.078 | <1.05 | <0.176 | <0.0935 | <0.981 | <0.15 | <0.0868 | <0.0872 | <0.0848 | <0.0917 | <0.084 | <1.64 | <0.838 | <0.0824 | <0.167 | <0.775 | <0.157 | <0.894 | <0.0871 |
| Di-n-butyl phthalate | NS | NS | <0.0126 | <0.169 | <0.0285 | <0.0151 | <0.158 | <0.0242 | <0.014 | <0.0141 | <0.0137 | <0.0148 | <0.0136 | <0.265 | <0.135 | <0.0133 | <0.0269 | <0.125 | <0.0253 | <0.144 | <0.0141 |
| Di-n-octyl phthalate | NS | NS | <0.0249 | <0.334 | <0.0563 | <0.0298 | <0.313 | <0.0479 | <0.0276 | <0.0278 | <0.027 | <0.0292 | <0.0268 | <0.524 | <0.267 | <0.0263 | <0.0532 | <0.247 | <0.05 | <0.285 | <0.0278 |
| Fluoranthene | 9.7E+03 | 3.0E+04 | 2.66 | <0.0883 | 0.391 | <0.00796 | <0.0835 | 0.186 | 0.042 | <0.00742 | <0.0072 | 0.218 | <0.00715 | <0.14 | <0.0713 | <0.00702 | <0.0142 | <0.0659 | 0.138 | <0.0761 | 0.374 |
| Fluorene | 8.7E+03 | 3.0E+04 | 0.311 | <0.0804 | <0.0135 | <0.00718 | <0.0753 | <0.0115 | <0.00665 | <0.0067 | <0.0065 | <0.00704 | <0.00645 | <0.126 | <0.0643 | <0.00633 | <0.0128 | <0.0595 | <0.012 | <0.0686 | <0.00669 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | <0.0124 | <0.166 | <0.028 | <0.0148 | <0.156 | <0.0238 | <0.0137 | <0.0138 | <0.0134 | <0.0146 | <0.0133 | <0.261 | <0.133 | <0.0131 | <0.0265 | <0.123 | <0.0248 | <0.142 | <0.0136 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | <0.013 | <0.175 | <0.0295 | <0.0156 | <0.164 | <0.0251 | <0.0145 | <0.0146 | <0.0141 | <0.0153 | <0.014 | <0.275 | <0.14 | <0.0138 | <0.0279 | <0.128 | <0.0262 | <0.149 | <0.0146 |
| Hexachlorocyclopentadiene | NS | NS | <0.0193 | <0.26 | <0.0436 | <0.0232 | <0.243 | <0.0372 | <0.0215 | <0.0216 | <0.021 | <0.0227 | <0.0208 | <0.407 | <0.208 | <0.0204 | <0.0413 | <0.192 | <0.0388 | <0.222 | <0.0216 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | <0.0148 | <0.199 | <0.0328 | <0.0174 | <0.185 | <0.0279 | <0.0161 | <0.0162 | <0.0157 | <0.017 | <0.0156 | <0.305 | <0.155 | <0.0153 | <0.031 | <0.144 | <0.0291 | <0.166 | <0.0162 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | 0.215 | <0.14 | 0.369 | <0.0125 | <0.131 | <0.02 | <0.0115 | <0.0116 | <0.0113 | 0.104 | <0.0112 | <0.218 | <0.112 | <0.011 | <0.0222 | <0.103 | 0.136 | <0.119 | 0.174 |
| Isophorone | NS | NS | <0.0113 | <0.151 | <0.0255 | <0.0135 | <0.142 | <0.0217 | <0.0125 | <0.0126 | <0.0122 | <0.0133 | <0.0121 | <0.237 | <0.121 | <0.0119 | <0.0241 | <0.112 | <0.0227 | <0.129 | <0.0126 |
| Naphthalene | 4.0E+02 | 1.7E+01 | 0.216 | <0.124 | <0.0209 | <0.0111 | <0.116 | <0.0178 | <0.0103 | <0.0103 | <0.01 | <0.0109 | <0.00994 | <0.194 | <0.0992 | <0.00976 | <0.0197 | <0.0917 | <0.0166 | <0.106 | <0.0103 |
| Nitrobenzene | NS | NS | <0.0128 | <0.172 | <0.029 | <0.0154 | <0.161 | <0.0247 | <0.0142 | <0.0143 | <0.0139 | <0.0151 | <0.0138 | <0.27 | <0.138 | <0.0135 | <0.0274 | <0.127 | <0.0258 | <0.147 | <0.0143 |
| n-Nitrosodimethylamine | NS | NS | <0.0546 | <0.733 | <0.124 | <0.0654 | <0.686 | <0.105 | <0.0606 | <0.061 | <0.0592 | <0.0642 | <0.0585 | <1.15 | <0.586 | <0.0577 | <0.117 | <0.542 | <0.11 | <0.626 | <0.061 |
| n-Nitroso-n-propylamine | NS | NS | <0.0123 | <0.165 | <0.0278 | <0.0147 | <0.154 | <0.0238 | <0.0136 | <0.0137 | <0.0133 | <0.0144 | <0.0132 | <0.258 | <0.132 | <0.013 | <0.0262 | <0.122 | <0.0247 | <0.141 | <0.0137 |
| n-Nitrosodiphenylamine | NS | NS | <0.0279 | <0.374 | <0.063 | <0.0334 | <0.35 | <0.0538 | <0.0309 | <0.0311 | <0.0302 | <0.0327 | <0.03 | <0.587 | <0.299 | <0.0294 | <0.0595 | <0.277 | <0.056 | <0.319 | <0.0311 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | <0.00891 | <0.133 | <0.0224 | <0.0119 | <0.124 | <0.019 | <0.011 | <0.0111 | <0.0107 | <0.0116 | <0.0107 | <0.208 | <0.106 | <0.0105 | <0.0211 | <0.0983 | <0.0199 | <0.113 | <0.0111 |
| Phenanthrene | NS | NS | 2.55 | <0.0981 | 0.169 | <0.00876 | <0.0918 | 0.176 | <0.00811 | <0.00817 | <0.00792 | 0.121 | <0.00786 | <0.154 | <0.0784 | <0.00772 | <0.0156 | <0.0725 | 0.0856 | <0.0837 | 0.226 |
| Phenol | 3.5E+04 | 3.5E+05 | <0.0148 | <0.199 | <0.0335 | <0.0178 | <0.186 | <0.0285 | <0.0164 | <0.0166 | <0.0161 | <0.0174 | <0.0159 | <0.312 | <0.159 | <0.0156 | <0.0317 | <0.147 | <0.0298 | <0.17 | <0.0165 |
| Pyrene | 5.0E+03 | 2.3E+04 | 2.28 | <0.0862 | 0.44 | <0.00858 | <0.09 | 0.175 | 0.0647 | <0.00801 | <0.00777 | 0.201 J | <0.00771 | <0.151 | 0.453 | <0.00756 | <0.0154 | 0.422 | 0.176 | <0.0821 | 0.448 |

Notes:
Yellow shaded concentrations exceed the Construction Worker ESLs.
Bolded concentrations exceed the Commercial/Industrial ESLs.
--- = Not used.
< = Not detected at or above method detection limit.
**Bold** = Detected concentration.
ESL = Environmental Screening Level.
ft bgs = Feet below ground surface.
mg/kg = Milligrams per kilogram.
NS = No standard established.
RWQCB = Regional Water Quality Control Board.
SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.
J = The identification of the analyte is acceptable; the report value is an estimate.
J3 = The associated batch quality control was outside the established quality control for precision.
J4 = The associated batch quality control was outside the established quality control for accuracy.
J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.
R = Data rejected for laboratory quality assurance/quality control reasons.
TB = Sample received past/too close to holding time expiration.
[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1); Shallow Soil Exposure. January 2019.
[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels. May 2024.

**Table 4. Summary of SVOCs in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2018 RWQCB | 2018 RWQCB | UC-A3-1 | UC-A3-1 | UC-A3-1 | UC-A3-1 | UC-A3-1 | UC-A3-1 | UC-B4-2 | UC-B4-2 | UC-B4-2 | UC-H1-1 | UC-H1-1 | UC-H1-1 | UC-H1-1 | UC-H1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 3.0 | 4.0 | 8.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS - 8270C (mg/kg)** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 2.4E+02 | 1.1E+02 | <0.0225 | <0.114 | <0.117 | <0.111 | <1.24 | <0.024 | <0.0589 | <0.0127 | <0.0113 | <0.0254 | <0.0238 | <0.0141 | <0.0276 | <0.272 |
| 1,2-Dichlorobenzene | 7.8E+03 | 9.4E+03 | <0.0213 | <0.108 | <0.111 | <0.105 | <1.17 | <0.0227 | <0.0541 | <0.0121 | <0.0107 | <0.024 | <0.0226 | <0.0134 | <0.0262 | <0.258 |
| 1,3-Dichlorobenzene | NS | NS | <0.0215 | <0.111 | <0.114 | <0.107 | <1.2 | <0.0233 | <0.0553 | <0.0123 | <0.011 | <0.0246 | <0.0231 | <0.0137 | <0.0268 | <0.264 |
| 1,4-Dichlorobenzene | 2.6E+02 | 1.2E+01 | <0.0214 | <0.109 | <0.112 | <0.105 | <1.18 | <0.0229 | <0.0543 | <0.0121 | <0.0108 | <0.0241 | <0.0227 | <0.0134 | <0.0263 | <0.259 |
| 2,2'-Oxybis(1-Chloropropane) | 2.7E+02 | 2.3E+01 | <0.0311 | <0.158 | <0.162 | <0.153 | <1.71 | <0.0332 | <0.0788 | <0.0176 | <0.0157 | <0.0351 | <0.033 | <0.0195 | <0.0383 | <0.377 |
| 2,4,5-Tribromophenol | NS | NS | **0.406** | **0.49** | **0.58** | **0.25** | **0.454 J7** | **0.48** | **0.267** | **0.4** | **0.429** | **0.281** | **0.473** | **0.375** | **0.326** | **0.484 J7** |
| 2,4,5-Trichlorophenol | 3.6E+02 | 4.7E+01 | <0.0231 | <0.117 | <0.121 | <0.114 | <1.27 | <0.0247 | <0.0585 | <0.0131 | <0.0117 | <0.0261 | <0.0245 | <0.0145 | <0.0284 | <0.28 |
| 2,4-Dichlorophenol | 1.1E+03 | 3.5E+03 | <0.0208 | <0.106 | <0.109 | <0.103 | <1.15 | <0.0224 | <0.0531 | <0.0118 | <0.0106 | <0.0237 | <0.0222 | <0.0131 | <0.0258 | <0.254 |
| 2,4-Dimethylphenol | 7.1E+03 | 2.3E+04 | <0.0188 | <0.0955 | <0.0981 | <0.0925 | <1.03 | <0.0201 | <0.0476 | <0.0106 | <0.00947 | <0.0212 | <0.0199 | <0.0116 | <0.0231 | <0.228 |
| 2,4-Dinitrophenol | 7.1E+02 | 2.3E+03 | <0.166 | <0.853 | <0.878 | <0.828 | <9.26 | <0.18 | <0.426 J6 | <0.0952 | <0.0846 | <0.19 | <0.179 | <0.105 | <0.207 | <2.04 |
| 2,4-Dinitrotoluene | 7.9E+01 | 1.1E+01 | <0.0206 | <0.105 | <0.108 | <0.102 | <1.13 | <0.022 | <0.0523 | <0.0117 | <0.0104 | <0.0233 | <0.0218 | <0.0129 | <0.0254 | <0.25 |
| 2,6-Dinitrotoluene | NS | NS | <0.0235 | <0.119 | <0.123 | <0.116 | <1.3 | <0.0252 | <0.0598 | <0.0133 | <0.0119 | <0.0266 | <0.025 | <0.0148 | <0.029 | <0.285 |
| 2-Chloronaphthalene | NS | NS | <0.0128 | <0.0641 | <0.0986 | <0.0622 | <0.695 | <0.0135 | <0.00715 | <0.00637 | <0.0143 | <0.0134 | <0.00793 | <0.0155 | <0.153 | |
| 2-Chlorophenol | 1.8E+03 | 5.8E+03 | <0.0238 | <0.12 | <0.124 | <0.117 | <1.31 | <0.0254 | <0.0602 | <0.0134 | <0.012 | <0.0268 | <0.0252 | <0.0148 | <0.0292 | <0.288 |
| 2-Fluorobiphenyl | NS | NS | **0.379** | **0.298** | **0.303** | **0.27** | **0.281 J7** | **0.249** | **0.151** | **0.168** | **0.188** | **0.197** | **0.192** | **0.176** | **0.21** | **0.25 J7** |
| 2-Fluorophenol | NS | NS | **0.542** | **0.659** | **0.672** | **0.286** | **0.53 J7** | **0.462** | **0.355** | **0.398** | **0.411** | **0.406** | **0.391** | **0.392** | **0.384** | **0.54 J7** |
| 2-Nitrophenol | NS | NS | <0.0257 | <0.13 | <0.134 | <0.127 | <1.41 | <0.0275 | <0.0651 | <0.0145 | <0.013 | <0.029 | <0.0273 | <0.0161 | <0.0316 | <0.311 |
| 3,3-Dichlorobenzidine | 2.0E+01 | 2.7E+00 | <0.0266 | <0.135 | <0.139 | <0.131 | <1.46 | <0.0284 | <0.0673 | <0.015 | <0.0134 | <0.03 | <0.0282 | <0.0167 | <0.0327 | <0.322 |
| 4,6-Dinitro-2-methylphenol | NS | NS | <0.163 | <0.827 | <0.851 | <0.803 | <8.97 | <0.174 | <0.414 | <0.0922 | <0.0822 | <0.184 | <0.173 | <0.102 | <0.201 | <1.98 |
| 4-Bromophenyl-phenylether | NS | NS | <0.0253 | <0.128 | <0.132 | <0.124 | <1.39 | <0.027 | <0.064 | <0.0143 | <0.0127 | <0.0285 | <0.0268 | <0.0159 | <0.0311 | <0.306 |
| 4-Chloro-3-methylphenol | NS | NS | <0.0233 | <0.118 | <0.122 | <0.115 | <1.28 | <0.0249 | <0.0591 | <0.0132 | <0.0118 | <0.0263 | <0.0247 | <0.0146 | <0.0287 | <0.283 |
| 4-Chlorophenyl-phenylether | NS | NS | <0.0251 | <0.127 | <0.131 | <0.123 | <1.38 | <0.0268 | <0.0635 | <0.0142 | <0.0126 | <0.0283 | <0.0266 | <0.0157 | <0.0308 | <0.304 |
| 4-Nitrophenol | NS | NS | <0.0225 | <0.114 | <0.117 | <0.111 | <1.24 | <0.024 | <0.0569 | <0.0127 | <0.0113 | <0.0254 | <0.0238 | <0.0141 | <0.0276 | <0.272 |
| Acenaphthene | 1.0E+04 | 4.5E+04 | <0.0117 | <0.059 | <0.0506 | <0.0573 | <0.64 | <0.0125 | <0.0294 | <0.00655 | <0.00587 | <0.0132 | <0.0124 | <0.0073 | <0.0143 | <0.141 |
| Acenaphthylene | NS | NS | <0.0101 | <0.0514 | **0.496** | <0.0499 | <0.557 | <0.0108 | <0.0256 | <0.00573 | <0.00511 | <0.0114 | <0.0107 | <0.00635 | <0.0125 | <0.123 |
| Anthracene | 5.0E+04 | 2.3E+05 | <0.0128 | <0.0649 | **0.483** | <0.0631 | <0.705 | <0.0137 | <0.0325 | **0.137** | <0.00646 | <0.0145 | <0.0136 | <0.00804 | <0.0158 | <0.156 |
| Benzidine | NS | NS | <0.135 | <0.686 | <0.708 | <0.666 | <7.44 | <0.144 | <0.343 J6 | <0.0765 | <0.0682 | <0.152 | <0.143 | <0.0848 | <0.166 | <1.64 |
| Benzo(a)anthracene | 1.1E+02 | 2.0E+01 | <0.0126 | <0.0643 | **1.66** | <0.0624 | <0.687 | <0.0135 | <0.0321 | **0.133** | <0.00638 | <0.0143 | <0.0134 | <0.00795 | <0.0155 | <0.153 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 | <0.0134 | <0.0678 | **1.52** | <0.0655 | <0.736 | <0.0143 | <0.0338 | **0.151** | <0.00674 | <0.0151 | <0.0143 | <0.00839 | <0.0165 | <0.162 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 | <0.0134 | <0.068 | **1.75** | <0.066 | <0.738 | <0.0143 | <0.034 | **0.253** | <0.00676 | <0.0151 | <0.0142 | <0.00841 | <0.0165 | <0.162 |
| Benzo(g,h,i)perylene | NS | NS | <0.0132 | <0.0667 | **0.83** | <0.0644 | <0.724 | <0.0141 | <0.0334 | **0.0897** | <0.00663 | <0.0149 | <0.014 | <0.00825 | <0.0162 | <0.16 |
| Benzo(k)fluoranthene | 9.1E+02 | 2.1E+02 | <0.0127 | <0.0648 | **0.676** | <0.063 | <0.703 | <0.0136 | <0.0324 | **0.0833** | <0.00645 | <0.0144 | <0.0135 | <0.00802 | <0.0157 | <0.154 |
| Benzylbutyl phthalate | NS | NS | <0.0225 | <0.114 | <0.117 | <0.111 | <1.24 | <0.024 | <0.0569 | <0.0127 | <0.0113 | <0.0254 | <0.0238 | <0.0141 | <0.0276 | <0.272 |
| Bis(2-chloroethoxy)methane | NS | NS | <0.0216 | <0.11 | <0.113 | <0.106 | <1.19 | <0.0231 | <0.0547 | <0.0122 | <0.0109 | <0.0244 | <0.0229 | <0.0135 | <0.0266 | <0.262 |
| Bis(2-chloroethyl)ether | 6.4E+00 | 4.7E-01 | <0.0238 | <0.12 | <0.124 | <0.117 | <1.31 | <0.0254 | <0.0602 | <0.0134 | <0.012 | <0.0268 | <0.0252 | <0.0149 J4 | <0.0292 | <0.288 |
| Bis(2-ethylhexyl)phthalate | 9.5E+02 | 1.6E+02 | <0.0811 | <0.462 | <0.476 | <0.448 | <5.01 | <0.0974 | <0.231 | <0.0515 | <0.046 | <0.103 | <0.0966 | <0.0572 | <0.112 | <1.1 |
| Chrysene | 9.1E+03 | 2.1E+03 | <0.0143 | <0.0725 | **1.7** | <0.0704 | <0.787 | <0.0152 | <0.0362 | **0.127** | <0.00721 | <0.0161 | <0.0151 | <0.00897 | <0.0175 | <0.173 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 | <0.02 | <0.101 | <0.104 | <0.0981 | <1.1 | <0.0214 | <0.0506 | <0.0113 | <0.0101 | <0.0226 | <0.0212 | <0.0125 | <0.0246 | <0.242 |
| Diethyl phthalate | 1.5E+05 | 6.8E+05 | <0.0235 | <0.12 | <0.124 | <0.117 | <1.31 | <0.0254 | <0.0602 | <0.0134 | <0.012 | <0.0268 | <0.0252 | <0.0149 | <0.0292 | <0.288 |
| Dimethyl phthalate | NS | NS | <0.152 | <0.773 | <0.796 | <0.751 | <8.39 | <0.163 | <0.386 | <0.0862 | <0.0768 | <0.172 | <0.161 | <0.0957 | <0.187 | <1.85 |
| Di-n-butyl phthalate | NS | NS | <0.0246 | <0.125 | <0.129 | <0.121 | <1.35 | <0.0263 | <0.0624 | <0.0139 | <0.0124 | <0.0278 | <0.0261 | <0.0154 | <0.0303 | <0.298 |
| Di-n-octyl phthalate | NS | NS | <0.0486 | <0.246 | <0.254 | <0.238 | <2.67 | <0.0519 | <0.124 | <0.0275 | <0.0245 | <0.0548 | <0.0515 | <0.0305 | <0.0598 | <0.589 |
| Fluoranthene | 9.7E+03 | 3.0E+04 | <0.013 | <0.0658 | **3.8** | <0.0639 | <0.714 | <0.0138 | <0.0329 | **0.228** | <0.00654 | <0.0146 | <0.0137 | <0.00814 | <0.0159 | <0.157 |
| Fluorene | 8.7E+03 | 3.0E+04 | <0.0117 | <0.0594 | <0.0611 | <0.0576 | <0.644 | <0.0125 | <0.0297 | **0.0697** | <0.0059 | <0.0132 | <0.0124 | <0.00734 | <0.0143 | <0.141 |
| Hexachloro-1,3-butadiene | 1.0E+02 | 5.3E+00 | <0.0242 | <0.123 | <0.126 | <0.119 | <1.33 | <0.0259 | <0.0613 | <0.0137 | <0.0122 | <0.0273 | <0.0256 | <0.0152 | <0.0298 | <0.293 |
| Hexachlorobenzene | 7.7E+00 | 7.8E-01 | <0.0255 | <0.129 | <0.133 | <0.125 | <1.4' | <0.0272 | <0.0646 J6 | <0.0144 | <0.0128 | <0.0288 | <0.027 | <0.016 | <0.0314 | <0.309 |
| Hexachlorocyclopentadiene | NS | NS | <0.0376 | <0.192 | <0.197 | <0.186 | <2.08 | <0.0404 | <0.0958 J6 | <0.0214 | <0.0191 | <0.0427 | <0.0401 | <0.0237 | <0.0465 | <0.455 |
| Hexachloroethane | 1.2E+02 | 7.8E+00 | <0.0283 | <0.143 | <0.148 | <0.139 | <1.56 | <0.0302 | <0.0717 | <0.016 | <0.0143 | <0.032 | <0.03 | <0.0178 | <0.0348 | <0.343 |
| Indeno(1,2,3-cd)pyrene | 1.1E+02 | 2.1E+01 | <0.0203 | <0.103 | **0.821** | <0.1 | <1.12 | <0.0217 | <0.0515 | **0.106** | <0.0102 | <0.0229 | <0.0215 | <0.0128 | <0.025 | <0.246 |
| Isophorone | NS | NS | <0.022 | <0.112 | <0.115 | <0.108 | <1.21 | <0.0235 | <0.0558 | <0.0125 | <0.0111 | <0.0248 | <0.0234 | <0.0138 | <0.0271 | <0.267 |
| Naphthalene | 4.0E+02 | 1.7E+01 | <0.016 | <0.0816 | <0.0843 | <0.0569 | <0.993 | <0.0193 | <0.0457 | **0.475** | <0.0091 | <0.0204 | <0.0191 | <0.0113 | <0.0222 | <0.219 |
| Nitrobenzene | NS | NS | <0.0251 | <0.127 | <0.131 | <0.123 | <1.38 | <0.0268 | <0.0635 | <0.0142 | <0.0126 | <0.0283 | <0.0266 | <0.0157 | <0.0308 | <0.304 |
| n-Nitrosodimethylamine | NS | NS | <0.107 | <0.541 | <0.557 | <0.525 | <5.87 | <0.114 | <0.27 J6 | <0.0603 | <0.0538 | <0.121 | <0.113 | <0.0669 | <0.131 | <1.29 |
| n-Nitrosodi-n-propylamine | NS | NS | <0.024 | <0.122 | <0.125 | <0.118 | <1.32 | <0.0256 | <0.0607 | <0.0136 | <0.0121 | <0.0271 | <0.0254 | <0.015 | <0.0295 | <0.291 |
| n-Nitrosodiphenylamine | NS | NS | <0.0544 | <0.276 | <0.284 | <0.268 | <2.99 | <0.0582 | <0.138 | <0.0308 | <0.0274 | <0.0615 | <0.0577 | <0.0341 | <0.067 | <0.66 |
| Pentachlorophenol | 2.0E+01 | 4.0E+00 | <0.0193 | <0.0981 | <0.101 | <0.0953 | <1.06 | <0.0207 | <0.048 | <0.0108 | <0.00976 | <0.0218 | <0.0205 | <0.0121 | <0.0238 | <0.234 |
| Phenanthrene | NS | NS | <0.0143 | <0.0724 | **3.13** | <0.0703 | <0.785 | <0.0152 | <0.0362 | **0.253** | <0.0072 | <0.0161 | <0.0151 | <0.00899 | <0.0175 | <0.173 |
| Phenol | 3.5E+04 | 3.5E+05 | <0.0269 | <0.147 | <0.151 | <0.142 | <1.59 | <0.0309 | <0.0733 | **0.564** | <0.0146 | <0.0327 | <0.0307 | <0.0182 | <0.0356 | <0.351 |
| Pyrene | 5.0E+03 | 2.3E+04 | <0.014 | <0.071 | **3.46** | <0.0689 | <0.77 | <0.015 | <0.0355 J3 | **0.204 J** | <0.00705 | <0.0159 | <0.0149 | <0.00878 | <0.0173 | <0.17 |

Notes:

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

"--" = Not used.

< = Not detected at or above method detection limit.

Bold = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NS = No standard established.

RWQCB = Regional Water Quality Control Board.

SVOCs analyzed by United States Environmental Protection Agency (EPA) Method 8270C.

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

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

J7 = Surrogate recovery cannot be used for control limit evaluation due to dilution.

R = Data rejected for laboratory quality assurance/quality control reasons.

TS = Sample received past/too close to holding time expiration.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2018, Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

[2]United States Environmental Protection Agency Industrial Soil Regional Screening Levels, May 2024.

**Table 5. Summary of Polychlorinated biphenyls (PCBs) in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | BS-B1-1 | BS-C1-1 | BS-D1-1 | BS-D1-1 | BS-E1-1 | BS-F1-1 | BS-F1-1 | BS-G1-1 | BS-G1-1 | BS-I1-1 | BS-I2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 6/20/2024 | 6/21/2024 | 6/24/2024 | 6/24/2024 | 6/22/2024 | 6/28/2024 | 6/28/2024 | 6/29/2024 | 6/29/2024 | 6/30/2024 | 6/30/2024 |
| **POLYCHLORINATED BIPHENYLS - 8082 (mg/kg)** | | | | | | | | | | | | | |
| PCB 1016 | 5.5E+00 | 9.4E-01 | <0.0143 | <0.0127 | <0.0131 | <0.013 | <0.0144 | <0.0129 | <0.0129 | <0.0138 | <0.0135 | <0.0125 | <0.0266 |
| PCB 1221 | 5.5E+00 | 9.4E-01 | <0.0143 | <0.0127 | <0.0131 | <0.013 | <0.0144 | <0.0129 | <0.0129 | <0.0138 | <0.0135 | <0.0125 | <0.0266 |
| PCB 1232 | 5.5E+00 | 9.4E-01 | <0.0143 | <0.0127 | <0.0131 | <0.013 | <0.0144 | <0.0129 | <0.0129 | <0.0138 | <0.0135 | <0.0125 | <0.0266 |
| PCB 1242 | 5.5E+00 | 9.4E-01 | <0.0143 | <0.0127 | <0.0131 | <0.013 | <0.0144 | <0.0129 | <0.0129 | <0.0138 | <0.0135 | <0.0125 | <0.0266 |
| PCB 1248 | 5.5E+00 | 9.4E-01 | <0.00893 | <0.00797 | <0.00816 | <0.00811 | <0.00898 | <0.00807 | <0.00807 | <0.00862 | <0.00843 | <0.00779 | <0.0167 |
| PCB 1254 | 5.5E+00 | 9.4E-01 | <0.00893 | <0.00797 | <0.00816 | <0.00811 | <0.00898 | <0.00807 | <0.00807 | <0.00862 | <0.00843 | <0.00779 | <0.0167 |
| PCB 1260 | 5.5E+00 | 9.4E-01 | <0.00893 | <0.00797 | **0.035** | <0.00811 | <0.00898 | <0.00807 | <0.00807 | <0.00862 | <0.00843 | <0.00779 | **0.265** |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NA* = Not analyzed due to lab disposing of sample without notice.

PCBs analyzed by United States Environmental Protection Agency (EPA) Method 8082.

RWQCB = Regional Water Quality Control Board.

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

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

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs). Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 5. Summary of Polychlorinated biphenyls (PCBs) in Soil. AB and i Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | BS-I3-1 | BS-I3-1 | G/BS-A2-1 | G/BS-A2-1 | G/BS-A2-1 | G/BS-A3-1 | G/BS-A3-1 | G/BS-D4-1 | G/BS-D4-1 | G/BS-D4-1 | G/BS-F4-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 1.0 | 2.0 | 3.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/30/2024 | 5/30/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 |
| **POLYCHLORINATED BIPHENYLS - 8082 (mg/kg)** | | | | | | | | | | | | | |
| PCB 1016 | 5.5E+00 | 9.4E-01 | <0.0136 | <0.0136 | <0.0132 | <0.0132 | <0.0156 | <0.013 | <0.027 | <0.0125 | <0.0131 | <0.0132 | <0.0129 |
| PCB 1221 | 5.5E+00 | 9.4E-01 | <0.0136 | <0.0136 | <0.0132 | <0.0132 | <0.0156 | <0.013 | <0.027 | <0.0125 | <0.0131 | <0.0132 | <0.0129 |
| PCB 1232 | 5.5E+00 | 9.4E-01 | <0.0136 | <0.0136 | <0.0132 | <0.0132 | <0.0156 | <0.013 | <0.027 | <0.0125 | <0.0131 | <0.0132 | <0.0129 |
| PCB 1242 | 5.5E+00 | 9.4E-01 | <0.0136 | <0.0136 | <0.0132 | <0.0132 | <0.0156 | <0.013 | <0.027 | <0.0125 | <0.0131 | <0.0132 | <0.0129 |
| PCB 1248 | 5.5E+00 | 9.4E-01 | <0.00849 | <0.00853 | <0.00823 | <0.00827 | <0.00978 | <0.0081 | <0.0169 | <0.00782 | <0.00822 | <0.00823 | <0.00805 |
| PCB 1254 | 5.5E+00 | 9.4E-01 | <0.00849 | <0.00853 | <0.00823 | <0.00827 | <0.00978 | <0.0081 | <0.0169 | **0.79** | **3.69** | **0.261** | <0.00805 |
| PCB 1260 | 5.5E+00 | 9.4E-01 | **0.0405** | <0.00853 | **0.0362** | **0.133** | <0.00978 | **0.255** | <0.0169 | <0.00782 | <0.00822 | <0.00823 | **0.0442** |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NA* = Not analyzed due to lab disposing of sample without notice.

PCBs analyzed by United States Environmental Protection Agency (EPA) Method 8082.

RWQCB = Regional Water Quality Control Board.

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

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

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 5. Summary of Polychlorinated biphenyls (PCBs) in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G/BS-F4-1 | G/BS-H1-1 | G/UC-B1-1 | G/UC-B4-1 | G/UC-B4-1 | G/UC-C1-1 | G/UC-C4-1 | G/UC-H4-1 | G/UC-I1-1 | G/UC-I2-1 | G/UC-I3-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/29/2024 | 5/30/2024 | 5/21/2024 | 5/23/2024 | 5/23/2024 | 5/21/2024 | 5/22/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **POLYCHLORINATED BIPHENYLS - 8082 (mg/kg)** | | | | | | | | | | | | | |
| PCB 1016 | 5.5E+00 | 9.4E-01 | <0.014 | <0.0145 | <0.0136 | <0.0144 | <0.0131 | <0.0126 | <0.0135 | <0.0126 | <0.015 | <0.0269 | <0.0131 |
| PCB 1221 | 5.5E+00 | 9.4E-01 | <0.014 | <0.0145 | <0.0136 | <0.0144 | <0.0131 | <0.0126 | <0.0135 | <0.0126 | <0.015 | <0.0269 | <0.0131 |
| PCB 1232 | 5.5E+00 | 9.4E-01 | <0.014 | <0.0145 | <0.0136 | <0.0144 | <0.0131 | <0.0126 | <0.0135 | <0.0126 | <0.015 | <0.0269 | <0.0131 |
| PCB 1242 | 5.5E+00 | 9.4E-01 | <0.014 | <0.0145 | <0.0136 | <0.0144 | <0.0131 | <0.0126 | <0.0135 | <0.0126 | <0.015 | <0.0269 | <0.0131 |
| PCB 1248 | 5.5E+00 | 9.4E-01 | <0.00873 | <0.00905 | <0.00851 | <0.00899 | <0.00817 | <0.00786 | <0.00846 | <0.00787 | <0.00935 | <0.0168 | <0.00822 |
| PCB 1254 | 5.5E+00 | 9.4E-01 | <0.00873 | <0.00905 | <0.00851 | <0.00899 | <0.00817 | <0.00786 | <0.00846 | <0.00787 | <0.00935 | <0.0168 | <0.00822 |
| PCB 1260 | 5.5E+00 | 9.4E-01 | **0.0331** | <0.00905 | <0.00851 | <0.00899 | <0.00817 | <0.00786 | <0.00846 | <0.00787 | <0.00935 | <0.0168 | **0.0456 P** |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NA* = Not analyzed due to lab disposing of sample without notice.

PCBs analyzed by United States Environmental Protection Agency (EPA) Method 8082.

RWQCB = Regional Water Quality Control Board.

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

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

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure, January 2019.

**Table 5. Summary of Polychlorinated biphenyls (PCBs) in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G/UC-I3-1 | G/UC-I4-1 | G/UC-I4-1 | G-A1-1 | G-A1-1 | G-A1-1 | G-B2-1 | G-B2-1 | G-B3-1 | G-B3-1 | G-C2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 3.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 6/30/2024 | 6/30/2024 | 6/30/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 |
| **POLYCHLORINATED BIPHENYLS - 8082 (mg/kg)** | | | | | | | | | | | | | |
| PCB 1016 | 5.5E+00 | 9.4E-01 | <0.0149 | <0.0136 | <0.013 | <0.0132 | <0.0132 | <0.0129 | <0.0127 | <0.0128 | <0.0142 | <0.0134 | <0.0129 |
| PCB 1221 | 5.5E+00 | 9.4E-01 | <0.0149 | <0.0136 | <0.013 | <0.0132 | <0.0132 | <0.0129 | <0.0127 | <0.0128 | <0.0142 | <0.0134 | <0.0129 |
| PCB 1232 | 5.5E+00 | 9.4E-01 | <0.0149 | <0.0136 | <0.013 | <0.0132 | <0.0132 | <0.0129 | <0.0127 | <0.0128 | <0.0142 | <0.0134 | <0.0129 |
| PCB 1242 | 5.5E+00 | 9.4E-01 | <0.0149 | <0.0136 | <0.013 | <0.0132 | <0.0132 | <0.0129 | <0.0127 | <0.0128 | <0.0142 | <0.0134 | <0.0129 |
| PCB 1248 | 5.5E+00 | 9.4E-01 | <0.00935 | <0.00852 | <0.00811 | <0.00824 | <0.00823 | <0.00807 | <0.00794 | <0.00804 | <0.0089 | <0.00836 | <0.00805 |
| PCB 1254 | 5.5E+00 | 9.4E-01 | <0.00935 | <0.00852 | <0.00811 | <0.00824 | <0.00823 | <0.00807 | <0.00794 | <0.00804 | <0.0089 | <0.00836 | <0.00805 |
| PCB 1260 | 5.5E+00 | 9.4E-01 | <0.00935 | **0.0926 P** | <0.00811 | **0.0343** | **0.731** | <0.00807 | <0.00794 | <0.00804 | <0.0089 | <0.00836 | <0.00805 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NA* = Not analyzed due to lab disposing of sample without notice.

PCBs analyzed by United States Environmental Protection Agency (EPA) Method 8082.

RWQCB = Regional Water Quality Control Board.

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

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

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs). Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 5. Summary of Polychlorinated biphenyls (PCBs) in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-C3-1 | G-D1-1 | G-D2-1 | G-D3-1 | G-D3-1 | G-D3-1 | G-E1-1 | G-E2-1 | G-E3-1 | G-E3-1 | G-F1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/21/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/22/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 |
| **POLYCHLORINATED BIPHENYLS - 8082 (mg/kg)** | | | | | | | | | | | | | |
| PCB 1016 | 5.5E+00 | 9.4E-01 | <0.0127 | <0.0129 | <0.0137 | <0.0139 | <0.0144 J3,J5 | <0.0141 | <0.0135 | <0.0136 | <0.0137 | <0.0142 | <0.0138 |
| PCB 1221 | 5.5E+00 | 9.4E-01 | <0.0127 | <0.0129 | <0.0137 | <0.0139 | <0.0144 | <0.0141 | <0.0135 | <0.0136 | <0.0137 | <0.0142 | <0.0138 |
| PCB 1232 | 5.5E+00 | 9.4E-01 | <0.0127 | <0.0129 | <0.0137 | <0.0139 | <0.0144 | <0.0141 | <0.0135 | <0.0136 | <0.0137 | <0.0142 | <0.0138 |
| PCB 1242 | 5.5E+00 | 9.4E-01 | <0.0127 | <0.0129 | <0.0137 | **0.167** | <0.0144 | <0.0141 | <0.0135 | <0.0136 | **1.88** | <0.0142 | <0.0138 |
| PCB 1248 | 5.5E+00 | 9.4E-01 | <0.00796 | <0.00806 | <0.00854 | <0.00871 | <0.00898 | <0.00885 | <0.00842 | <0.00849 | <0.00858 | <0.00889 | <0.00864 |
| PCB 1254 | 5.5E+00 | 9.4E-01 | <0.00796 | <0.00806 | <0.00854 | <0.00871 | <0.00898 | <0.00885 | <0.00842 | <0.00849 | **1.14** | <0.00889 | <0.00864 |
| PCB 1260 | 5.5E+00 | 9.4E-01 | <0.00796 | <0.00806 | <0.00854 | <0.00871 | <0.00898 | <0.00885 | <0.00842 | <0.00849 | <0.00858 | <0.00889 | <0.00864 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NA* = Not analyzed due to lab disposing of sample without notice.

PCBs analyzed by United States Environmental Protection Agency (EPA) Method 8082.

RWQCB = Regional Water Quality Control Board.

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

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

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure, January 2019.

**Table 5. Summary of Polychlorinated biphenyls (PCBs) in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-F2-1 | G-F2-1 | G-F3-1 | G-F3-1 | G-G1-1 | G-G1-1 | G-G2-1 | G-G2-1 | G-G3-1 | G-G3-1 | G-G4-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/29/2024 | 5/29/2024 | 5/23/2024 | 5/23/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/23/2024 |
| **POLYCHLORINATED BIPHENYLS - 8082 (mg/kg)** | | | | | | | | | | | | | |
| PCB 1016 | 5.5E+00 | 9.4E-01 | <0.0141 | <0.0133 | <0.0247 | <0.0158 | <0.0139 | <0.013 | <0.0148 | <0.0156 | <0.0251 | <0.029 | <0.0141 |
| PCB 1221 | 5.5E+00 | 9.4E-01 | <0.0141 | <0.0133 | <0.0247 | <0.0158 | <0.0139 | <0.013 | <0.0148 | <0.0156 | <0.0251 | <0.029 | <0.0141 |
| PCB 1232 | 5.5E+00 | 9.4E-01 | <0.0141 | <0.0133 | <0.0247 | <0.0158 | <0.0139 | <0.013 | <0.0148 | <0.0156 | <0.0251 | <0.029 | <0.0141 |
| PCB 1242 | 5.5E+00 | 9.4E-01 | <0.0141 | <0.0133 | <0.0247 | <0.0158 | <0.0139 | <0.013 | <0.0148 | <0.0156 | <0.0251 | <0.029 | <0.0141 |
| PCB 1248 | 5.5E+00 | 9.4E-01 | <0.00881 | <0.00831 | <0.0155 | <0.00988 | <0.00868 | <0.00816 | <0.00923 | <0.00978 | <0.0157 | <0.0182 | <0.00884 |
| PCB 1254 | 5.5E+00 | 9.4E-01 | <0.00881 | <0.00831 | <0.0155 | <0.00988 | <0.00868 | <0.00816 | <0.00923 | <0.00978 | <0.0157 | <0.0182 | <0.00884 |
| PCB 1260 | 5.5E+00 | 9.4E-01 | <0.00881 | <0.00831 | <0.0155 | <0.00988 | <0.00868 | <0.00816 | **0.143** | <0.00978 | <0.0157 | <0.0182 | <0.00884 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NA* = Not analyzed due to lab disposing of sample without notice.

PCBs analyzed by United States Environmental Protection Agency (EPA) Method 8082.

RWQCB = Regional Water Quality Control Board.

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

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

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 5. Summary of Polychlorinated biphenyls (PCBs) in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-H2-1 | G-H2-1 | G-H3-1 | G-H3-1 | G-H3-1 | G-H3-1 | UC-A2-1 | UC-A2-1 | UC-A3-1 | UC-A3-1 | UC-B4-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 1.0 | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/23/2024 |
| **POLYCHLORINATED BIPHENYLS - 8082 (mg/kg)** | | | | | | | | | | | | | |
| PCB 1016 | 5.5E+00 | 9.4E-01 | <0.0275 | — | <0.0129 | <0.0131 | <0.0149 | <0.0146 | <0.0127 | <0.129 | <0.0125 | <0.014 | <0.129 |
| PCB 1221 | 5.5E+00 | 9.4E-01 | <0.0275 | — | <0.0129 | <0.0131 | <0.0149 | <0.0146 | <0.0127 | <0.129 | <0.0125 | <0.014 | <0.129 |
| PCB 1232 | 5.5E+00 | 9.4E-01 | <0.0275 | — | <0.0129 | <0.0131 | <0.0149 | <0.0146 | <0.0127 | <0.129 | <0.0125 | <0.014 | <0.129 |
| PCB 1242 | 5.5E+00 | 9.4E-01 | <0.0275 | — | <0.0129 | <0.0131 | <0.0149 | <0.0146 | <0.0127 | <0.129 | <0.0125 | <0.014 | <0.129 |
| PCB 1248 | 5.5E+00 | 9.4E-01 | <0.0172 | — | <0.0081 | <0.0082 | <0.00934 | <0.00911 | <0.00797 | <0.0808 | <0.00785 | <0.00877 | <0.0808 |
| PCB 1254 | 5.5E+00 | 9.4E-01 | <0.0172 | — | <0.0081 | <0.0082 | <0.00934 | <0.00911 | <0.00797 | <0.0808 | <0.00785 | <0.00877 | <0.0808 |
| PCB 1260 | 5.5E+00 | 9.4E-01 | **2.61** | NA* | **1.12** | **1.4** | **0.997** | **0.0662** | **0.147** | <0.0808 | **0.0196** | <0.00877 | <0.0808 |

**Notes:**

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**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

NA* = Not analyzed due to lab disposing of sample without notice.

PCBs analyzed by United States Environmental Protection Agency (EPA) Method 8082.

RWQCB = Regional Water Quality Control Board.

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

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

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 5. Summary of Polychlorinated biphenyls (PCBs) in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Sample Depth (ft bgs)<br>Sample Date | 2019 RWQCB<br>Direct Contact<br>Construction Worker ESLs[1] | 2019 RWQCB<br>Direct Contact<br>Commercial / Industrial ESLs[1] | UC-B4-2<br>2.0<br>5/23/2024 | UC-H1-1<br>1.0<br>5/30/2024 |
|---|---|---|---|---|
| **POLYCHLORINATED BIPHENYLS - 8082 (mg/kg)** | | | | |
| PCB 1016 | 5.5E+00 | 9.4E-01 | <0.0288 | <0.0144 |
| PCB 1221 | 5.5E+00 | 9.4E-01 | <0.0288 | <0.0144 |
| PCB 1232 | 5.5E+00 | 9.4E-01 | <0.0288 | <0.0144 |
| PCB 1242 | 5.5E+00 | 9.4E-01 | <0.0288 | <0.0144 |
| PCB 1248 | 5.5E+00 | 9.4E-01 | <0.0181 | <0.009 |
| PCB 1254 | 5.5E+00 | 9.4E-01 | <0.0181 | <0.009 |
| PCB 1260 | 5.5E+00 | 9.4E-01 | <0.0181 | <0.009 |

**Notes:**
Yellow shaded concentrations exceed the Construction Worker ESLs.
Boxed concentrations exceed the Commercial/Industrial ESLs.
< = Not detected at or above method detection limit.
— = Sample not analyzed.
**Bold** = Detected concentration.
ESL = Environmental Screening Level.
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NA* = Not analyzed due to lab disposing of sample without notice.
PCBs analyzed by United States Environmental Protection Agency (EPA) Method 8082.
RWQCB = Regional Water Quality Control Board.
J = The identification of the analyte is acceptable; the report value is an estimate.
J3 = The associated batch quality control was outside the established quality control for precision.
J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.
[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | BS-B1-1 | BS-B1-1 | BS-C1-1 | BS-C1-1 | BS-D1-1 | BS-D1-1 | BS-E1-1 | BS-E1-1 | BS-F1-1 | BS-F1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 1.0 | 2.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/20/2024 | 5/20/2024 | 5/21/2024 | 5/21/2024 | 5/24/2024 | 5/24/2024 | 5/22/2024 | 5/22/2024 | 5/28/2024 | 5/28/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.35 | <1.39 | <1.4 | <1.1 | <0.997 | <1.29 | **5.9 B** | <1.28 | <1.03 | <0.989 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <4.73 | <9.6 | <0.96 | <8.44 | <16.2 | <0.931 | **11.4** | <9.13 | — | — |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **75** | **173** | **9.62** | <15.3 | **212** | **20.4** | **24.4** | **82.5** | — | — |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **61** | **212** | **12.4** | **51.2** | **204** | **21.1** | **12.6** | **99** | — | — |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

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**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

RWQCB = Regional Water Quality Control Board.

Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

B = Analyte also detected in the laboratory blank.

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

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

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Q = Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should beconsidered minimum values.

T8 = Sample received past/too close to holding time expiration.

V = The sample concentration is too high to evaluate accurate spike recoveries.

- = Result biased low due to laboratory quality assurance/quality control issues.

+ = Result biased high due to laboratory quality assurance/quality control issues.

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | BS-F1-1 | BS-F1-1 | BS-F1-1 | BS-G1-1 | BS-G1-1 | BS-I1-1 | BS-I1-1 | BS-I1-1 | BS-I2-1 | BS-I2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 3.0 | 4.0 | 5.0 | 3.0 | 5.0 | 3.0 | 4.0 | 5.0 | 3.0 | 4.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 | 5/29/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.11 | <1.2 | <1.3 | <1.19 | **5.45 B** | <1.13 | <1.83 | <1.41 | <1.28 | <1.27 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <4.24 | — | <0.897 | <7.84 | <0.982 | <17.3 | <42.3 | **132** | <0.909 | <0.917 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **30.2 J-** | — | <1.63 | **73.4** | <1.78 | **134** | **451** | **275** | **6** | <1.66 |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **47.4** | — | <1.63 | **94.9** | <1.78 | **153** | **318** | **124** | <1.65 | <1.66 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

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**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

RWQCB = Regional Water Quality Control Board.

Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

B = Analyte also detected in the laboratory blank.

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J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Q = Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should beconsidered minimum values.

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | BS-I2-1 | BS-I3-1 | BS-I3-1 | BS-I3-1 | G/BS-A2-1 | G/BS-A2-1 | G/BS-A2-1 | G/BS-A3-1 | G/BS-A3-1 | G/BS-D4-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 5.0 | 3.0 | 4.0 | 5.0 | 3.0 | 4.0 | 5.0 | 3.0 | 5.0 | 3.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/28/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.36 | <1.12 | <1.28 | <1.27 | <1.46 | **6.14 B** | <1.27 | <1.19 | <1.31 | **13.1 B** |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <0.945 | <1.7 | <0.91 | <0.912 | <0.972 | — | <0.913 | <4.35 | **5.45** | <8.17 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | <1.71 | **47 J-** | <1.65 | <1.65 | **9.84** | — | <1.66 | **134** | **7.8** | **181** |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | <1.71 | **33.5** | <1.65 | <1.65 | **5.67** | — | <1.66 | **102** | <1.68 | **127** |

**Notes:**

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ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

RWQCB = Regional Water Quality Control Board.

Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G/BS-D4-1 | G/BS-F4-1 | G/BS-F4-1 | G/BS-H1-1 | G/BS-H1-1 | G/BS-H1-1 | G/UC-B1-1 | G/UC-B1-1 | G/UC-B4-1 | G/UC-B4-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 5.0 | 3.0 | 5.0 | 3.0 | 4.0 | 5.0 | 3.0 | 5.0 | 1.0 | 2.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/28/2024 | 5/29/2024 | 5/29/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/21/2024 | 5/21/2024 | 5/23/2024 | 5/23/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | **3.84 B** | <1.28 | <1.41 | **348** | **34.4** | **45.7** | <1 | <1.48 | **8.35 T8** | <1.01 T8 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <45 | <0.909 | <0.957 | **6.59** | <0.962 | <0.945 | <0.804 | <1.01 | — | — |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **351** | <1.65 | **8.54** | **28.7** | <1.75 | <1.71 | <1.46 | **14.5** | — | — |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **557** | <1.65 | <1.74 | **11.7** | <1.75 | <1.71 | <1.46 | **11.1** | — | — |

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Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

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**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G/UC-B4-1 | G/UC-B4-1 | G/UC-B4-1 | G/UC-B4-1 | G/UC-C1-1 | G/UC-C1-1 | G/UC-C1-1 | G/UC-C1-1 | G/UC-C1-1 | G/UC-C4-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 3.0 | 4.0 | 5.0 | 8.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/22/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.17 T8 | <1.25 T8 | <1.22 T8 | <1.27 T8 | <0.945 T8 | <1.16 T8 | <1.1 | <1.17 T8 | <1.27 | **4.48 B** |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | **4.47 J-** | — | <0.846 | — | — | <79.3 T8 | <81.5 | <78.7 J6T8 | <0.92 | — |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **25.4 J-** | — | <1.54 | — | — | **685 T8** | **784** | **1,060 T8V** | **6.09** | — |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **26.3** | — | <1.54 | — | — | **895 T8** | **1,090** | **1,340 T8** | **7.19** | — |

**Notes:**

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Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

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**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G/UC-C4-1 | G/UC-C4-1 | G/UC-C4-1 | G/UC-C4-1 | G/UC-H4-1 | G/UC-H4-1 | G/UC-H4-1 | G/UC-I1-1 | G/UC-I1-1 | G/UC-I1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 2.0 | 3.0 | 4.0 | 5.0 | 3.0 | 4.0 | 5.0 | 3.0 | 4.0 | 5.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | **3.53 B** | **5.55 B** | **6 BT8** | <1.38 | **4.95 B** | <1.3 | <1.13 | <1.38 | <1.51 | <1.39 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | **29.4** | <34.7 J3 | <83.3 | <0.948 | **8.08** | <0.917 | <0.851 | <0.973 | <0.974 | <0.962 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **65.5** | **334 J3V** | **1,080** | <1.72 | **51.5 J-** | <1.66 | <1.54 | **19.6** | <1.77 | <1.75 |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **27.4** | **380** | **1,310** | <1.72 | **36** | <1.66 | <1.54 | **18.7** | <1.77 | <1.75 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

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ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

RWQCB = Regional Water Quality Control Board.

Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G/UC-I1-1 | G/UC-I2-1 | G/UC-I2-1 | G/UC-I2-1 | G/UC-I2-1 | G/UC-I3-1 | G/UC-I3-1 | G/UC-I3-1 | G/UC-I3-1 | G/UC-I4-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 8.0 | 3.0 | 4.0 | 5.0 | 8.0 | 3.0 | 4.0 | 5.0 | 8.0 | 3.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.22 | <1.45 | <1.75 | <1.4 | <1.36 | <1.16 | <1.35 | <1.18 | <1.42 | <1.17 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <0.883 | <0.968 | <0.965 | <0.966 | <0.95 | <0.877 | <0.916 | <0.876 | <0.982 | **11.1** |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | <1.6 | **6.55 J-** | <1.75 | **9.33 J-** | <1.72 | **4.96** | <1.66 | <1.59 | <1.78 | **33.6** |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | <1.6 | <1.76 | <1.75 | **7.99** | <1.72 | <1.59 | <1.66 | <1.59 | <1.78 | **19.5** |

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ft bgs = Feet below ground surface.

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Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

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[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G/UC-I4-1 | G/UC-I4-1 | G/UC-I4-1 | G-A1-1 | G-A1-1 | G-A1-1 | G-B2-1 | G-B2-1 | G-B3-1 | G-B3-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 4.0 | 5.0 | 8.0 | 3.0 | 4.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.25 | <1.22 | <1.27 | <1.11 | **4.57 B** | <1.22 | <1.45 | — | <1.45 | <1.42 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <0.894 | <0.887 | <0.905 | <0.801 | — | <0.901 | **11.3** | <0.905 | <0.922 | <0.964 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **6.33** | <1.61 | <1.64 | **8.3** | — | **18.9** | **45.2** | **6.14** | <1.67 | <1.75 |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | <1.62 | <1.61 | <1.64 | **7.74** | — | **19.4** | **23.7** | **8.06** | <1.67 | <1.75 |

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Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

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**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-C2-1 | G-C2-1 | G-C2-1 | G-C2-1 | G-C2-1 | G-C3-1 | G-C3-1 | G-C3-1 | G-C3-1 | G-C3-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 | 5/21/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.01 T8 | <1 T8 | <0.976 | <0.997 T8 | <1.45 | <1.12 T8 | <1.31 T8 | <0.945 | <1.07 T8 | <1.55 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | — | <79.1 T8 | <156 | <80.3 T8 | <0.952 | <79.1 T8 | <0.88 T8 | <15.6 | <80.1 T8 | <0.954 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | — | **773 T8** | **2,080** | **1,740 T8** | **16.1** | <144 T8 | <1.6 T8 | **145** | **1,210 T8** | **7.16** |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | — | **999 T8** | **2,180** | **1,490 T8** | **16.4** | **651 T8** | <1.6 T8 | **171** | **1,380 T8** | **5.86** |

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Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

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**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-D1-1 | G-D1-1 | G-D1-1 | G-D1-1 | G-D1-1 | G-D2-1 | G-D2-1 | G-D3-1 | G-D3-1 | G-E1-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/22/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <0.985 | <1.02 | **13.1** | **6.68** | **5.42 B** | **12.7** | <1.04 | <1.22 | **9.78** | <1.17 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | — | <81.4 | **553** | **388** | **404** | **27.7** | **4.64** | **37** | <17.9 | <17.4 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | — | **922** | **700** | **743** | **880** | **85.9** | **22.8** | **122** | **200** | **124** |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | — | **1,090** | **389** | **675** | **505** | **68.4** | **22.4** | **45.6** | **209** | **172** |

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**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-E1-1 | G-E1-1 | G-E2-1 | G-E2-1 | G-E3-1 | G-E3-1 | G-F1-1 | G-F1-1 | G-F2-1 | G-F2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 4.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/22/2024 | 5/22/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/29/2024 | 5/29/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <0.958 | <0.935 | **5.29 B** | <1.09 | **3.95 B** | <0.966 | <1.43 | <1.43 | **243** | **275** |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <78.2 | <155 | **8.4** | <4.21 | <44.1 | <7.74 | <9.79 | <0.97 | **67** | **9.48** |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **890** | **859** | **52.1** | **76.9** | **421** | **69** | **55.7** | <1.76 | **267** | **8.67** |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **1,430** | **1,430** | **39.2** | **87** | **415** | **59.6** | **84.4** | <1.76 | **236** | **10.1** |

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**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-F3-1 | G-F3-1 | G-F3-1 | G-F3-1 | G-G1-1 | G-G1-1 | G-G1-1 | G-G1-1 | G-G1-1 | G-G2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 1.0 | 2.0 | 3.0 | 5.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 1.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | **74.1 Q** | **35.3 B** | **41.6** | **26.5** | <1.17 T8 | <1.01 T8 | **80.1** | **45.6 T8** | **62.2** | <1.4 T8 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | — | **874** | **1,660** | **886** | — | **9.13** | **1,430** | **341 V** | **840** | — |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | — | **3,860** | **5,520** | **2,970** | — | **30.2** | **6,350** | **1,570 V** | **4,040** | — |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | — | **1,000** | **1,320** | **793** | — | **15.3** | **2,430** | **623** | **1,590** | — |

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| Sample ID | 2019 RWQCB | 2019 RWQCB | G-G2-1 | G-G2-1 | G-G2-1 | G-G2-1 | G-G3-1 | G-G3-1 | G-G4-1 | G-G4-1 | G-H2-1 | G-H2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 2.0 | 3.0 | 4.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 4.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/23/2024 | 5/23/2024 | 5/30/2024 | 5/30/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | **4.58 BT8** | **117** | **17 BT8** | **12.7 B** | **4.3 B** | <1.36 | **12.1 B** | <1.3 | <1.11 | <1.13 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | **12.5** | **3,920** | **503** | **181** | <0.906 | <0.944 | **9.22** | <0.928 | **27.7** | **87.3** |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **54** | **20,000** | **2,580** | **900** | <1.64 | <1.71 | **27** | <1.68 | **38.4** | **490** |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **27** | **9,140** | **1,230** | **428** | <1.64 | <1.71 | **16.2** | <1.68 | **21.5** | **220** |

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

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

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Q = Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should beconsidered minimum values.

T8 = Sample received past/too close to holding time expiration.

V = The sample concentration is too high to evaluate accurate spike recoveries.

- = Result biased low due to laboratory quality assurance/quality control issues

+ = Result biased high due to laboratory quality assurance/quality control issues

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | G-H2-1 | G-H3-1 | G-H3-1 | G-H3-1 | GW-1 | GW-2 | GW-3 | GW-4 | GW-5 | GW-6-12.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 5.0 | 3.0 | 4.0 | 5.0 | 13.5 | 14.0 | 13.0 | 13.5 | 14.5 | 12.5 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/22/2024 | 5/21/2024 | 5/23/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.33 | <1.29 | <1.27 | <1.49 | <1.16 | <1.37 | <1.32 | <1.34 | <1.28 | **343** |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | **325** | **310** | **17.8** | **22.3 J6** | **6.68** | <162 | <0.922 | <0.931 | <0.905 | **17.6** |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **2,390** | **2,280 J-** | **57.2** | **42.6 J3J6-** | **25.6** | **936** | <1.67 | <1.69 | <1.64 | <1.56 |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **1,250** | **1,170** | **22** | **20.7** | **13.7** | **1,490** | <1.67 | <1.69 | <1.64 | <1.56 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

RWQCB = Regional Water Quality Control Board.

Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

B = Analyte also detected in the laboratory blank.

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

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

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Q = Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should beconsidered minimum values.

T8 = Sample received past/too close to holding time expiration.

V = The sample concentration is too high to evaluate accurate spike recoveries.

- = Result biased low due to laboratory quality assurance/quality control issues

+ = Result biased high due to laboratory quality assurance/quality control issues

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | GW-6-17.5 | P-01 | P-01 | P-02 | P-06 | P-08 | P-10 | P-11-12.5 | SVP-06-8 | SVP-10-8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 17.5 | 16.0 | 16.5 | 12.5 | 5.0 | 5.0 | 18.5 | 12.5 | 5.0 | 5.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/22/2024 | 5/24/2024 | 5/28/2024 | 5/29/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | **15.3** | **209** | **2,340** | <1.33 | **5.01 B** | <1.34 | <1.2 | <1.13 | <1.35 | **152** |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <0.859 | **169** | **37.6** | <0.932 | **229** | <0.921 | <0.874 | <0.848 | <1.89 | <0.953 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | <1.56 | **15.6** | <1.62 | <1.69 | **1,340** | **5.88** | <1.59 | <1.54 | <3.42 | <1.73 |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | <1.56 | **11** | <1.62 | <1.69 | **936** | <1.67 | <1.59 | <1.54 | <3.42 | <1.73 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

RWQCB = Regional Water Quality Control Board.

Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

B = Analyte also detected in the laboratory blank.

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

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

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Q = Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should beconsidered minimum values.

T8 = Sample received past/too close to holding time expiration.

V = The sample concentration is too high to evaluate accurate spike recoveries.

- = Result biased low due to laboratory quality assurance/quality control issues

+ = Result biased high due to laboratory quality assurance/quality control issues

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | SVP-25-8 | SVP-36-5 | SVP-36-8 | SVP-45-8 | SVP-53-S | SVP-57-S | SVP-61-4 | SVP-62-4 | UC-A2-1 | UC-A2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 8.0 | 5.0 | 8.0 | 5.0 | 4.0 | 6.0 | 4.0 | 4.0 | 3.0 | 5.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/29/2024 | 5/29/2024 | 5/29/2024 | 5/28/2024 | 5/24/2024 | 5/24/2024 | 5/29/2024 | 5/29/2024 | 5/20/2024 | 5/20/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.35 | **303** | **486** | **4.27 B** | **4.42 B** | **97.2** | <1.19 | **30.6** | <1.07 | <1.44 |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <0.954 | **3,510** | **681** | <4.38 | <47.7 | **7,040** | <0.886 | **5.91** | <16.6 | <0.979 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | <1.73 | **7,590** | **1,410** | **62.1** | **456** | **5,040** | **8.94** | **23.9** | **165** | **8.16** |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | <1.73 | **2,110** | **349** | **55.3** | **311** | **2540** | <1.61 | **9.42** | **286** | **8.82** |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

RWQCB = Regional Water Quality Control Board.

Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

B = Analyte also detected in the laboratory blank.

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

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J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Q = Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should beconsidered minimum values.

T8 = Sample received past/too close to holding time expiration.

V = The sample concentration is too high to evaluate accurate spike recoveries.

- = Result biased low due to laboratory quality assurance/quality control issues

+ = Result biased high due to laboratory quality assurance/quality control issues

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 6. Summary of Total Petroleum Hydrocarbons in Soil. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 RWQCB | 2019 RWQCB | UC-A3-1 | UC-A3-1 | UC-B4-2 | UC-B4-2 | UC-H1-1 | UC-H1-1 | UC-H1-1 | UC-H1-1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Direct Contact | Direct Contact | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 4.0 | 5.0 | 8.0 |
| Sample Date | Construction Worker ESLs[1] | Commercial / Industrial ESLs[1] | 5/20/2024 | 5/20/2024 | 5/23/2024 | 5/23/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 | 5/30/2024 |
| **PETROLEUM HYDROCARBONS - 8015 (mg/kg)** | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 1.8E+03 | 2.0E+03 | <1.15 | <1.47 | **8.1 B** | <1.09 | <1.44 | **6.15 B** | **7.13** | **10 B** |
| TPH-d C12-C22 Hydrocarbons | 1.1E+03 | 1.2E+03 | <33.8 | **5.99** | **16.1** | <0.844 | <0.993 | <0.974 | <0.953 | <0.959 |
| TPH-d C22-C32 Hydrocarbons | 1.1E+03 | 1.2E+03 | **553** | **8.74** | **93.9** | **9.75** | **13.2 J-** | <1.77 | <1.73 | <1.74 |
| TPH-mo C32-C40 Hydrocarbons | 5.4E+04 | 1.8E+05 | **691** | <1.68 | **72.2** | **6.53** | **11.4** | <1.77 | <1.73 | <1.74 |

**Notes:**

Yellow shaded concentrations exceed the Construction Worker ESLs.

Boxed concentrations exceed the Commercial/Industrial ESLs.

< = Not detected at or above method detection limit.

— = Sample not analyzed.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

ft bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

RWQCB = Regional Water Quality Control Board.

Total Petroleum Hydrocarbons analyzed be United States Environmental Protection Agency (EPA) Method 8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

B = Analyte also detected in the laboratory blank.

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

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

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Q = Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should beconsidered minimum values.

T8 = Sample received past/too close to holding time expiration.

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- = Result biased low due to laboratory quality assurance/quality control issues

+ = Result biased high due to laboratory quality assurance/quality control issues

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.

**Table 7. Summary of Total Metals in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID | | | GW-1-1 | GW-2-1 | GW-2-2 | DUP-2[3] | GW-3-1 | GW-3-2 | GW-4-1 | GW-4-2 | GW-5-1 | GW-5-2 | GW-6-1 | GW-6-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | | | 1st | 1st | 2nd | 2nd | 1st | 2nd | 1st | 2nd | 1st | 2nd | 1st | 2nd |
| Sample Date | California | EPA | 5/23/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/21/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 |
| Sample Interval (ft bgs) | MCL[2] | MCL[2] | 13 - 13.5 | 13 - 13.5 | 18 - 25 | 18 - 25 | 12.5 - 15 | 18.5 - 20 | 13.5 - 14 | 22 - 23 | 10 - 14.5 | 20.5 - 25 | 17 - 18 | 21 - 22.5 |
| **METALS - 6020 (µg/l)** | | | | | | | | | | | | | | |
| Antimony | 6.0E+00 | 6.0E+00 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 |
| Arsenic | 1.0E+01 | 1.0E+01 | **11.6** | **8.59** | **21.1** | **12.7** | **13.9** | **3.13** | **5.39** | <0.18 | **2.24** | <0.18 | **9.65** | <0.18 |
| Barium | 1.0E+03 | 2.0E+03 | **201** | **384** | **390** | **477** | **1,060** | **237** | **2,610** | **208** | **216** | **138** | **218** | **269** |
| Beryllium | 4.0E+00 | 4.0E+00 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 |
| Cadmium | 5.0E+00 | 5.0E+00 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | **4.81** | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Chromium | 5.0E+01 | 1.0E+02 | **11.5 J** | **24.5 J** | **185** | **100** | **46.6** | **31.4** | **42** | **7** | **17.8** | **10.9 J** | **18.8** | **43.5** |
| Cobalt | NS | NS | **7.26** | **13.6** | **21.7** | **42** | **20.8** | **9.85** | **14.1** | **4.54** | **12.5** | **13.9** | **7.96** | **33.6** |
| Copper | NS | 1.3E+03 | **26.4** | **92** | **86.3** | **119** | **47.2** | **22.1** | **194** | **7.73** | **30.7** | **13** | **23.8** | **36.4** |
| Lead | NS | 1.5E+01 | **11.6** | **38.1** | **11.2** | **24.5** | **88.4** | **7.23** | **35.9** | <0.849 | **8.18** | **3.88** | **5.35** | **7.53** |
| Molybdenum | NS | NS | <0.348 | **14** | **279** | **20.8** | **12.7** | **60.1** | **5.98** | <0.348 | **23** | **13.1** | **17.9** | <0.348 |
| Nickel | 1.0E+02 | NS | **23** | **43.7** | **135** | **171** | **69.4** | **50.3** | **66.6** | **19.7** | **86.9** | **33.7** | **41.1** | **131** |
| Selenium | 5.0E+01 | 5.0E+01 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Silver | NS | 1.0E+02 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 |
| Thallium | 2.0E+00 | 2.0E+00 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 |
| Vanadium | NS | NS | **20.3** | **42.9** | **63.2** | **141** | **51.5** | **30.1** | **54.4** | **13.3** | **24.4** | **22.9** | **27.2** | **58** |
| Zinc | NS | 5.0E+03 | **36 J** | **81.6 J** | **427** | **253** | **659** | **170** | **276** | <3.02 | **49.2** | **54.4 J** | **65.6** | **118** |
| **METALS - 7470A (µg/l)** | | | | | | | | | | | | | | |
| Mercury | 2.0E+00 | 2.0E+00 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.494 J** | <0.1 | **0.896** |

**Notes:**

Shaded concentrations exceed the California MCLs.

Boxed concentrations exceed the California and Federal MCLs.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

EB = Equipment Blank.

MCL = Maximum Contaminant Level.

Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

NS = No standard established.

NA = Not applicable.

USEPA = United States Environmental Protection Agency.

µg/l = Micrograms per liter.

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

[1] First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i.e., low permeability silts and clays) separating saturated material.

[2] Title 22 Chapter 12 California and Federal MCLs for Regulated Drinking Water Contaminants. October 2018.

[3] DUP-2 is the duplicate sample of GW-2-2.

[4] DUP-3 is the duplicate of sample P-06.

[5] DUP-1 is the duplicate of sample P-10.

**Table 7. Summary of Total Metals in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID | | | P-01 | P-02 | P-06 | DUP-3[4] | P-08 | P-10 | DUP-1[5] | P-11 | P-12 | EB-052024 | EB-052124 | EB-052224 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | | | 1st | 1st | 1st | 1st | 1st | 1st | 1st | 1st | 1st | NA | NA | NA |
| Sample Date | California | EPA | 5/24/2024 | 5/24/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/23/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 | 5/20/2024 | 5/21/2024 | 5/22/2024 |
| Sample Interval (ft bgs) | MCL[2] | MCL[2] | 16 - 17.5 | 12.5 - 13 | 5 - 6.5 | 5 - 6.5 | 5 - 10 | 18.5 - 20 | 18.5 - 20 | 12 - 13.5 | 5 - 8.5 | NA | NA | NA |
| **METALS - 6020 (µg/l)** | | | | | | | | | | | | | | |
| Antimony | 6.0E+00 | 6.0E+00 | <1.03 | <1.03 | <1.03 | <1.03 | **39.3** | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 |
| Arsenic | 1.0E+01 | 1.0E+01 | **30.6** | **10.6** | **7.22** | **7.69** | **11.8** | **3.82** | **3.76** | **4.56** | **5.41** | <0.18 | <0.18 | <0.18 |
| Barium | 1.0E+03 | 2.0E+03 | **255** | **316** | **68.9** | **47.7** | **209** | **742** | **784** | **438** | **203** | <0.381 | **5.29** | <0.381 |
| Beryllium | 4.0E+00 | 4.0E+00 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | **8.59** | **9.33** | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 |
| Cadmium | 5.0E+00 | 5.0E+00 | <0.15 | <0.15 | <0.15 | <0.15 | **53.3** | **2.22** | **2.74** | **6.1** | <0.15 | <0.15 | <0.15 | <0.15 |
| Chromium | 5.0E+01 | 1.0E+02 | **5.13** | **28.6** | **16.4** | **9.6** | **67.1** | **50.7 J** | **37.8 J** | **32.4** | **30.2** | <1.24 | <1.24 | <1.24 |
| Cobalt | NS | NS | **3.85** | **12.6** | **2.55** | <0.0596 | **16.2** | **167** | **197** | **25.3** | **10.6** | <0.0596 | <0.0596 | <0.0596 |
| Copper | NS | 1.3E+03 | **12.8** | **26.8** | **17.1** | **10.6** | **309** | **100** | **83.7** | **55.4** | **46.6** | <1.51 | <1.51 | <1.51 |
| Lead | NS | 1.5E+01 | **5.68** | **8.39** | **7.6** | **5.01** | **9,470** | **37.4** | **31.7** | **97.6** | **75.1** | <0.849 | <0.849 | <0.849 |
| Molybdenum | NS | NS | **14.8** | **8.67** | **23.1** | **20.1** | <0.348 | <0.348 | <0.348 | <0.348 | **49.2** | <0.348 | <0.348 | <0.348 |
| Nickel | 1.0E+02 | NS | **11** | **51.9** | **16.4** | **9.67** | **84.3** | **330** | **364** | **98.8** | **55.9** | <0.816 | <0.816 | <0.816 |
| Selenium | 5.0E+01 | 5.0E+01 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Silver | NS | 1.0E+02 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 |
| Thallium | 2.0E+00 | 2.0E+00 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 |
| Vanadium | NS | NS | **6.09** | **39.6** | **52.3** | **35.7** | **67.2** | **121** | **117** | **47.8** | **32.6** | <0.664 | <0.664 | <0.664 |
| Zinc | NS | 5.0E+03 | **51.2** | **82.9** | **31.5** | <3.02 | **7,100** | **223 J** | **182 J** | **525** | **109** | <3.02 | <3.02 | <3.02 |
| **METALS - 7470A (µg/l)** | | | | | | | | | | | | | | |
| Mercury | 2.0E+00 | 2.0E+00 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **1.32 J** | **1.68 J** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

**Notes:**

Shaded concentrations exceed the California MCLs.

Boxed concentrations exceed the California and Federal MCLs.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

EB = Equipment Blank.

MCL = Maximum Contaminant Level.

Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

NS = No standard established.

NA = Not applicable.

USEPA = United States Environmental Protection Agency.

µg/l = Micrograms per liter.

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

[1] First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i.e., low permeability silts and clays) separating saturated material.

[2] Title 22 Chapter 12 California and Federal MCLs for Regulated Drinking Water Contaminants. October 2018.

[3] DUP-2 is the duplicate sample of GW-2-2.

[4] DUP-3 is the duplicate of sample P-06.

[5] DUP-1 is the duplicate of sample P-10.

**Table 7. Summary of Total Metals in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID | | | EB-052324 | EB-052424 | EB-052824 | EB-052924 | EB-053024 |
|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | | | NA | NA | NA | NA | NA |
| Sample Date | California | EPA | 5/23/2024 | 5/24/2024 | 5/28/2024 | 5/29/2024 | 5/30/2024 |
| Sample Interval (ft bgs) | MCL[2] | MCL[2] | NA | NA | NA | NA | NA |
| **METALS - 6020 (µg/l)** | | | | | | | |
| Antimony | 6.0E+00 | 6.0E+00 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 |
| Arsenic | 1.0E+01 | 1.0E+01 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 |
| Barium | 1.0E+03 | 2.0E+03 | <0.381 | <0.381 | <0.381 | **2.95** | <0.381 |
| Beryllium | 4.0E+00 | 4.0E+00 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 |
| Cadmium | 5.0E+00 | 5.0E+00 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Chromium | 5.0E+01 | 1.0E+02 | <1.24 | <1.24 | <1.24 | <1.24 | <1.24 |
| Cobalt | NS | NS | <0.0596 | <0.0596 | <0.0596 | <0.0596 | <0.0596 |
| Copper | NS | 1.3E+03 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 |
| Lead | NS | 1.5E+01 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 |
| Molybdenum | NS | NS | <0.348 | <0.348 | <0.348 | <0.348 | <0.348 |
| Nickel | 1.0E+02 | NS | <0.816 | <0.816 | <0.816 | <0.816 | <0.816 |
| Selenium | 5.0E+01 | 5.0E+01 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Silver | NS | 1.0E+02 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 |
| Thallium | 2.0E+00 | 2.0E+00 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 |
| Vanadium | NS | NS | <0.664 | <0.664 | <0.664 | <0.664 | <0.664 |
| Zinc | NS | 5.0E+03 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 |
| **METALS - 7470A (µg/l)** | | | | | | | |
| Mercury | 2.0E+00 | 2.0E+00 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

**Notes:**

Shaded concentrations exceed the California MCLs.

Boxed concentrations exceed the California and Federal MCLs.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

EB = Equipment Blank.

MCL = Maximum Contaminant Level.

Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

NS = No standard established.

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µg/l = Micrograms per liter.

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[1] First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i.e., low permeability silts and clays) separating saturated material.

[2] Title 22 Chapter 12 California and Federal MCLs for Regulated Drinking Water Contaminants. October 2018.

[3] DUP-2 is the duplicate sample of GW-2-2.

[4] DUP-3 is the duplicate of sample P-06.

[5] DUP-1 is the duplicate of sample P-10.

**Table 8. Summary of Dissolved Metals in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID | | | GW-1-1 | GW-2-1 | GW-2-2 | DUP-2[3] | GW-3-1 | GW-3-2 | GW-4-1 | GW-4-2 | GW-5-1 | GW-5-2 | GW-6-1 | GW-6-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | | | 1st | 1st | 2nd | 2nd | 1st | 2nd | 1st | 2nd | 1st | 2nd | 1st | 2nd |
| Sample Date | California | EPA Federal | 5/23/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/21/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 |
| Sample Interval (ft bgs) | MCL[2] | MCL[2] | 13 - 13.5 | 13 - 13.5 | 18 - 25 | 18 - 25 | 12.5 - 15 | 18.5 - 20 | 13.5 - 14 | 22 - 23 | 10 - 14.5 | 20.5 - 25 | 17 - 18 | 21 - 22.5 |
| **METALS - 6010B (µg/l)** | | | | | | | | | | | | | | |
| Barium,Dissolved | 1.0E+03 | 2.0E+03 | **217** | **195** | **66.6** | **66.1** | **95.9** | **122** | **124** | **139** | **74.8** | **60.6** | **117** | **72.3** |
| Beryllium,Dissolved | 4.0E+00 | 4.0E+00 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 |
| Chromium,Dissolved | 5.0E+01 | 1.0E+02 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Cobalt,Dissolved | NS | NS | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 |
| Molybdenum,Dissolved | NS | NS | **5.52** | **56.9** | **86.7** | **75.6** | **21.2** | **45.7** | **9.53** | **7.63** | **75.6** | **48.1** | **34.6** | **40.3** |
| Vanadium,Dissolved | NS | NS | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 |
| **METALS - 6020 (µg/l)** | | | | | | | | | | | | | | |
| Antimony,Dissolved | 6.0E+00 | 6.0E+00 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 |
| Arsenic,Dissolved | 1.0E+01 | 1.0E+01 | **18.5** | **13.1** | **8.66** | **8.4** | **3.52** | <0.18 | **2.26** | <0.18 | **2.13** | <0.18 | **13.7** | <0.18 |
| Cadmium,Dissolved | 5.0E+00 | 5.0E+00 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Copper,Dissolved | NS | 1.3E+03 | <1.51 | **6.36** | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 | **6.65** | <1.51 | <1.51 | <1.51 |
| Lead,Dissolved | NS | 1.5E+01 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 |
| Nickel,Dissolved | 1.0E+02 | NS | **4.62** | **7.36** | **3.46** | **3.43** | **11.1** | **10** | **7.78** | **7.09** | **43.3** | **7.62** | **12.8** | **28.1** |
| Selenium,Dissolved | 5.0E+01 | 5.0E+01 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Silver,Dissolved | NS | 1.0E+02 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 |
| Thallium,Dissolved | 2.0E+00 | 2.0E+00 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 |
| Zinc,Dissolved | NS | 5.0E+03 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 |
| **METALS - 7470A (µg/l)** | | | | | | | | | | | | | | |
| Mercury,Dissolved | 2.0E+00 | 2.0E+00 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 J6 | <0.1 J6 | <0.1 | <0.1 | <0.1 J6O1- |

**Notes:**

Yellow shaded concentrations exceed the California MCLs.

Boxed concentrations exceed the Federal MCLs.

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Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

NA = Not applicable.

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µg/l = Micrograms per liter.

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

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.matrix interference.

J6 = The sample matrix interfered with the ability to make an accurate determination; spike value is low.

- = Result biased low due to laboratory quality assurance/quality control issues.

[1]First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i,e., low permeability silts and clays) separating saturated material.

[2]Title 22 Chapter 12 California and Federal MCLs for Regulated Drinking Water Contaminants. October 2018.

[3]DUP-2 is the duplicate sample of GW-2-2.

[4]DUP-3 is the duplicate of sample P-06.

[5]DUP-1 is the duplicate of sample P-10.

**Table 8. Summary of Dissolved Metals in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID | | | P-01 | P-02 | P-06 | DUP-3[4] | P-08 | P-10 | DUP-1[5] | P-11 | P-12 | EB-052324 | EB-052824 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | | | 1st | 1st | 1st | 1st | 1st | 1st | 1st | 1st | 1st | NA | NA |
| Sample Date | California | EPA Federal | 5/24/2024 | 5/24/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/23/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 | 5/23/2024 | 5/28/2024 |
| Sample Interval (ft bgs) | MCL[2] | MCL[2] | 16 - 17.5 | 12.5 - 13 | 5 - 6.5 | 5 - 6.5 | 5 - 10 | 18.5 - 20 | 18.5 - 20 | 12 - 13.5 | 5 - 8.5 | NA | NA |
| **METALS - 6010B (µg/l)** | | | | | | | | | | | | | |
| Barium,Dissolved | 1.0E+03 | 2.0E+03 | **218** | **192** | **21.4** | **22.2** | **91.2 O1** | **50** | **47.1** | **105** | **87.6** | <0.736 | <0.736 |
| Beryllium,Dissolved | 4.0E+00 | 4.0E+00 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 |
| Chromium,Dissolved | 5.0E+01 | 1.0E+02 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Cobalt,Dissolved | NS | NS | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 |
| Molybdenum,Dissolved | NS | NS | **13.4** | **17.5** | **27.7** | **27.1** | **28.1** | **25.4** | **25** | **17.8** | **102** | <1.16 | <1.16 |
| Vanadium,Dissolved | NS | NS | <4.99 | <4.99 | **24.2** | **21.8** | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 | <4.99 |
| **METALS - 6020 (µg/l)** | | | | | | | | | | | | | |
| Antimony,Dissolved | 6.0E+00 | 6.0E+00 | <1.03 | <1.03 | <1.03 | <1.03 | **39.2** | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 | <1.03 |
| Arsenic,Dissolved | 1.0E+01 | 1.0E+01 | **29.3** | **6.96** | **8.01** | **7.85** | **5.51** | <0.18 | <0.18 | <0.18 | **4.16** | <0.18 | <0.18 |
| Cadmium,Dissolved | 5.0E+00 | 5.0E+00 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | **5.17** | <0.15 | <0.15 | <0.15 |
| Copper,Dissolved | NS | 1.3E+03 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 | <1.51 |
| Lead,Dissolved | NS | 1.5E+01 | **2.22** | <0.849 | <0.849 | <0.849 | **2.65** | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 | <0.849 |
| Nickel,Dissolved | 1.0E+02 | NS | **5.26** | **8.07** | <0.816 | <0.816 | **12.4** | **5.66** | **4.3** | **4.45** | **7.11** | <0.816 | <0.816 |
| Selenium,Dissolved | 5.0E+01 | 5.0E+01 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Silver,Dissolved | NS | 1.0E+02 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 |
| Thallium,Dissolved | 2.0E+00 | 2.0E+00 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 | <0.121 |
| Zinc,Dissolved | NS | 5.0E+03 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 | <3.02 |
| **METALS - 7470A (µg/l)** | | | | | | | | | | | | | |
| Mercury,Dissolved | 2.0E+00 | 2.0E+00 | <0.1 | <0.1 | <0.1 J- | <0.1 J- | <0.1 J- | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 J- |

**Notes:**

Yellow shaded concentrations exceed the California MCLs.

Boxed concentrations exceed the Federal MCLs.

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**Bold** = Detected concentration.

MCL = Maximum Contaminant Level.

Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

NA = Not applicable.

NS = No standard established.

USEPA = United States Environmental Protection Agency.

µg/l = Micrograms per liter.

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

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference,matrix interference.

J6 = The sample matrix interfered with the ability to make an accurate determination; spike value is low.

- = Result biased low due to laboratory quality assurance/quality control issues.

[1]First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i.e., low permeability silts and clays) separating saturated material.

[2]Title 22 Chapter 12 California and Federal MCLs for Regulated Drinking Water Contaminants. October 2018.

[3]DUP-2 is the duplicate sample of GW-2-2.

[4]DUP-3 is the duplicate of sample P-06.

[5]DUP-1 is the duplicate of sample P-10.

**Table 8. Summary of Dissolved Metals in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Encountered Water-Bearing Zone[1]<br>Sample Date<br>Sample Interval (ft bgs) | California MCL[2] | EPA Federal MCL[2] |
|---|---|---|
| **METALS - 6010B (µg/l)** | | |
| Barium,Dissolved | 1.0E+03 | 2.0E+03 |
| Beryllium,Dissolved | 4.0E+00 | 4.0E+00 |
| Chromium,Dissolved | 5.0E+01 | 1.0E+02 |
| Cobalt,Dissolved | NS | NS |
| Molybdenum,Dissolved | NS | NS |
| Vanadium,Dissolved | NS | NS |
| **METALS - 6020 (µg/l)** | | |
| Antimony,Dissolved | 6.0E+00 | 6.0E+00 |
| Arsenic,Dissolved | 1.0E+01 | 1.0E+01 |
| Cadmium,Dissolved | 5.0E+00 | 5.0E+00 |
| Copper,Dissolved | NS | 1.3E+03 |
| Lead,Dissolved | NS | 1.5E+01 |
| Nickel,Dissolved | 1.0E+02 | NS |
| Selenium,Dissolved | 5.0E+01 | 5.0E+01 |
| Silver,Dissolved | NS | 1.0E+02 |
| Thallium,Dissolved | 2.0E+00 | 2.0E+00 |
| Zinc,Dissolved | NS | 5.0E+03 |
| **METALS - 7470A (µg/l)** | | |
| Mercury,Dissolved | 2.0E+00 | 2.0E+00 |

**Notes:**

Yellow shaded concentrations exceed the California MCLs.

Boxed concentrations exceed the Federal MCLs.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

MCL = Maximum Contaminant Level.

Metals analyzed by United States Environmental Protection Agency (EPA) Methods 6020/7471A.

NA = Not applicable.

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µg/l = Micrograms per liter.

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O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference,matrix interference.

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- = Result biased low due to laboratory quality assurance/quality control issues.

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[2]Title 22 Chapter 12 California and Federal MCLs for Regulated Drinking Water Contaminants. October 2018.

[3]DUP-2 is the duplicate sample of GW-2-2.

[4]DUP-3 is the duplicate of sample P-06.

[5]DUP-1 is the duplicate of sample P-10.

**Table 3. Summary of VOCs in Groundwater, AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 | 2019 | GW-1-1 | GW-3-1 | GW-2-2 | DUP-2[6] | GW-3-1 | GW-3-2 | GW-4-1 | GW-4-2 | GW-5-1 | GW-5-2 | GW-6-1 | GW-6-2 | P-01 | P-02 | P-06 | DUP-3[7] | P-09 | P-10 | DUP-1[8] | P-11 | P-12 | EB-052024 | EB-052124 | EB-052224 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | Direct Exposure MCL | Commercial/Industrial | 1st | 1st | 2nd | 2nd | 1st | 2nd | 1st | 2nd | 1st | 2nd | 1st | 2nd | 1st | 1st | 1st | 1st | 1st | 1st | 1st | 1st | 1st | NA | NA | NA |
| Sample Date | Exposure ESL[2] | Groundwater VI | 5/23/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/23/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/24/2024 | 5/28/2024 | 5/28/2024 | 5/28/2024 | 5/23/2024 | 5/23/2024 | 5/23/2024 | 5/24/2024 | 5/24/2024 | 5/28/2024 | 5/21/2024 | 5/22/2024 |
| Sample Interval (ft bgs) | Priority ESL[3] | Minimum Value[4] | 13 - 13.5 | 13 - 13.5 | 18 - 25 | 18 - 25 | 12.5 - 15 | 18.5 - 20 | 13.5 - 14 | 22 - 23 | 10 - 14.5 | 20.5 - 25 | 17 - 19 | 21 - 22.5 | 16 - 17.5 | 12.5 - 13 | 5 - 6.5 | 5 - 6.5 | 5 - 10 | 18.5 - 20 | 18.5 - 20 | 12 - 13.5 | 5 - 6.5 | NA | NA | NA |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (µg/l)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5.7E-01 | 1.7E+01 | <0.147 | <0.147 | <2.94 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <3.68 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 |
| 1,1,1-Trichloroethane | 2.0E+02 | 8.3E+03 | <0.149 | <0.149 | <2.98J3 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <3.73J3 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 |
| 1,1,2,2-Tetrachloroethane | 1.0E+00 | 1.4E+01 | <0.133 | <0.133 | <2.66 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <3.33 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 |
| 1,1,2-Trichloroethane | 5.0E+00 | 2.3E+01 | <0.158 | <0.158 | <3.15J3 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <3.95J3 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | <0.18 | <0.18 | <3.6J3 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <4.5J3 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 |
| 1,1-Dichloroethane | 5.0E+00 | 5.3E+01 | **1.27** | <0.1 | <2 | **3.85** | **2.81** | **4.75** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <2.5 | <0.1 | **2.82** | **2.81** | **8.04** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1,1-Dichloroethene | 5.0E+00 | 2.8E+02 | <0.188 | <0.188 | <3.76 | **1.07** | **108** | **315** | <0.188 | <0.188 | <0.188 | <0.188 | <0.188 | <0.188 | <4.7 | **1.8** | <0.188 | <0.188 | <0.188 | <0.188 | <0.188 | <0.188 | <0.188 | <0.188 | <0.188 | <0.188 |
| 1,1-Dichloropropene | NS | NS | <0.142 | <0.142 | <2.84 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <3.55 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 |
| 1,2,3-Trichlorobenzene | NS | NS | <0.23 | <0.23 | <4.6 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <5.75 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 |
| 1,2,3-Trichloropropane | 5.0E-03 | 9.4E+01 | <0.237 | <0.237 | <4.74 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <5.93 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 |
| 1,2,3-Trimethylbenzene | NS | NS | <0.104 | <0.104 | <2.08 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | **9.7** | <0.104 | **63.4** | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 |
| 1,2,4-Trichlorobenzene | 5.0E+00 | 1.5E+02 | <0.481 | <0.481 | <9.62 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <12 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 |
| 1,2,4-Trimethylbenzene | NS | NS | <0.322 | <0.322 | <6.44 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <8.05 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 |
| 1,2-Dibromo-3-Chloropropane | 2.9E-01 | 3.4E-01 | <0.276 | <0.276 | <5.52 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <6.9 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 |
| 1,2-Dibromoethane | 5.0E-02 | 7.6E-01 | <0.126 | <0.126 | <2.52 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <3.15 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 |
| 1,2-Dichlorobenzene | 1.0E+02 | 1.1E+04 | <0.107 | <0.107 | <2.14 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <2.68 | <0.107 | **2.04** | **1.9** | **1.41** | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 |
| 1,2-Dichloroethane | 5.0E-01 | 3.8E+00 | <0.0819 | <0.0819 | <1.64 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <2.05 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 |
| 1,2-Dichloropropane | 5.0E-00 | 1.0E+01 | <0.149 | <0.149 | <2.98 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <3.73 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 |
| 1,3,5-Trimethylbenzene | NS | NS | <0.104 | <0.104 | <2.08 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <2.6 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 |
| 1,3-Dichlorobenzene | 6.0E+02 | NS | <0.11 | <0.11 | <2.2 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <2.75 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 |
| 1,3-Dichloropropane | NS | NS | <0.11 | <0.11 | <2.2 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <2.75 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 |
| 1,4-Dichlorobenzene | 5.0E+00 | 1.1E+01 | <0.12 | <0.12 | <2.4 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <3 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 |
| 2,2-Dichloropropane | NS | NS | <0.161 | <0.161 | <3.22J3 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <4.03J3 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 |
| 2-Butanone (MEK) | 5.6E+05 | 9.5E+06 | <1.19 | <1.19 | <23.8 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <29.8 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 |
| 2-Chlorotoluene | NS | NS | <0.105 | <0.105 | <2.12 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <2.63 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 |
| 4-Bromofluorobenzene | NS | NS | **15.2** | **16.1** | <3.22J3 | **15.9** | **16.1** | **16.4** | **16.1** | **16.3** | **17.5** | **15.5** | **15.2** | **15.3** | **16.1** | **16.4** | **17.8** | **17.7** | **15.8** | **15.8** | **16.4** | **16.1** | **17.4** | **17.2** | **17.7** | |
| 4-Chlorotoluene | NS | NS | <0.114 | <0.114 | <2.28 | <0.114J4 | <0.114J4 | <0.114J4 | <0.114J4 | <0.114J4 | <0.114 | <0.114 | <0.114J4 | <0.114J4 | <2.85 | <0.114J4 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114J4 | <0.114J4 | <0.114 | <0.114 | <0.114 |
| 4-Methyl-2-pentanone (MIBK) | 1.2E+02 | 2.3E+06 | <0.478 | <0.478 | <9.56 | <0.478 | <0.478 | <0.479 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <12 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 |
| Acetone | 1.4E+04 | 9.7E+07 | <11.3 | <11.3 | <226 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <282 | <11.3 | <11.3J3 | <11.3J3 | <11.3J3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 |
| Acrolein | NS | NS | <2.54 | <2.54 | <50.8 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <63.5 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 |
| Acrylonitrile | NS | NS | <0.671 | <0.671 | <13.4 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <16.8 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 |
| Benzene | 1.0E+00 | 1.8E+00 | <0.0941 | <0.0941 | <1.88 | <0.0941 | <0.0941 | <0.0941 | <0.0941 | <0.0941 | <0.0941 | <0.0941 | **13** | <0.0941 | **881 J3** | <0.0941 | <0.0941 | <0.0941 | **2.45** | <0.0941 | <0.0941 | <0.0941J3 | <0.0941 | <0.0941 | <0.0941 | <0.0941 |
| Bromobenzene | NS | NS | <0.118 | <0.118 | <2.36 | <0.118J4 | <0.118J4 | <0.118J4 | <0.118J4 | <0.118J4 | <0.118 | <0.118 | <0.118J4 | <0.118J4 | <2.95 | <0.118J4 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118J4 | <0.118J4 | <0.118 | <0.118 | <0.118 |
| Bromodichloromethane | 8.8E+01 | 3.8E+00 | <0.136 | <0.136 | <2.72 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <3.4 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 |
| Bromoform | 8.5E+01 | 5.1E+02 | <0.129 | <0.129 | <2.58J3,J4 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <3.22J3,J4 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 |
| Bromomethane | 7.5E+00 | 7.3E+01 | <0.605 | <0.605 | <12.1 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <15.1 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 | <0.605 |
| Carbon tetrachloride | 5.0E-01 | 1.9E+00 | <0.128 | <0.128 | <2.55 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <3.2 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 |
| Chlorobenzene | 7.0E+01 | 1.7E+03 | <0.116 | <0.116 | <2.32 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <2.9 | <0.116 | **1.54** | **1.34** | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 |
| Chlorodibromomethane | 8.6E+01 | NS | <0.14 | <0.14 | <2.8 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <3.5 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 |
| Chloroethane | 2.1E+04 | 9.7E+04 | <0.192 | <0.192 | <3.84J3 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <4.8J3 | <0.192 | <0.192J3 | <0.192J3 | <0.192J3 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 |
| Chloroform | 8.0E+01 | 3.6E+00 | <0.111 | <0.111 | <2.22 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <2.78 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 |
| Chloromethane | 1.9E+02 | 1.1E+03 | <0.96 | <0.96 | <19.2 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <24 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 |
| cis-1,2-Dichloroethene | 5.0E+00 | 2.1E+02 | <0.126 | <0.126 | <2.52J3 | <0.126 | **1.35** | **2.38** | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <3.15J3 | <0.126 | **179** | **186** | **23.4** | **1.25** | **1.32** | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 |
| cis-1,3-Dichloropropene | NS | NS | <0.111 | <0.111 | <2.22 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <2.78 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 |
| Dibromomethane | NS | NS | <0.122 | <0.122 | <2.44 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <3.05 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 |
| Dichlorodifluoromethane | NS | NS | <0.374 | <0.374 | <7.48J3 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <9.35J3 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 |
| Diisopropyl ether | NS | NS | <0.105 | <0.105 | <2.1J3 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <2.63J3 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 |
| Ethylbenzene | 3.0E+01 | 1.5E+01 | <0.137 | <0.137 | <2.74 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | **5.33** | <0.137 | **1,020** | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 |
| Hexachloro-1,3-butadiene | 1.4E-01 | 1.3E+00 | <0.337 | <0.337 | <6.74 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | **<8.43** | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 |
| Isopropylbenzene | NS | NS | <0.105 | <0.105 | <2.1J3 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | **5.4** | <0.105 | **89 J3** | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 |
| Methyl tert-butyl ether | 5.0E+00 | 2.0E+03 | <0.101 | <0.101 | <2.02 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | **1.03** | <0.101 | <2.53 | <0.101 | <0.101 | <0.101 | **1.84** | **1.88** | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 |
| Methylene Chloride | 5.0E+00 | 9.4E+01 | <0.43 | <0.43 | <8.6 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <10.7 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 |
| Naphthalene | 1.7E-01 | 2.0E+01 | <1 | <1 | <20 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | **5.84** | <1 | **278 J3** | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| n-Butylbenzene | NS | NS | <0.157 | <0.157 | <3.14 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | **37.7** | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157J3 | <0.157 | <0.157 |
| n-Propylbenzene | NS | NS | <0.0993 | <0.0993 | <1.99 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | **6.91** | <0.0993 | **218** | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 |
| p-Isopropyltoluene | NS | NS | <0.12 | <0.12 | <2.4J3 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | **2.55** | <0.12 | <3J3 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 |
| sec-Butylbenzene | NS | NS | <0.125 | <0.125 | <2.5J3 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | **4.29** | <0.125 | <3.13J3 | <0.125 | <0.125 | <0.125 | <0.125 | <0.129 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 |
| Styrene | 1.0E+01 | 3.8E+04 | <0.118 | <0.118 | <2.36 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <2.95 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 |
| tert-Butylbenzene | NS | NS | <0.127 | <0.127 | <2.54 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <3.18 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 |
| Tetrachloroethene | 5.0E+00 | 2.8E+00 | <0.3 | <0.3 | <6 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <7.5 | <0.3 | <0.3 | <0.3 | <0.3 | **5.57** | **6.1** | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Toluene | 4.8E+01 | 9.9E+03 | <0.278 | <0.278 | <5.56J3 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | **1.44** | <0.278 | **76.7 J3** | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 |
| trans-1,2-Dichloroethene | 1.1E+01 | 9.2E+02 | <0.149 | <0.149 | <2.98J3 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <3.73J3 | <0.149 | **3.47** | **3.28** | **1.17** | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 |
| trans-1,3-Dichloropropene | NS | NS | <0.116 | <0.116 | <2.32J4 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <2.95J4 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 |
| Trichloroethene | 5.0E+00 | 7.5E+00 | <0.19 | <0.19 | <3.8 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | **1.95** | <4.75 | <0.19 | **5.18** | **5.13** | <0.19 | **5.29** | **5.42** | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 |
| Trichlorofluoromethane | NS | NS | <0.16 | <0.16 | <3.2J3 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <4J3 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 |
| Vinyl chloride | 5.0E-01 | 1.4E-01 | **2.61** | **1.26** | <4.68 | **47.8** | **6.66** | **7.71** | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <5.85 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 |
| Xylenes, Total | 2.0E+01 | 1.8E+03 | <0.174 | <0.174 | <3.48J3 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <4.35J3 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 |

**Notes:**

Yellow shaded concentrations exceed the ESLs Direct Exposure - MCL Priority.

Boxed concentrations exceed the minimum of the Cancer and Non-Cancer ESLs GW VI – Commercial/Industrial.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

EB = Equipment Blank.

ESL = Environmental screening level.

ft bgs = feet below ground surface.

MCL = Maximum contaminant level.

NA = Not applicable.

NS = No standard established.

TB = Trip Blank.

VI = Vapor Intrusion.

VOC = Volatile organic compound.

VOCs analyzed by Environmental Protection Agency Method 8260B.

µg/l = Micrograms per liter.

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

J = The identification of the analyte is acceptable, the report value is an estimate.

[1] First and second water-bearing zones were identified by Rouse' field geologist based on moisture content observations from drill cuttings and the identification equitards (i.e., low permeability silts and clays) separating saturated material.

[2] San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels (ESLs): Groundwater Direct Exposure, Human Health Risk Levels (Table GW-1), MCL Priority, January 2019.

[3] San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels (ESLs): Groundwater Vapor Intrusion: Human Health Risk Levels (Table GW-3). January 2019.

[4] DUP-2 is the duplicate sample of GW-2-2.

[5] DUP-3 is the duplicate of sample P-06.

[6] DUP-1 is the duplicate of sample P-10.

**Table 9. Summary of VOCs in Groundwater, AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 | 2019 | EB-052324 | EB-052424 | EB-052824 | EB-052924 | EB-053024 | TB-053024 | TB-01-052124 | TB-2-052124 | TB-052224 | TB-052324 | TB-052424 | TB-052824 | TB-052924 | TB-053024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | Direct | Commercial/Industrial | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sample Date | Exposure MCL | Groundwater VI | 5/23/2024 | 5/24/2024 | 5/28/2024 | 5/29/2024 | 5/30/2024 | 5/30/2024 | 5/21/2024 | 5/21/2024 | 5/22/2024 | 5/23/2024 | 5/24/2024 | 5/28/2024 | 5/29/2024 | 5/30/2024 |
| Sample Interval (ft bgs) | Priority ESL[2] | Minimum Value[3] | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VOLATILE ORGANIC COMPOUNDS - 8260B (µg/l)** | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5.7E-01 | 1.7E+01 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 | <0.147 |
| 1,1,1-Trichloroethane | 2.8E+02 | 6.9E+03 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 |
| 1,1,2,2-Tetrachloroethane | 1.0E+00 | 1.4E+01 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 |
| 1,1,2-Trichloroethane | 5.0E+00 | 2.3E+01 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 | <0.158 |
| 1,1,2-Trichlorotrifluoroethane | NS | NS | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 |
| 1,1-Dichloroethane | 5.0E+00 | 5.3E+01 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1,1-Dichloroethene | 6.0E+00 | 2.8E+02 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 | <0.186 |
| 1,1-Dichloropropene | NS | NS | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 | <0.142 |
| 1,2,3-Trichlorobenzene | NS | NS | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 |
| 1,2,3-Trichloropropane | 5.0E-03 | 9.4E+01 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 | <0.237 |
| 1,2,4-Trimethylbenzene | NS | NS | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 |
| 1,2,4-Trichlorobenzene | 5.0E+00 | 1.5E+02 | <0.481 | <0.461 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 | <0.461 | <0.481 | <0.481 | <0.481 | <0.481 | <0.481 |
| 1,2,4-Trimethylbenzene | NS | NS | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 | <0.322 |
| 1,2-Dibromo-3-Chloropropane | 2.0E-01 | 3.4E-01 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 | <0.278 | <0.276 | <0.276 | <0.276 | <0.276 | <0.276 |
| 1,2-Dibromoethane | 5.0E-03 | 7.5E-01 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 |
| 1,2-Dichlorobenzene | 1.5E+02 | 1.1E+04 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 | <0.107 |
| 1,2-Dichloroethane | 5.0E-01 | 9.8E+00 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 | <0.0819 |
| 1,2-Dichloropropane | 5.0E+00 | 1.0E+01 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 |
| 1,3,5-Trimethylbenzene | NS | NS | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 | <0.104 |
| 1,3-Dichlorobenzene | 5.0E+02 | NS | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 |
| 1,3-Dichloropropane | NS | NS | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 |
| 1,4-Dichlorobenzene | 5.0E+00 | 1.1E+01 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.13 | <0.12 | <0.12 | <0.12 |
| 2,2-Dichloropropane | NS | NS | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 | <0.161 |
| 2-Butanone (MEK) | 5.6E+03 | 8.5E+05 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 | <1.19 |
| 2-Chlorotoluene | NS | NS | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 | <0.106 |
| 4-Bromofluorobenzene | NS | NS | 15.7 | 15.8 | 17.8 | 17 | 15.4 | 16.4 | 17.8 | 17.7 | 17.8 | 18.4 | 16.8 | 17.8 | 16.7 | 15.2 |
| 4-Chlorotoluene | NS | NS | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 | <0.114 |
| 4-Methyl-2-pentanone (MIBK) | 1.2E+02 | 2.5E+05 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 | <0.478 |
| Acetone | 1.4E+04 | 9.7E+07 | <11.3 | <11.3 | <11.3J3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3 | <11.3J3 | <11.3 | <11.3 |
| Acrolein | NS | NS | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 | <2.54 |
| Acrylonitrile | NS | NS | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 | <0.671 |
| Benzene | 1.0E+00 | 1.8E+05 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 | <0.0841 |
| Bromobenzene | NS | NS | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 |
| Bromodichloromethane | 8.0E+01 | 3.8E+03 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 | <0.136 |
| Bromoform | 8.5E+01 | 8.1E+02 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 | <0.126 | <0.129 | <0.129 | <0.129 | <0.129 | <0.129 |
| Bromomethane | 7.3E+00 | <5.805J4 | <0.805 | <5.805J4 | <0.805 | <0.805 | <0.805 | <0.805 | <0.805 | <0.805 | <0.805 | <0.805 | <5.805J4 | <0.805 | <0.805 | <0.805 |
| Carbon tetrachloride | 5.0E-01 | 1.9E+00 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 | <0.128 |
| Chlorobenzene | 7.0E+01 | 1.7E+03 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 | <0.116 |
| Chlorodibromomethane | 8.0E+01 | NS | <0.14 | <0.14 | <0.14 | <0.14 | <0.1404 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14J4 |
| Chloroethane | 2.1E+04 | 9.7E+04 | <0.192 | <0.192 | <0.192J3 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192 | <0.192J3 | <0.192 | <0.192 |
| Chloroform | 8.0E+01 | 3.6E+00 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 |
| Chloromethane | 1.9E+02 | 1.1E+03 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 |
| cis-1,2-Dichloroethene | 8.5E+00 | 2.1E+02 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 | <0.126 |
| cis-1,3-Dichloropropene | NS | NS | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 | <0.111 |
| Dibromomethane | NS | NS | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 | <0.122 |
| Dichlorodifluoromethane | NS | NS | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 | <0.374 |
| Di-isopropyl ether | NS | NS | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 |
| Ethylbenzene | 3.0E+01 | 1.0E+01 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.137 | <0.133 | <0.137 | <0.137 | <0.137 | <0.137 |
| Hexachloro-1,3-butadiene | 1.4E-01 | 1.3E+00 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 | <0.337 |
| Isopropylbenzene | NS | NS | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 | <0.105 |
| Methyl tert-butyl ether | 5.0E+00 | 2.0E+03 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 | <0.101 |
| Methylene Chloride | 5.0E+00 | 8.4E+01 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 |
| Naphthalene | 1.7E-01 | 2.0E+01 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| n-Butylbenzene | NS | NS | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157J3 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 | <0.157 |
| n-Propylbenzene | NS | NS | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 | <0.0993 |
| p-Isopropyltoluene | NS | NS | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 |
| sec-Butylbenzene | NS | NS | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 | <0.125 |
| Styrene | 1.0E+01 | 3.8E+04 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 |
| tert-Butylbenzene | NS | NS | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 | <0.127 |
| Tetrachloroethene | 5.0E+00 | 2.8E+02 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Toluene | 4.0E+01 | 4.8E+03 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 | <0.278 |
| trans-1,2-Dichloroethene | 1.0E+01 | 8.2E+02 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 | <0.149 |
| trans-1,3-Dichloropropene | NS | NS | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 |
| Trichloroethene | 5.0E+00 | 7.5E+00 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 |
| Trichlorofluoromethane | NS | NS | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 |
| Vinyl chloride | 5.0E-01 | 1.4E-01 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 | <0.234 |
| Xylenes, Total | 2.0E+01 | 1.6E+03 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 | <0.174 |

**Notes:**

Yellow shading concentrations exceed the ESLs Direct Exposure - MCL Priority.

Boxed concentrations exceed the minimum of the Cancer and Non-Cancer ESLs GW VI – Commercial/Industrial.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

EB = Equipment Blank.

ESL = Environmental screening level.

ft bgs = feet below ground surface.

MCL = Maximum contaminant level.

NA = Not available.

NS = No standard established.

TB = Trip Blank.

VI = Vapor Intrusion.

VOC = Volatile organic compound.

VOCs analyzed by Environmental Protection Agency Method 8260B.

µg/l = Micrograms per liter.

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

J4 = The associated batch quality control was outside the established quality control for accuracy.

J = The identification of the analyte is acceptable, the report value is an estimate.

[1] First and second water-bearing zones were identified by Rowe' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i.e., low permeability silts and clays) separating saturated material.

[2] San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Groundwater Direct Exposure: Human Health Risk Levels (Table GW-1), MCL Priority, January 2019.

[3] San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Groundwater Vapor Intrusion: Human Health Risk Levels (Table GW-3), January 2019.

[4] DUP-2 is the duplicate sample of GW-2-2.

[5] DUP-3 is the duplicate of sample P-06.

[6] DUP-1 is the duplicate of sample P-10.

**Table 10. Summary of Total Petroleum Hydrocarbons in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 Direct Exposure MCL Priority ESL[2] | GW-1-1 | GW-2-1 | GW-2-2 | DUP-2[3] | GW-3-1 | GW-3-2 | GW-4-1 | GW-4-2 | GW-5-1 | GW-5-2 | GW-6-1 | GW-6-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | | 1st | 1st | 2nd | 2nd | 1st | 2nd | 1st | 2nd | 1st | 2nd | 1st | 2nd |
| Sample Date | | 6/23/2024 | 6/23/2024 | 6/24/2024 | 6/24/2024 | 6/24/2024 | 6/24/2024 | 6/24/2024 | 6/24/2024 | 6/21/2024 | 6/23/2024 | 6/24/2024 | 6/24/2024 |
| Sample Interval (ft bgs) | | 13 - 13.5 | 13 - 13.5 | 18 - 26 | 18 - 26 | 12.5 - 16 | 18.5 - 20 | 13.5 - 14 | 22 - 23 | 10 - 14.5 | 20.5 - 26 | 17 - 18 | 21 - 22.5 |
| **PETROLEUM HYDROCARBONS - 3511/8015 (µg/l)** | | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 7.6E+02 | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 | **200 B** | <30.4 | <30.4 | **110 B** | <30.4 | **928** | <30.4 |
| TPH-d C12-C22 Hydrocarbons | 2.0E+02 | **122** | **1,670** | **293** | **477** | **393** | **165 B** | **598** | <33 | **467** | <33 | **812** | <33 |
| TPH-d C22-C32 Hydrocarbons | 2.0E+02 | **247** | **700** | **320** | **421** | **288** | **172** | **462** | **160** | **610** | **114** | <33 | <33 |
| TPH-mo C32-C40 Hydrocarbons | NS | <33 | **311** | <33 | **118** | **102** | <33 | **795** | <33 | **268** | <33 | <33 | <33 |

**Notes:**

Yellow shaded concentrations exceed the ESLs Direct Exposure - MCL Priority.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

EB = Equipment Blank.

ESL = Environmental screening level.

MCL = Maximum contaminant limit.

NA = Not applicable.

NS = No standard established.

Total Petroluem Hydrocarbons analyzed by Environmental Protection Agency Method 3511/8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

µg/l = Micrograms per liter.

B = The same analyte is found in the associated blank.

J4 = The associated batch quality control was outside the established quality control for accuracy

[1] First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i.e., low permeability silts and clays) separating saturated material.

[2] San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Groundwater Direct Exposure: Human Health Risk Levels (Table GW-1). MCL Priority. January 2019.

[3] DUP-2 is the duplicate sample of GW-2-2.

[4] DUP-3 is the duplicate of sample P-06.

[5] DUP-1 is the duplicate of sample P-10.

**Table 10. Summary of Total Petroleum Hydrocarbons in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 | P-01 | P-02 | P-06 | DUP-3[4] | P-08 | P-10 | DUP-1[5] | P-11 | P-12 | EB-052024 | EB-052124 | EB-052224 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | Direct Exposure | 1st | 1st | 1st | 1st | 1st | 1st | 1st | 1st | 1st | NA | NA | NA |
| Sample Date | MCL Priority ESL[2] | 6/24/2024 | 6/24/2024 | 6/28/2024 | 6/28/2024 | 6/28/2024 | 6/23/2024 | 6/23/2024 | 6/24/2024 | 6/24/2024 | 6/20/2024 | 6/21/2024 | 6/22/2024 |
| Sample Interval (ft bgs) | | 16 - 17.5 | 12.5 - 13 | 6 - 6.5 | 6 - 6.5 | 6 - 10 | 18.5 - 20 | 18.5 - 20 | 12 - 13.5 | 6 - 8.5 | NA | NA | NA |
| **PETROLEUM HYDROCARBONS - 3511/8015 (µg/l)** | | | | | | | | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 7.6E+02 | **18,300** | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 |
| TPH-d C12-C22 Hydrocarbons | 2.0E+02 | **2,680** | **347 B** | **382** | **405** | **2,030** | **102** | <33 | **183** | **176 B** | <33 | <33 | <33 J4 |
| TPH-d C22-C32 Hydrocarbons | 2.0E+02 | **507** | **260** | **268** | **333** | **2,890** | **166** | **136** | **208** | **122** | <33 | <33 | <33 |
| TPH-mo C32-C40 Hydrocarbons | NS | <33 | <33 | <33 | **199** | **1,200** | <33 | <33 | <33 | <33 | <33 | <33 | <33 |

**Notes:**

Yellow shaded concentrations exceed the ESLs Direct Exposure - MCL Priority.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

EB = Equipment Blank.

ESL = Environmental screening level.

MCL = Maximum contaminant limit.

NA = Not applicable.

NS = No standard established.

Total Petroluem Hydrocarbons analyzed by Environmental Protection Agency Method 3511/8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

µg/l = Micrograms per liter.

B = The same analyte is found in the associated blank.

J4 = The associated batch quality control was outside the established quality control for accuracy

[1] First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i.e., low permeability silts and clays) separating saturated material.

[2] San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Groundwater Direct Exposure: Human Health Risk Levels (Table GW-1), MCL Priority. January 2019.

[3] DUP-2 is the duplicate sample of GW-2-2.

[4] DUP-3 is the duplicate of sample P-06.

[5] DUP-1 is the duplicate of sample P-10.

**Table 10. Summary of Total Petroleum Hydrocarbons in Groundwater. AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 Direct Exposure MCL Priority ESL[2] | EB-052324 | EB-052424 | EB-052824 | EB-052924 | EB-053024 |
|---|---|---|---|---|---|---|
| Encountered Water-Bearing Zone[1] | | NA | NA | NA | NA | NA |
| Sample Date | | 5/23/2024 | 5/24/2024 | 5/28/2024 | 5/29/2024 | 5/30/2024 |
| Sample Interval (ft bgs) | | NA | NA | NA | NA | NA |
| **PETROLEUM HYDROCARBONS - 3511/8015 (µg/l)** | | | | | | |
| TPH-g C5 - C12 Hydrocarbons | 7.6E+02 | <30.4 | <30.4 | <30.4 | <30.4 | <30.4 |
| TPH-d C12-C22 Hydrocarbons | 2.0E+02 | <33 | <33 | <33 | <33 | <33 |
| TPH-d C22-C32 Hydrocarbons | 2.0E+02 | <33 | <33 | <33 | <33 | <33 |
| TPH-mo C32-C40 Hydrocarbons | NS | <33 | <33 | <33 | <33 | <33 |

**Notes:**

Yellow shaded concentrations exceed the ESLs Direct Exposure - MCL Priority.

< = Not detected at or above method detection limit.

**Bold** = Detected concentration.

EB = Equipment Blank.

ESL = Environmental screening level.

MCL = Maximum contaminant limit.

NA = Not applicable.

NS = No standard established.

Total Petroluem Hydrocarbons analyzed by Environmental Protection Agency Method 3511/8015.

TPH-g = Total Petroluem Hydrocarbons as gasoline.

TPH-d = Total Petroluem Hydrocarbons as diesel.

TPH-mo = Total Petroluem Hydrocarbons as motor oil.

µg/l = Micrograms per liter.

B = The same analyte is found in the associated blank.

J4 = The associated batch quality control was outside the established quality control for accuracy

[1] First and second water-bearing zones were identified by Rouxs' field geologist based on moisture content observations from drill cuttings and the identification aquicludes (i.e., low permeability silts and clays) separating saturated material.

[2] San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels (ESLs): Groundwater Direct Exposure: Human Health Risk Levels (Table GW-1), MCL Priority. January 2019.

[3] DUP-2 is the duplicate sample of GW-2-2.

[4] DUP-3 is the duplicate of sample P-06.

[5] DUP-1 is the duplicate of sample P-10.

**Table 11. Summary of Active Soil Vapor Analytical Data, AB and I Redevelopment; Oakland, California.**

| Sample ID | 2019 VI HHRL Commerical | 2019 VI HHRL Commerical | 2019 VI HHRL Commerical | SVP-05-5 | SVP-05-8 | SVP-10-5 | SVP-DUP-01[3] | SVP-10-8 | SVP-13-5 | SVP-DUP-02[4] | SVP-13-8 | SVP-25-5 | SVP-25-8 | SVP-32-8 | SVP-38-5 | SVP-38-8 | SVP-41-5 | SVP-41-8 | SVP-45-5 | SVP-52-8 | SVP-53-5 | SVP-53-8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | Cancer ESL[1] | Non-Cancer ESL[1] | Minimum Value[1] | 5 | 8 | 5 | 5 | 8 | 5 | 5 | 8 | 5 | 8 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 |
| Sample Date | | | | 8/7/2024 | 8/8/2024 | 8/8/2024 | 8/8/2024 | 8/8/2024 | 8/7/2024 | 8/7/2024 | 8/8/2024 | 8/10/2024 | 8/7/2024 | 8/8/2024 | 8/7/2024 | 8/10/2024 | 8/7/2024 | 8/7/2024 | 8/7/2024 | 8/8/2024 | 8/8/2024 | 8/8/2024 |
| **VOLATILE ORGANIC COMPOUNDS VAPOR - EPA TO-15 (µg/m³)** | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5.3E+01 | NS | 5.3E+01 | <2.8 | <2.7 | <5.8 | <5.8 | <320 | <22 | <22 | <3.3 | <27 | <2.6 | <5.5 | <410 | <110 | <2.7 | <2.7 | <3 | <3.2 | <55 | <7.6 |
| 1,1,1-Trichloroethane | NS | 1.5E+06 | 1.5E+06 | <2.3 | <2.2 | 19 | 19 | <250 | <17 | <17 | <2.6 | <22 | <2.3 | <4.4 | <330 | <85 | <2.2 | <2.2 | <2.4 | <2.5 | <44 | <6 |
| 1,1,2,2-Tetrachloroethane | 7.0E+00 | NS | 7.0E+00 | <2.9 | <2.7 | <5.8 | <5.8 | <320 | <22 | <22 | <3.3 | <27 | <2.9 | <5.5 | <410 | <110 | <2.7 | <2.7 | <3 | <3.2 | <55 | <7.6 |
| 1,1,2-Trichloroethane | 2.0E+01 | 2.0E+01 | 2.0E+01 | <2.3 | <2.2 | <4.6 | <4.6 | <250 | <17 | <17 | <2.6 | <22 | <2.3 | <4.4 | <330 | <85 | <2.3 | <2.3 | <2.4 | <2.5 | <44 | <6 |
| 1,1-Dichloroethane | 2.0E+02 | NS | 2.0E+02 | <1.7 | <1.6 | <3.4 | <3.4 | <190 | <13 | <13 | <1.9 | <16 | 8.3 | 8.3 | 12,000 | 88 | <1.6 | <1.6 | 3.7 | <1.9 | 41 | <4.5 |
| 1,1-Dichloroethene | NS | 1.0E+04 | 1.0E+04 | <1.7 | <1.6 | <3.4 | <3.4 | <190 | <12 | <12 | <1.9 | <16 | <1.7 | <3.2 | <240 | <62 | <1.6 | <1.6 | <1.7 | <1.8 | <32 | <4.4 |
| 1,1-Difluoroethane | NS | NS | NS | <5.7 | <5.4 | <11 | <11 | <620 | <43 | <43 | <6.5 | <54 | <5.7 | <11 | <810 | <210 | <5.4 | <5.4 | <5.9 | <6.2 | <110 | <15 |
| 1,2,4-Trichlorobenzene | NS | 2.9E+02 | 2.9E+02 | <3.1 | <3 | <6.3 | <6.3 | <340 | <23 | <23 | <3.6 | <30 | <3.1 | <5.9 | <450 | <120 | <3 | <3 | <3.3 | <3.4 | <59 | <8.2 |
| 1,2,4-Trimethylbenzene | NS | NS | NS | <2.1 | <2 | <4.2 | <4.2 | <230 | <15 | <15 | <2.4 | <20 | <2.1 | <3.9 | 370 | 290 | 3.2 | <2 | <2.2 | 8.2 | 46 | <5.4 |
| 1,2-Dibromoethane | 6.8E-01 | 1.2E+02 | 6.8E-01 | 3.2 U | <3.1 | <6.5 | <6.5 | <350 | <24 | <24 | <3.7 | <31 | <3.2 | <6.1 | <460 | <120 | <3.1 | <3.1 | <3.4 | <3.5 | <61 | <8.5 |
| 1,2-Dichlorobenzene | NS | 2.9E+04 | 2.9E+04 | <2.5 | <2.4 | <5.1 | <5.1 | <280 | <19 | <19 | <2.9 | <24 | <2.5 | <4.8 | <360 | 140 | <2.4 | <2.4 | <2.6 | <2.8 | <48 | <6.6 |
| 1,2-Dichloroethane | 1.6E+01 | 1.0E+03 | 1.6E+01 | <1.7 | <1.6 | <3.4 | <3.4 | <190 | <13 | <13 | <1.9 | <16 | <1.7 | <3.2 | <240 | <63 | <1.6 | <1.6 | <1.8 | <1.9 | <32 | <4.5 |
| 1,2-Dichloropropane | 4.1E+01 | 5.8E+02 | 4.1E+01 | <1.9 | <1.8 | <3.9 | <3.9 | <210 | <15 | <15 | <2.2 | <18 | <1.9 | <3.7 | <260 | <72 | <1.8 | <1.8 | <2 | <2.1 | <37 | <5.1 |
| 1,3,5-Trimethylbenzene | NS | NS | NS | <2.1 | <2 | <4.2 | <4.2 | <230 | <15 | <15 | <2.4 | <20 | <2.1 | <3.9 | 300 | 340 | <2 | <2 | <2.2 | 3.5 | 57 | <5.4 |
| 1,3-Dichlorobenzene | NS | NS | NS | <2.5 | <2.4 | <5.1 | <5.1 | <280 | <19 | <19 | <2.9 | <24 | <2.5 | <4.8 | <360 | 110 | <2.4 | <2.4 | <2.6 | <2.8 | <48 | <6.6 |
| 1,4-Dichlorobenzene | 3.7E+01 | 1.2E+05 | 3.7E+01 | <2.5 | <2.4 | <5.1 | <5.1 | <280 | <19 | <19 | <2.9 | <24 | <2.5 | <4.8 | 1,300 | 410 | <2.4 | <2.4 | <2.6 | <2.8 | <48 | <6.6 |
| 2-Butanone | NS | 7.3E+05 | 7.3E+05 | 45 | 28 | <13 | <13 | <680 | <46 | <46 | 7.2 | <59 | 19 | 14 | <880 | <230 | <5.8 | 10 | 8.8 | 14 | <120 | <16 |
| 2-Hexanone | NS | NS | NS | 7.2 | <4.1 | <8.7 | <8.7 | <470 | <32 | <32 | <4.9 | <41 | <4.3 | <8.2 | <610 | <160 | <4.1 | <4.1 | <4.5 | <4.7 | <82 | <11 |
| 4-Ethyltoluene | NS | NS | NS | <2.1 | <2 | <4.2 | <4.2 | <230 | <15 | <15 | <2.4 | <20 | <2.1 | <3.9 | <290 | 220 | <2 | <2 | <2.2 | <2.3 | <39 | <5.4 |
| 4-Methyl-2-Pentanone | NS | 4.4E+05 | 4.4E+05 | 6.5 | 3.1 | <3.5 | <3.5 | <190 | <13 | <13 | <2 | <16 | 7.8 | <3.3 | <250 | <64 | <1.6 | <1.6 | <1.8 | 8.9 | <33 | <4.5 |
| Acetone | NS | 4.5E+06 | 4.5E+06 | 130 | 150 | <10 | <10 | <550 | <37 | <37 | 18 | <48 | 32 | 160 | <710 | <190 | 14 | 66 | 18 | 53 | <95 | 22 |
| Benzene | 1.4E+01 | 4.4E+02 | 1.4E+01 | 22 | 14 | <2.7 J | 19 J | <150 | 66 | 66 | 7.5 | <13 | 4.7 | 35 | <190 | 80 | 4.1 | 5 | 8 | 7.6 | 36 | 12 |
| Benzyl chloride | NS | NS | NS | <2.2 | <2.1 | <4.4 | <4.4 | <240 | <18 | <18 | <2.5 | <21 | <2.2 | <4.1 | <310 | <81 | <2.1 | <2.1 | <2.3 | <2.4 | <41 | <5.7 |
| Bromodichloromethane | 1.1E+01 | NS | 1.1E+01 | <2.6 | <2.7 | <5.7 | <5.7 | <310 | <21 | <21 | <3.2 | <27 | <2.8 | <5.4 | <400 | <100 | <2.7 | <2.7 | <2.9 | <3.1 | <54 | <7.4 |
| Bromoform | 3.7E+02 | NS | 3.7E+02 | <4.3 | <4.1 | <8.8 | <8.8 | <480 | <33 | <33 | <5 | <41 | <4.3 | <8.3 | <620 | <160 | <4.1 | <4.1 | <4.5 | <4.8 | <83 | <11 |
| Bromomethane | NS | 7.3E+03 | 7.3E+03 | <1.6 | <1.6 | <3.3 | <3.3 | <180 | <12 | <12 | <1.9 | <16 | <1.6 | <3.1 | <230 | <61 | <1.6 | <1.6 | <1.7 | <1.8 | <31 | <4.3 |
| Carbon Disulfide | NS | NS | NS | 67 | 170 | <2.6 | <2.5 | 148 | 13 | 13 | 226 | 73 | 85 | 3.1 | 200 | <48 | 13 | 49 | 8.7 | 44 | <25 | 92 |
| Carbon Tetrachloride | 6.8E+01 | 5.8E+03 | 6.8E+01 | <2.6 | <2.5 | <5.3 | <5.3 | <290 | <20 | <20 | <3 | <25 | <2.6 | <5 | <380 | <98 | <2.5 | <2.5 | <2.8 | <2.9 | <50 | <6.9 |
| Chlorobenzene | NS | 7.3E+03 | 7.3E+03 | <1.9 | <1.8 | <3.9 | <3.9 | <210 | <15 | <15 | <2.2 | <18 | <1.9 | <3.7 | <280 | <72 | <1.8 | <1.8 | <2 | <2.1 | <37 | <5.1 |
| Chloroethane | NS | 1.5E+06 | 1.5E+06 | <1.1 | <1.1 | <2.2 | <2.2 | <120 | 16 | <8.3 | 4 | <11 | 16 | <2.1 | 100,000 | 1,700 | <1.1 | <1.1 | 3.4 | 1.7 | <21 | <2.9 |
| Chloroform | 1.4E+01 | 1.4E+04 | 1.4E+01 | 5.8 | 10 | <4.2 | <4.2 | <270 | 19 | 18 | 34 | 20 | 8.4 | <3.9 | <290 | <76 | 5.8 | 2.8 | <2.1 | 9.1 | <39 | <5.4 |
| Chloromethane | NS | 1.3E+04 | 1.3E+04 | <0.87 | <0.83 | <1.8 | <1.8 | <95 | <6.5 | <6.5 | 1.7 | <8.3 | 1.4 | <1.7 | <120 | <32 | <0.83 | 3 | <0.91 | 2.3 | <17 | <2.3 |
| cis-1,2-Dichloroethene | NS | 1.2E+03 | 1.2E+03 | 2.8 | 2.8 | <3.4 | <3.4 | <180 | <12 | <12 | <1.9 | <16 | 85 | 32 | <240 | <62 | 1.7 | <1.6 | 18 | <1.8 | <32 | <4.4 |
| cis-1,3-Dichloropropene | NS | NS | NS | <1.9 | <1.8 | <3.9 | <3.9 | <210 | <14 | <14 | <2.2 | <18 | <1.9 | <3.9 | <270 | <71 | <1.8 | <1.8 | <2 | <2.1 | <36 | <5 |
| Dibromochloromethane | NS | NS | NS | <3.6 | <3.4 | <7.2 | <7.2 | <390 | <27 | <27 | <4.1 | <34 | <3.6 | <6.8 | <510 | <130 | <3.4 | <3.4 | <3.7 | <3.9 | <68 | <9.4 |
| Ethylbenzene | 1.5E+02 | 1.5E+05 | 1.5E+02 | 2 | 2.8 | <3.7 | 4.5 | <200 | <14 | <14 | <2.1 | <17 | 2.1 | <3.5 | <260 | <68 | 2.6 | 2.5 | <1.9 | 4.3 | 35 | <4.9 |
| Freon 113 | NS | NS | NS | <3.2 | <3.1 | <6.5 | <6.5 | <350 | <24 | <24 | <3.7 | <31 | <3.2 | <6.1 | <460 | <120 | <3.1 | <3.1 | <3.4 | <3.5 | <61 | <8.4 |
| Freon 114 | NS | NS | NS | <2.9 | <2.8 | <5.9 | <5.9 | <320 | <22 | <22 | <3.4 | <28 | <2.9 | <5.6 | <420 | <110 | <2.8 | <2.8 | <3.1 | <3.2 | <56 | <7.7 |
| Freon 12 | NS | NS | NS | <2.1 | <2 | <4.2 | <4.2 | <230 | <16 | <16 | 2.8 | <20 | 2.4 | <4 | <300 | <77 | 3 | 2.8 | <2.2 | 2.5 | <40 | <5.4 |
| Hexachlorobutadiene | 1.8E+01 | NS | 1.8E+01 | <4.5 | <4.3 | <9.1 | <9.1 | <490 | <34 | <34 | <5.1 | <43 | <4.5 | <8.5 | <640 | <170 | <4.3 | <4.3 | <4.7 | <4.9 | <85 | <12 |
| Isopropanol (IPA) | NS | NS | NS | 76 | 7.8 | <15 | <15 | <570 | <39 | <39 | 20 | <49 | 20 | 420 | <740 | <190 | <4.9 | 84 | <5.4 | 38 | <98 | 14 |
| m,p-Xylenes | NS | NS | NS | 4.8 | 8.2 | <7.4 | <7.4 | <400 | <27 | <27 | <4.2 | 45 | 8.2 | 8.4 | <520 | <140 | 5.9 | 5.6 | <3.8 | 20 | <69 | <9.8 |
| Methylene Chloride | 4.1E+02 | 5.8E+04 | 4.1E+02 | 1.6 | <1.4 | <3 | <3 | <160 | <11 | <11 | 5.2 | <14 | 2 | <2.8 | <210 | <54 | <1.4 | 4.8 | <1.5 | 2.5 | <28 | <3.8 |
| MTBE | 1.6E+03 | 4.4E+05 | 1.6E+03 | <1.5 | <1.4 | <3.1 | <3.1 | <170 | <11 | <11 | 8.5 | <14 | <1.5 | 5.5 | <220 | <56 | <1.4 | <1.4 | 3.4 | <1.7 | <28 | <4 |
| Naphthalene | 1.2E+01 | 4.4E+02 | 1.2E+01 | <11 | <10 | <22 | <22 | <1200 | <83 | <83 | <13 | <100 | <11 | <21 | <1600 | <410 | <10 | <10 | <12 | <12 | <210 | <29 |
| n-Hexane | NS | NS | NS | 180 | 180 | 3.2 J | 34 J | 26,500 | 2,100 | 2,100 | 356 | 940 | 73 | 520 | 16,000 | 9,400 | <1.4 | 2.8 | 280 | 21 | 5,900 | 660 |
| o-Xylene | NS | NS | NS | 1.8 | 3 | <3.7 | <3.7 | <200 | <14 | <14 | <2.1 | <17 | 3.4 | 5 | 520 | 350 | 3.2 | 2.3 | <1.9 | 5.5 | <35 | <4.8 |
| Styrene | NS | 1.3E+05 | 1.3E+05 | <1.8 | <1.7 | <3.8 | <3.8 | <200 | <13 | <13 | <2 | <17 | <1.8 | <3.4 | <260 | <66 | <1.7 | <1.7 | <1.9 | <2 | <34 | <4.7 |
| Tetrachloroethene | 5.7E+01 | 5.8E+03 | 5.7E+01 | 5.3 | 4.1 | 540 | 566 | <310 | <21 | <21 | 3.5 | 270 | 1,100 | 9.7 | <410 | <110 | 22 | 5.4 | 5.1 | <3.1 | <54 | <7.5 |
| Toluene | NS | 4.4E+04 | 4.4E+04 | 21 | 50 | <3.2 | <3.2 | <170 | 48 | 47 | 17 | 54 | 17 | 7.4 | <230 | 75 | 17 | 25 | 3.7 | 46 | 37 | 17 |
| trans-1,2-Dichloroethene | NS | 1.2E+04 | 1.2E+04 | <1.7 | <1.6 | <3.4 | <3.4 | <160 | <12 | <12 | <1.8 | <16 | 26 | 8.3 | <240 | <62 | <1.6 | <1.6 | <1.7 | <1.8 | <32 | <4.4 |
| trans-1,3-Dichloropropene | NS | NS | NS | <1.9 | <1.8 | <3.9 | <3.9 | <210 | <14 | <14 | <2.2 | <18 | <1.9 | <3.8 | <270 | <71 | <1.8 | <1.8 | <2 | <2.1 | <36 | <5 |
| Trichloroethene | 1.0E+02 | 2.9E+03 | 1.0E+02 | <2.3 | 2.4 | <4.6 | <4.6 | <250 | <17 | <17 | <2.6 | 65 | 350 | <4.3 | <320 | <84 | 17 | <2.1 | <2.4 | <2.5 | <43 | <5.9 |
| Trichlorofluoromethane | NS | NS | NS | <2.4 | <2.2 | <4.8 | <4.8 | <266 | <16 | <16 | <2.7 | <22 | <2.4 | <4.5 | <340 | <88 | <2.2 | <2.2 | <2.5 | <2.6 | <45 | <6.2 |
| Vinyl Acetate | NS | NS | NS | <7.4 | <7 | <15 | <15 | <810 | <55 | <55 | <8.5 | <70 | <7.4 | <14 | <1100 | <270 | <7 | <7 | <7.7 | <8.1 | <140 | <19 |
| Vinyl Chloride | 5.2E+00 | 1.8E+04 | 5.2E+00 | <1.1 | <1 | <2.2 | <2.2 | <120 | <8.1 | <8.1 | <1.2 | <10 | <1.1 | 41 | 250 | <40 | <1 | <1 | 88 | <1.2 | <20 | <2.8 |
| Xylene (total) | NS | 1.5E+04 | 1.5E+04 | 5.7 | 12 | <3.7 | <3.7 | <200 | <14 | <14 | <2.1 | 45 | 12 | 13 | 520 | 350 | 9.1 | 8 | <1.9 | 26 | <35 | <4.8 |
| **PETROLEUM HYDROCARBONS - EPA TO-3M (µg/m³)** | | | | | | | | | | | | | | | | | | | | | | |
| TPH Gasoline | NS | 8.3E+04 | 8.3E+04 | 8,300 | 8,200 | 1,300 J | 1,800 J | 2,300,000 | 150,000 | 150,000 | 11,000 | 160,000 | 14,000 | 22,000 | 2,000,000 | 480,000 | 4,300 | 6,500 | 19,000 | 3,800 | 130,000 | 25,000 |
| **GASES - ASTM D1946 (%v/v)** | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Dioxide | NS | NS | NS | 15 | 14 | 4 | 4 | 0.78 | 17 | 17 | 0.89 | 3.1 | 1.1 | 1.6 | 0.48 | 1 | 3.3 | 0.92 | 2.1 | 1.1 | 0.46 | 1.1 |
| Carbon Monoxide | NS | NS | NS | <0.21 | <0.2 | <0.17 | <0.17 | <0.23 | <0.21 | <0.21 | <0.24 | <0.24 | <0.21 | <0.2 | <0.24 | <0.26 | <0.2 | <0.2 | <0.22 | <0.23 | <0.2 | <0.22 |
| Helium | NS | NS | NS | <0.21 | <0.2 | <0.17 | <0.17 | 0.36 | <0.21 | <0.21 | <0.24 | <0.24 | <0.21 | <0.2 | <0.24 | 0.39 | <0.2 | <0.2 | <0.22 | <0.23 | <0.2 | <0.22 |
| Methane | NS | NS | NS | 2.8 | 2.8 | <0.17 | <0.17 | 0.85 | 52 | 52 | 0.25 | 0.49 | <0.21 | 2.5 | 16 | 1.9 | <0.2 | <0.2 | 6 | <0.23 | 5.3 | 0.69 |
| Nitrogen | NS | NS | NS | 77 | 79 | 79 | 79 | 82 | 28 | 28 | 79 | 75 | 76 | 91 | 68 | 79 | 89 | 83 | 87 | 77 | 89 | 82 |
| Oxygen | NS | NS | NS | <0.21 | <0.2 | 14 | 14 | 12 | <0.21 | <0.21 | 16 | 16 | 16 | <0.2 | 14 | 3.2 | 13 | <0.22 | 16 | <0.2 | 12 |

**Notes:**

Yellow shaded concentrations exceed the minimum of the SFBRWQCB 2019 VI HHRL Commercial/Industrial Cancer and Non-Cancer ESL.

< = Not detected above laboratory reporting limit.

Bold = Detected concentration.

ESL = Environmental Screening Level.

Fixed Gases analyzed by American Society for Testing and Materials (ASTM) Method D1946.

ft bgs = Feet below ground surface.

HHRL = Human Health Risk Level.

NS = No standard established.

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board.

Total Petroleum Hydrocarbons (TPH) analyzed by USEPA Method TO-3.

VI = Vapor Intrusion.

Volatile organic compounds (VOCs) analyzed by United States Protection Agency (USEPA) Method TO-15.

When the applicable state standard applies to mixed isomers and the laboratory reports individual isomers, the total standard is listed for each isomer.

µg/m³ = Micrograms per cubic meter.

%v/v = Percent Volume by Volume.

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

[1] San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion Human Health Risk Levels (Table SG-1). January 2019.

[2] SVP-DUP-01 duplicate sample of primary sample SVP-10-5.

[3] SVP-DUP-02 duplicate sample of primary sample SVP-13-5.

[4] SVP-DUP-3 duplicate sample of primary sample SVP-02-4.

**Table 11, Summary of Active Soil Vapor Analytical Data, AB and I Redevelopment; Oakland, California.**

| Sample ID | | | | SVP-S7-5 | SVP-S2-4 | SVP-DUP-03[4] |
|---|---|---|---|---|---|---|
| Sample Depth (ft bgs) | 2019 VI HHRL Commerical | 2019 VI HHRL Commerical | 2019 VI HHRL Commerical | 5 | 4 | 4 |
| Sample Date | Cancer ESL[1] | Non-Cancer ESL[1] | Minimum Value[1] | 5/9/2024 | 5/11/2024 | 5/8/2024 |
| **VOLATILE ORGANIC COMPOUNDS VAPOR - EPA TO-15 (µg/m³)** | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5.3E+01 | NS | 5.3E+01 | <13 | <41 | <33 |
| 1,1,1-Trichloroethane | NS | 1.5E+06 | 1.5E+06 | <10 | <33 | <26 |
| 1,1,2,2-Tetrachloroethane | 7.0E+00 | NS | 7.0E+00 | <13 | <41 | <33 |
| 1,1,2-Trichloroethane | 2.8E+01 | 2.8E+01 | 2.8E+01 | <10 | <33 | <26 |
| 1,1-Dichloroethane | 2.8E+02 | NS | 2.8E+02 | 53 | <24 | <19 |
| 1,1-Dichloroethene | NS | 1.0E+04 | 1.0E+04 | <7.9 | <24 | <19 |
| 1,1-Difluoroethane | NS | NS | NS | <25 | <81 | <65 |
| 1,2,4-Trichlorobenzene | NS | 2.9E+02 | 2.9E+02 | <14 | <45 | <35 |
| 1,2,4-Trimethylbenzene | NS | NS | NS | 280 | <28 | <34 |
| 1,2-Dibromoethane | 6.8E-01 | 1.2E+02 | 6.8E-01 | <14 | <46 | <37 |
| 1,2-Dichlorobenzene | NS | 2.9E+04 | 2.9E+04 | <11 | <36 | <29 |
| 1,2-Dichloroethane | 1.8E+01 | 1.0E+03 | 1.8E+01 | <7.4 | <24 | <19 |
| 1,2-Dichloropropane | 4.1E+01 | 5.8E+02 | 4.1E+01 | <8.5 | <28 | <22 |
| 1,3,5-Trimethylbenzene | NS | NS | NS | 180 | <28 | <24 |
| 1,3-Dichlorobenzene | NS | NS | NS | <11 | <36 | <29 |
| 1,4-Dichlorobenzene | 3.7E+01 | 1.2E+05 | 3.7E+01 | <11 | 270 | 300 |
| 2-Butanone | NS | 7.3E+05 | 7.3E+05 | 36 | <98 | <71 |
| 2-Hexanone | NS | NS | NS | <19 | <61 | <49 |
| 4-Ethyltoluene | NS | NS | NS | 74 | <29 | <24 |
| 4-Methyl-2-Pentanone | NS | 4.4E+05 | 4.4E+05 | 46 | <35 | <28 |
| Acetone | NS | 4.5E+06 | 4.5E+06 | 160 | 77 | 100 |
| Benzene | 1.4E+01 | 4.4E+02 | 1.4E+01 | 170 | 71 | 77 |
| Benzyl chloride | NS | NS | NS | <8.5 | <31 | <25 |
| Bromodichloromethane | 1.1E+01 | NS | 1.1E+01 | <12 | <40 | <32 |
| Bromoform | 3.7E+02 | NS | 3.7E+02 | <16 | <52 | <50 |
| Bromomethane | NS | 7.3E+03 | 7.3E+03 | <7.1 | <23 | <18 |
| Carbon Disulfide | NS | NS | NS | 160 | 24 | 26 |
| Carbon Tetrachloride | 6.8E+01 | 6.8E+03 | 6.8E+01 | <12 | <38 | <30 |
| Chlorobenzene | NS | 7.3E+03 | 7.3E+03 | <8.5 | 2,900 | 2,900 |
| Chloroethane | NS | 1.5E+06 | 1.5E+06 | 8.1 | <16 | <13 |
| Chloroform | 1.6E+01 | 1.4E+04 | 1.6E+01 | <9 | <29 | <23 |
| Chloromethane | NS | 1.3E+04 | 1.3E+04 | <3.8 | <12 | <9.9 |
| cis-1,2-Dichloroethene | NS | 1.2E+03 | 1.2E+03 | 27 | 80 | 85 |
| cis-1,3-Dichloropropene | NS | NS | NS | <8.4 | <27 | <22 |
| Dibromochloromethane | NS | NS | NS | <16 | <51 | <41 |
| Ethylbenzene | 1.5E+02 | 1.5E+05 | 1.5E+02 | 71 | <26 | <21 |
| Freon 113 | NS | NS | NS | <14 | <46 | <37 |
| Freon 114 | NS | NS | NS | <13 | <42 | <34 |
| Freon 12 | NS | NS | NS | <9.1 | <30 | <24 |
| Hexachlorobutadiene | 1.8E+01 | NS | 1.8E+01 | <20 | <64 | <51 |
| Isopropanol (IPA) | NS | NS | NS | <23 | <74 | <59 |
| m,p-Xylenes | NS | NS | NS | 100 | <52 | <42 |
| Methylene Chloride | 4.1E+02 | 5.8E+04 | 4.1E+02 | <5.4 | <21 | <17 |
| MTBE | 1.8E+03 | 4.4E+05 | 1.8E+03 | <8.6 | <22 | <17 |
| Naphthalene | 1.2E+01 | 4.4E+02 | 1.2E+01 | <48 | <160 | <130 |
| n-Hexane | NS | NS | NS | 1,100 | 3,400 | 3,500 |
| o-Xylene | NS | NS | NS | 120 | <26 | <21 |
| Styrene | NS | 1.3E+05 | 1.3E+05 | <7.8 | <26 | <20 |
| Tetrachloroethene | 5.7E+01 | 5.8E+03 | 5.7E+01 | 15 | <41 | <33 |
| Toluene | NS | 4.4E+04 | 4.4E+04 | 100 | 53 | 57 |
| trans-1,2-Dichloroethene | NS | 1.2E+04 | 1.2E+04 | 8.3 | <24 | <19 |
| trans-1,3-Dichloropropene | NS | NS | NS | <8.4 | <27 | <22 |
| Trichloroethene | 1.0E+02 | 2.9E+03 | 1.0E+02 | 12 | 130 | 130 |
| Trichlorofluoromethane | NS | NS | NS | <10 | <34 | <27 |
| Vinyl Acetate | NS | NS | NS | <32 | <110 | <85 |
| Vinyl Chloride | 5.2E+00 | 1.6E+04 | 5.2E+00 | 320 | 64 | 79 |
| Xylene (total) | NS | 1.5E+04 | 1.5E+04 | 220 | <26 | <21 |
| **PETROLEUM HYDROCARBONS - EPA TO-3M (µg/m³)** | | | | | | |
| TPH Gasoline | NS | 8.3E+04 | 8.3E+04 | 170,000 | 110,000 | 110,000 |
| **GASES - ASTM D1946 (%v/v)** | | | | | | |
| Carbon Dioxide | NS | NS | NS | 0.48 | 0.41 | 0.42 |
| Carbon Monoxide | NS | NS | NS | <0.23 | <0.24 | <0.24 |
| Helium | NS | NS | NS | <0.23 | <0.24 | <0.24 |
| Methane | NS | NS | NS | 24 | 1.9 | 1.9 |
| Nitrogen | NS | NS | NS | 76 | 75 | 75 |
| Oxygen | NS | NS | NS | <0.23 | 17 | 17 |

**Notes:**

Yellow shaded concentrations exceed the minimum of the SFBRWQCB 2019 VI HHRL Commercial/Industrial Cancer and

< = Not detected above laboratory reporting limit.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

Fixed Gases analyzed by American Society for Testing and Materials (ASTM) Method D1946.

ft bgs = Feet below ground surface.

HHRL = Human Health Risk Level.

NS = No standard established.

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board.

Total Petroleum Hydrocarbons (TPH) analyzed by USEPA Method TO-3.

VI = Vapor Intrusion.

Volatile organic compounds (VOCs) analyzed by United States Protection Agency (USEPA) Method TO-15.

When the applicable state standard applies to mixed isomers and the laboratory reports individual isomers, the total stand.

µg/m³ = Micrograms per cubic meter.

%v/v = Percent Volume by Volume.

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

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Soil

[2]SVP-DUP-01 duplicate sample of primary sample SVP-10-5.

[3]SVP-DUP-02 duplicate sample of primary sample SVP-13-5.

[4]SVP-DUP-3 duplicate sample of primary sample SVP-02-4.

**Table 12. Summary of Passive Soil Vapor Analytical Data, AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Start Date<br>End Date | 2019 VI HHRL Commerical Cancer ESL[1] | 2019 VI HHRL Commerical Non-Cancer ESL[1] | 2019 VI HHRL Commerical Minimum Value[1] | PSG-10A<br>5/20/2024<br>6/4/2024 | DUP-01[2]<br>5/20/2024<br>6/4/2024 | PSG-10B<br>5/20/2024<br>6/4/2024 | PSG-10C<br>5/20/2024<br>6/4/2024 | PSG-10D<br>5/20/2024<br>6/4/2024 | PSG-25A<br>5/20/2024<br>6/4/2024 | PSG-25B<br>5/20/2024<br>6/4/2024 |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS - EPA 8260C (µg/m³)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5.5E+01 | NS | 5.5E+01 | <1.13 | <1.13 | <1.14 | <1.13 | <1.14 | <1.15 | <1.15 |
| 1,1,1-Trichloroethane | NS | 1.5E+05 | 1.5E+05 | <0.44 | <0.44 | <0.45 | <0.44 | <0.45 | <0.45 | <0.45 |
| 1,1,2-Trichloroethane | 2.6E+01 | 2.9E+01 | 2.6E+01 | <1.41 | <1.41 | <1.42 | <1.4 | <1.42 | <1.42 | <1.42 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | NS | NS | NS | <0.52 | <0.52 | <0.53 | <0.52 | <0.53 | <0.53 | <0.53 |
| 1,1-Dichloroethane | 2.6E+02 | NS | 2.6E+02 | <0.55 | <0.55 | <0.55 | <0.55 | <0.55 | <0.55 | <0.55 |
| 1,1-Dichloroethene | NS | 1.0E+04 | 1.0E+04 | <1.41 | <1.41 | <1.42 | <1.4 | <1.42 | <1.42 | <1.42 |
| 1,2,3-Trichlorobenzene | NS | NS | NS | <1.19 | <1.19 | <1.2 | <1.19 | <1.2 | <1.21 | <1.2 |
| 1,2,3-Trichloropropane | NS | 4.4E+01 | 4.4E+01 | <0.62 | <0.62 | <0.62 | <0.62 | <0.62 | <0.63 | <0.63 |
| 1,2,4-Trichlorobenzene | NS | 2.9E+02 | 2.9E+02 | <1.19 | <1.19 | <1.2 | <1.19 | <1.2 | <1.21 | <1.2 |
| 1,2,4-Trimethylbenzene | NS | NS | NS | <1.4 | <1.4 | <1.41 | <1.4 | <1.41 | <1.42 | <1.42 |
| 1,2-Dibromoethane (EDB) | 6.8E-01 | 1.2E+02 | 6.8E-01 | <0.6 | <0.6 | <0.6 | <0.59 | <0.6 | <0.6 | <0.6 |
| 1,2-Dichlorobenzene | NS | 2.9E+04 | 2.9E+04 | <0.62 | <0.62 | <0.62 | <0.62 | <0.62 | <0.63 | <0.63 |
| 1,2-Dichloroethane | 1.6E+01 | 1.0E+03 | 1.6E+01 | <0.83 | <0.83 | <0.84 | <0.83 | <0.83 | <0.84 | <0.84 |
| 1,3,5-Trimethylbenzene | NS | NS | NS | <1.4 | <1.4 | <1.41 | <1.4 | <1.41 | <1.42 | <1.42 |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.62 | <0.62 | <0.62 | <0.62 | <0.62 | <0.63 | <0.63 |
| 1,4-Dichlorobenzene | 3.7E+01 | 1.2E+05 | 3.7E+01 | <0.62 | <0.62 | <0.62 | <0.62 | <0.62 | <0.63 | <0.63 |
| 1,4-Dioxane | 5.3E+01 | 4.4E+03 | 5.3E+01 | <1.13 | <1.13 | <1.14 | <1.13 | <1.14 | <1.15 | <1.15 |
| 2-Methylnaphthalene | NS | NS | NS | <1.53 | <1.53 | <1.54 | <1.52 | <1.54 | <1.55 | <1.55 |
| Benzene | 1.4E+01 | 4.4E+02 | 1.4E+01 | **2.79** | **3.46** | **2.43** | <2.19 | <2.21 | **14.3** | **25** |
| Carbon Tetrachloride | 6.8E+01 | 5.8E+03 | 6.8E+01 | <1.08 | <1.08 | <1.09 | <1.08 | <1.09 | <1.09 | <1.09 |
| Chlorobenzene | NS | 7.3E+03 | 7.3E+03 | <0.55 | <0.55 | <0.55 | <0.55 | <0.55 | <0.55 | <0.55 |
| Chloroform | 1.8E+01 | 1.4E+04 | 1.8E+01 | <1.33 | <1.33 | <1.34 | <1.32 | <1.34 | <1.34 | <1.34 |
| cis-1,2-Dichloroethene | NS | 1.2E+03 | 1.2E+03 | <0.88 | <0.88 | <0.88 | <0.87 | <0.88 | <0.89 | <0.89 |
| Ethylbenzene | 1.6E+02 | 1.5E+05 | 1.6E+02 | <1.37 | <1.37 | <1.38 | <1.36 | <1.38 | **1.57** | **2.07** |
| Isopropylbenzene | NS | NS | NS | <1.4 | <1.4 | <1.41 | <1.4 | <1.41 | <1.42 | <1.42 |
| Methylene Chloride | 4.1E+02 | 5.8E+04 | 4.1E+02 | <1.33 | <1.33 | <1.34 | <1.32 | <1.34 | <1.34 | <1.34 |
| Methyl-t-butyl ether | 1.6E+03 | 4.4E+05 | 1.6E+03 | <2.33 | <2.33 | <2.34 | <2.32 | <2.34 | <2.35 | <2.35 |
| Naphthalene | 1.2E+01 | 4.4E+02 | 1.2E+01 | <1.45 | <1.45 | <1.46 | <1.45 | <1.46 | <1.47 | <1.47 |
| o-Xylene | NS | NS | NS | <1.32 | <1.32 | **2.08** | <1.32 | <1.33 | **2.9** | **2.5** |
| p & m-Xylene | NS | NS | NS | <1.32 | <1.32 | **4.53** | <1.32 | **2.26** | **5.67** | **4.52** |
| Tetrachloroethene | 6.7E+01 | 5.8E+03 | 6.7E+01 | **19.1** | **16.5** | **14.6** | **103** | **21.8** | <1.15 | **1.88** |
| Toluene | NS | 4.4E+04 | 4.4E+04 | <2.91 | <2.91 | <2.92 | <2.9 | <2.92 | **19.8** | **35.7** |
| TPH C10-C15 | NS | 3.7E+04 | 3.7E+04 | <337 | <337 | <339 | <336 | <339 | <341 | **6,730** |
| TPH C4-C9 | NS | 8.3E+04 | 8.3E+04 | <394 | <394 | <396 | <393 | <396 | **1,940** | **10,400** |
| trans-1,2-Dichloroethene | NS | 1.2E+04 | 1.2E+04 | <1.06 | <1.06 | <1.06 | <1.05 | <1.06 | <1.07 | <1.07 |
| Trichloroethene | 1.0E+02 | 2.9E+02 | 1.0E+02 | **2.22** | **2.4** | **2.95** | **7.58** | **6.9** | <1.42 | <1.42 |
| Vinyl Chloride | 5.2E+00 | 1.5E+04 | 5.2E+00 | <0.57 | <0.57 | <0.58 | <0.57 | <0.58 | <0.58 | <0.58 |

**Notes:**

Yellow shaded concentrations exceed the minimum of the SFBRWQCB 2019 VI HHRL Commercial/Industrial Cancer and Non-Cancer ESL.

< = Not detected above laboratory reporting limit.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

HHRL = Human Health Risk Level.

NS = No standard established.

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board.

VI = Vapor Intrustion.

Volatile organic compounds (VOCs) and Total Petroluem Hydrocarbons (TPH) analyzed by United States Protection Agency (USEPA) Method 8260C.

When the applicable state standard applies to mixed isomers and the laboratory reports individual isomers, the total standard is listed for each isomer.

µg/m³ = Micrograms per cubic meter.

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

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1). January 2019.

[2]DUP-01 duplicate sample of primary sample PSG-10A.

[3]DUP-02 duplicate sample of primary sample PSG-62A.

**Table 12. Summary of Passive Soil Vapor Analytical Data, AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Start Date<br>End Date | 2019 VI HHRL Commerical Cancer ESL[1] | 2019 VI HHRL Commerical Non-Cancer ESL[1] | 2019 VI HHRL Commerical Minimum Value[1] | PSG-25C<br>5/20/2024<br>6/4/2024 | PSG-25D<br>5/20/2024<br>6/4/2024 | PSG-41A<br>5/20/2024<br>6/4/2024 | PSG-41B<br>5/20/2024<br>6/4/2024 | PSG-41C<br>5/20/2024<br>6/4/2024 | PSG-41D<br>5/20/2024<br>6/4/2024 |
|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS - EPA 8260C (µg/m³)** | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5.5E+01 | NS | 5.5E+01 | <1.15 | <1.14 | <1.13 | <1.13 | <1.13 | <1.13 |
| 1,1,1-Trichloroethane | NS | 1.5E+05 | 1.5E+05 | <0.45 | <0.45 | <0.44 | <0.44 | <0.44 | <0.44 |
| 1,1,2-Trichloroethane | 2.6E+01 | 2.9E+01 | 2.6E+01 | <1.42 | <1.42 | <1.4 | <1.4 | <1.4 | <1.41 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | NS | NS | NS | <0.53 | <0.53 | <0.52 | <0.52 | <0.52 | <0.52 |
| 1,1-Dichloroethane | 2.6E+02 | NS | 2.6E+02 | <0.55 | <0.55 | <0.54 | <0.54 | <0.55 | <0.55 |
| 1,1-Dichloroethene | NS | 1.0E+04 | 1.0E+04 | <1.42 | <1.42 | <1.4 | **9.41** | **3.5** | **18.2** |
| 1,2,3-Trichlorobenzene | NS | NS | NS | <1.2 | <1.2 | <1.19 | <1.19 | <1.19 | <1.19 |
| 1,2,3-Trichloropropane | NS | 4.4E+01 | 4.4E+01 | <0.63 | <0.63 | <0.62 | <0.62 | <0.62 | <0.62 |
| 1,2,4-Trichlorobenzene | NS | 2.9E+02 | 2.9E+02 | <1.2 | <1.2 | <1.19 | <1.19 | <1.19 | <1.19 |
| 1,2,4-Trimethylbenzene | NS | NS | NS | **5.86** | <1.41 | <1.39 | <1.39 | <1.4 | <1.4 |
| 1,2-Dibromoethane (EDB) | 6.8E-01 | 1.2E+02 | 6.8E-01 | <0.6 | <0.6 | <0.59 | <0.59 | <0.59 | <0.59 |
| 1,2-Dichlorobenzene | NS | 2.9E+04 | 2.9E+04 | <0.63 | <0.63 | <0.62 | <0.62 | <0.62 | <0.62 |
| 1,2-Dichloroethane | 1.6E+01 | 1.0E+03 | 1.6E+01 | <0.84 | <0.84 | <0.83 | <0.83 | <0.83 | <0.83 |
| 1,3,5-Trimethylbenzene | NS | NS | NS | **1.77** | <1.41 | <1.39 | <1.39 | <1.4 | <1.4 |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.63 | <0.63 | <0.62 | <0.62 | <0.62 | <0.62 |
| 1,4-Dichlorobenzene | 3.7E+01 | 1.2E+05 | 3.7E+01 | <0.63 | <0.63 | <0.62 | <0.62 | <0.62 | <0.62 |
| 1,4-Dioxane | 5.3E+01 | 4.4E+03 | 5.3E+01 | <1.15 | <1.14 | <1.13 | <1.13 | <1.13 | <1.13 |
| 2-Methylnaphthalene | NS | NS | NS | **2.17** | <1.54 | <1.52 | <1.52 | <1.52 | <1.53 |
| Benzene | 1.4E+01 | 4.4E+02 | 1.4E+01 | **8.57** | **7.75** | **6.23** | **2.62** | **2.61** | **4.48** |
| Carbon Tetrachloride | 6.8E+01 | 5.8E+03 | 6.8E+01 | <1.09 | <1.09 | <1.08 | <1.08 | <1.08 | <1.08 |
| Chlorobenzene | NS | 7.3E+03 | 7.3E+03 | <0.55 | <0.55 | <0.54 | <0.54 | <0.55 | <0.55 |
| Chloroform | 1.8E+01 | 1.4E+04 | 1.8E+01 | <1.34 | <1.34 | <1.32 | <1.32 | <1.32 | <1.33 |
| cis-1,2-Dichloroethene | NS | 1.2E+03 | 1.2E+03 | <0.89 | <0.88 | <0.87 | **25.2** | **16.5** | **32.1** |
| Ethylbenzene | 1.6E+02 | 1.5E+05 | 1.6E+02 | <1.38 | <1.38 | <1.36 | <1.36 | <1.36 | <1.36 |
| Isopropylbenzene | NS | NS | NS | <1.41 | <1.41 | <1.39 | <1.39 | <1.4 | <1.4 |
| Methylene Chloride | 4.1E+02 | 5.8E+04 | 4.1E+02 | <1.34 | <1.34 | <1.32 | <1.32 | <1.32 | <1.33 |
| Methyl-t-butyl ether | 1.6E+03 | 4.4E+05 | 1.6E+03 | <2.35 | <2.35 | <2.31 | <2.31 | <2.32 | <2.32 |
| Naphthalene | 1.2E+01 | 4.4E+02 | 1.2E+01 | **4.71** | <1.47 | <1.45 | <1.45 | <1.45 | <1.45 |
| o-Xylene | NS | NS | NS | **2.9** | **2.37** | <1.32 | <1.32 | <1.32 | <1.32 |
| p & m-Xylene | NS | NS | NS | **6.06** | **3.35** | <1.32 | <1.32 | <1.32 | <1.32 |
| Tetrachloroethene | 6.7E+01 | 5.8E+03 | 6.7E+01 | **10.4** | **19.8** | <1.13 | **18.3** | <1.13 | **1.54** |
| Toluene | NS | 4.4E+04 | 4.4E+04 | **9.23** | **6.86** | <2.89 | <2.89 | <2.9 | <2.9 |
| TPH C10-C15 | NS | 3.7E+04 | 3.7E+04 | <340 | **1,060** | <335 | <335 | <336 | <336 |
| TPH C4-C9 | NS | 8.3E+04 | 8.3E+04 | <398 | **2,400** | <392 | <392 | <393 | <393 |
| trans-1,2-Dichloroethene | NS | 1.2E+04 | 1.2E+04 | <1.07 | <1.07 | <1.05 | **5.74** | **3.19** | **7.02** |
| Trichloroethene | 1.0E+02 | 2.9E+02 | 1.0E+02 | <1.42 | **2.47** | <1.4 | **1,370** | **677** | **5,280** |
| Vinyl Chloride | 5.2E+00 | 1.5E+04 | 5.2E+00 | <0.58 | <0.58 | <0.57 | <0.57 | <0.57 | <<0.57 |

**Notes:**

Yellow shaded concentrations exceed the minimum of the SFBRWQCB 2019 VI HHRL Commercial/Industrial Cancer and Non-Cancer ESL.

< = Not detected above laboratory reporting limit.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

HHRL = Human Health Risk Level.

NS = No standard established.

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board.

VI = Vapor Intrusion.

Volatile organic compounds (VOCs) and Total Petroluem Hydrocarbons (TPH) analyzed by United States Protection Agency (USEPA) Method 8260C.

When the applicable state standard applies to mixed isomers and the laboratory reports individual isomers, the total standard is listed for each isomer.

µg/m³ = Micrograms per cubic meter.

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

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1), January 2019.

[2]DUP-01 duplicate sample of primary sample PSG-10A.

[3]DUP-02 duplicate sample of primary sample PSG-62A.

**Table 12. Summary of Passive Soil Vapor Analytical Data. AB and I Redevelopment; Oakland, California.**

| Sample ID<br>Start Date<br>End Date | 2019 VI HHRL Commerical Cancer ESL[1] | 2019 VI HHRL Commerical Non-Cancer ESL[1] | 2019 VI HHRL Commerical Minimum Value[1] | PSG-62A<br>5/20/2024<br>6/4/2024 | DUP-02[3]<br>5/20/2024<br>6/4/2024 | PSG-62B<br>5/20/2024<br>6/4/2024 | PSG-62C<br>5/20/2024<br>6/4/2024 | PSG-62D<br>5/20/2024<br>6/4/2024 | Trip-1<br>5/20/2024<br>6/4/2024 |
|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS - EPA 8260C (µg/m³)** | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5.5E+01 | NS | 5.5E+01 | <1.15 | <1.15 | <1.15 | <1.15 | <1.15 | <1.13 |
| 1,1,1-Trichloroethane | NS | 1.5E+05 | 1.5E+05 | <0.45 | <0.45 | <0.45 | <0.45 | <0.45 | <0.44 |
| 1,1,2-Trichloroethane | 2.6E+01 | 2.9E+01 | 2.6E+01 | <1.43 | <1.43 | <1.43 | <1.43 | <1.43 | <1.4 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | NS | NS | NS | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.52 |
| 1,1-Dichloroethane | 2.6E+02 | NS | 2.6E+02 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.54 |
| 1,1-Dichloroethene | NS | 1.0E+04 | 1.0E+04 | <1.43 | <1.43 | **3.16** | <1.43 | **16.9** | <1.4 |
| 1,2,3-Trichlorobenzene | NS | NS | NS | <1.21 | <1.21 | <1.21 | <1.21 | <1.21 | <1.19 |
| 1,2,3-Trichloropropane | NS | 4.4E+01 | 4.4E+01 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.62 |
| 1,2,4-Trichlorobenzene | NS | 2.9E+02 | 2.9E+02 | <1.21 | <1.21 | <1.21 | <1.21 | <1.21 | <1.19 |
| 1,2,4-Trimethylbenzene | NS | NS | NS | **9.5** | **8.21** | <1.42 | <1.42 | <1.42 | <1.39 |
| 1,2-Dibromoethane (EDB) | 6.8E-01 | 1.2E+02 | 6.8E-01 | <0.6 | <0.6 | <0.61 | <0.61 | <0.61 | <0.59 |
| 1,2-Dichlorobenzene | NS | 2.9E+04 | 2.9E+04 | **3.93** | **3.34** | <0.63 | <0.63 | <0.63 | <0.62 |
| 1,2-Dichloroethane | 1.6E+01 | 1.0E+03 | 1.6E+01 | <0.84 | <0.84 | <0.84 | <0.84 | <0.84 | <0.83 |
| 1,3,5-Trimethylbenzene | NS | NS | NS | **5.25** | **4.2** | <1.42 | <1.42 | <1.42 | <1.39 |
| 1,3-Dichlorobenzene | NS | NS | NS | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.62 |
| 1,4-Dichlorobenzene | 3.7E+01 | 1.2E+05 | 3.7E+01 | **1.79** | **1.64** | <0.63 | <0.63 | <0.63 | <0.62 |
| 1,4-Dioxane | 5.3E+01 | 4.4E+03 | 5.3E+01 | <1.15 | <1.15 | **1.56** | **1.46** | <1.15 | <1.13 |
| 2-Methylnaphthalene | NS | NS | NS | **832** | **964** | **7.4** | **2.52** | <1.55 | <1.52 |
| Benzene | 1.4E+01 | 4.4E+02 | 1.4E+01 | **18.4 J** | **5.29 J** | **2.87** | **4.69** | **8.47** | <2.18 |
| Carbon Tetrachloride | 6.8E+01 | 5.8E+03 | 6.8E+01 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.08 |
| Chlorobenzene | NS | 7.3E+03 | 7.3E+03 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.54 |
| Chloroform | 1.8E+01 | 1.4E+04 | 1.8E+01 | <1.35 | <1.35 | <1.35 | <1.35 | <1.35 | <1.32 |
| cis-1,2-Dichloroethene | NS | 1.2E+03 | 1.2E+03 | **1.6** | <0.89 | **26.6** | **1.97** | **46.6** | <0.87 |
| Ethylbenzene | 1.6E+02 | 1.5E+05 | 1.6E+02 | **1.98** | <1.39 | <1.39 | <1.39 | <1.39 | <1.36 |
| Isopropylbenzene | NS | NS | NS | <1.42 | <1.42 | <1.42 | <1.42 | <1.42 | <1.39 |
| Methylene Chloride | 4.1E+02 | 5.8E+04 | 4.1E+02 | <1.35 | <1.35 | <1.35 | <1.35 | <1.35 | <1.32 |
| Methyl-t-butyl ether | 1.6E+03 | 4.4E+05 | 1.6E+03 | <2.36 | <2.36 | <2.36 | <2.36 | <2.36 | <2.31 |
| Naphthalene | 1.2E+01 | 4.4E+02 | 1.2E+01 | **1,050** | **1,210** | **16.5** | **7.13** | <1.48 | <1.45 |
| o-Xylene | NS | NS | NS | **4.18 J** | **1.57 J** | <1.34 | <1.34 | <1.34 | <1.32 |
| p & m-Xylene | NS | NS | NS | **5.12 J** | **2.23 J** | **2.27** | <1.34 | <1.34 | <1.32 |
| Tetrachloroethene | 6.7E+01 | 5.8E+03 | 6.7E+01 | **54.6 J** | **21.8 J** | **3.71** | **2.8** | **301** | <1.13 |
| Toluene | NS | 4.4E+04 | 4.4E+04 | **16.8 J** | **4.56 J** | <2.95 | **3.94** | **5.7** | <2.69 |
| TPH C10-C15 | NS | 3.7E+04 | 3.7E+04 | **1,610** | **1,660** | <342 | <342 | <342 | <335 |
| TPH C4-C9 | NS | 8.3E+04 | 8.3E+04 | **763** | <400 | **678** | <400 | <400 | <392 |
| trans-1,2-Dichloroethene | NS | 1.2E+04 | 1.2E+04 | <1.07 | <1.07 | **17.9** | <1.07 | **12.6** | <1.05 |
| Trichloroethene | 1.0E+02 | 2.9E+02 | 1.0E+02 | **92.1 J** | **53.9 J** | **344** | **149** | **6,440** | <1.4 |
| Vinyl Chloride | 5.2E+00 | 1.5E+04 | 5.2E+00 | <0.58 | <0.58 | <0.58 | <0.58 | <0.58 | <0.57 |

**Notes:**

Yellow shaded concentrations exceed the minimum of the SFBRWQCB 2019 VI HHRL Commercial/Industrial Cancer and Non-Cancer ESL.

< = Not detected above laboratory reporting limit.

**Bold** = Detected concentration.

ESL = Environmental Screening Level.

HHRL = Human Health Risk Level.

NS = No standard established.

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board.

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Volatile organic compounds (VOCs) and Total Petroluem Hydrocarbons (TPH) analyzed by United States Protection Agency (USEPA) Method 8260C.

When the applicable state standard applies to mixed isomers and the laboratory reports individual isomers, the total standard is listed for each isomer.

µg/m³ = Micrograms per cubic meter.

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

[1]San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion; Human Health Risk Levels (Table SG-1), January 2019.

[2]DUP-01 duplicate sample of primary sample PSG-10A.

[3]DUP-02 duplicate sample of primary sample PSG-62A.

# FIGURES

1. Site Location Map
2. Site Plan with Historical and Recent Sampling Locations
3. Geologic Map
4. Groundwater Elevation Contours – Third Quarter 2024
5. Soil and Grab Groundwater Sampling Locations – 2024 Data Gap Investigation
6. Active Soil Vapor Probe and Passive Soil Vapor Step Out Sampling Locations – 2024 Data Gap Investigation
7. Total Metal Exceedances in Soil – 2024 Data Gap Investigation
8. VOC, SVOC, and TPH Exceedances in Soil – 2024 Data Gap Investigation
9. PCB Exceedances in Soil – 2024 Data Gap Investigation
10. Total and Dissolved Metal Exceedances in Grab Groundwater – 2024 Data Gap Investigation
11. VOC and TPH Exceedances in Grab Groundwater – 2024 Data Gap Investigation
12. VOC and TPH Exceedances in Active and Passive Soil Vapor – 2024 Data Gap Investigation

13a. Heat Map of PCE in Passive Soil Vapor – 2024 Data Gap Investigation

13b. Isocontours of PCE in Active Soil Vapor – 2024 Data Gap Investigation

14a. Heat Map of TCE in Passive Soil Vapor - 2024 Data Gap Investigation

14b. Isocontours of TCE in Active Soil Vapor – 2024 Data Gap Investigation

15a. Heat Map of Benzene in Passive Soil Vapor – 2024 Data Gap Investigation

15b. Isocontours of Benzene in Active Soil Vapor – 2024 Data Gap Investigation

16. Isocontour Map of Vinyl Chloride in Active Soil Vapor – 2024 Data Gap Investigation
17. Isocontour Map of TPH-g in Active Soil Vapor – 2024 Data Gap Investigation







QUADRANGLE LOCATIONS

SOURCE:
USGS; Oakland East, CA (2021)
and San Leandro, CA (2021)
7.5-Minute Topographic Quadrangles

N

0 2000'

Title:

# SITE LOCATION MAP

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | | |
|---|---|---|
| Compiled by: H.R. | Date: 08JUL22 | FIGURE |
| Prepared by: B.H.C. | Scale: AS SHOWN | 1 |
| Project Mgr: H.R. | Project: 2968.0018L000 | |
| File: 2968.0018LTEMP.01.CDR | | |

\2968L\0018L\TEMP\2968.0018LTEMP.01.CDR




LEGEND

- Approximate Site Boundary
- Cupola Area
- Identifiable Pit Location
- Former Buildings
- Bio Swale Soil Boring (Roux, 2024)
- CPT Location (Langan, 2024)
- CPT borings (Ivasa, 2022)
- Environmental Soil Boring Sample Location (Hailey and Aldrich, 2022)
- Geotech Soil Boring (IVASA, 2022)
- Soil Boring (The Source Group, Inc. [SGI], 2008)
- 150' Grid Soil Boring (Roux, 2024)
- Utility Corridor Soil Boring (Roux, 2024)
- Existing Groundwater Monitoring Well (Roux, 2023)
- Decommissioned Groundwater Monitoring Well (BSK, 1993, 2006)
- Soil and Grab Groundwater Sampling Location (Roux, 2024)
- Passive Soil Vapor Step Out Sample Location (Roux, 2024)
- Active Soil Vapor Probe Location (Roux, 2024)
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Soil Gas Sampling Location (Roux, 2024)
- Historical Passive Soil Vapor Sample Locations (Roux, 2023)

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. 1,1,1-TCA = 1,1,1-Trichloroethane.
4. Cone penetration test.
5. UST = Underground storage tank.

N

75 0 75'

Title:

# SITE PLAN WITH HISTORICAL AND RECENT SAMPLING LOCATIONS

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 09/30/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F2(CP) | |

FIGURE 2

\\SRVLTNLPTILIMITED\CA GIS\1793 - PROLOGIS\0030\0000\F2\CLIS\TEP\JW_HISTORICAL_RECENT_SAMPLES.MXD

SCALE 1:50000

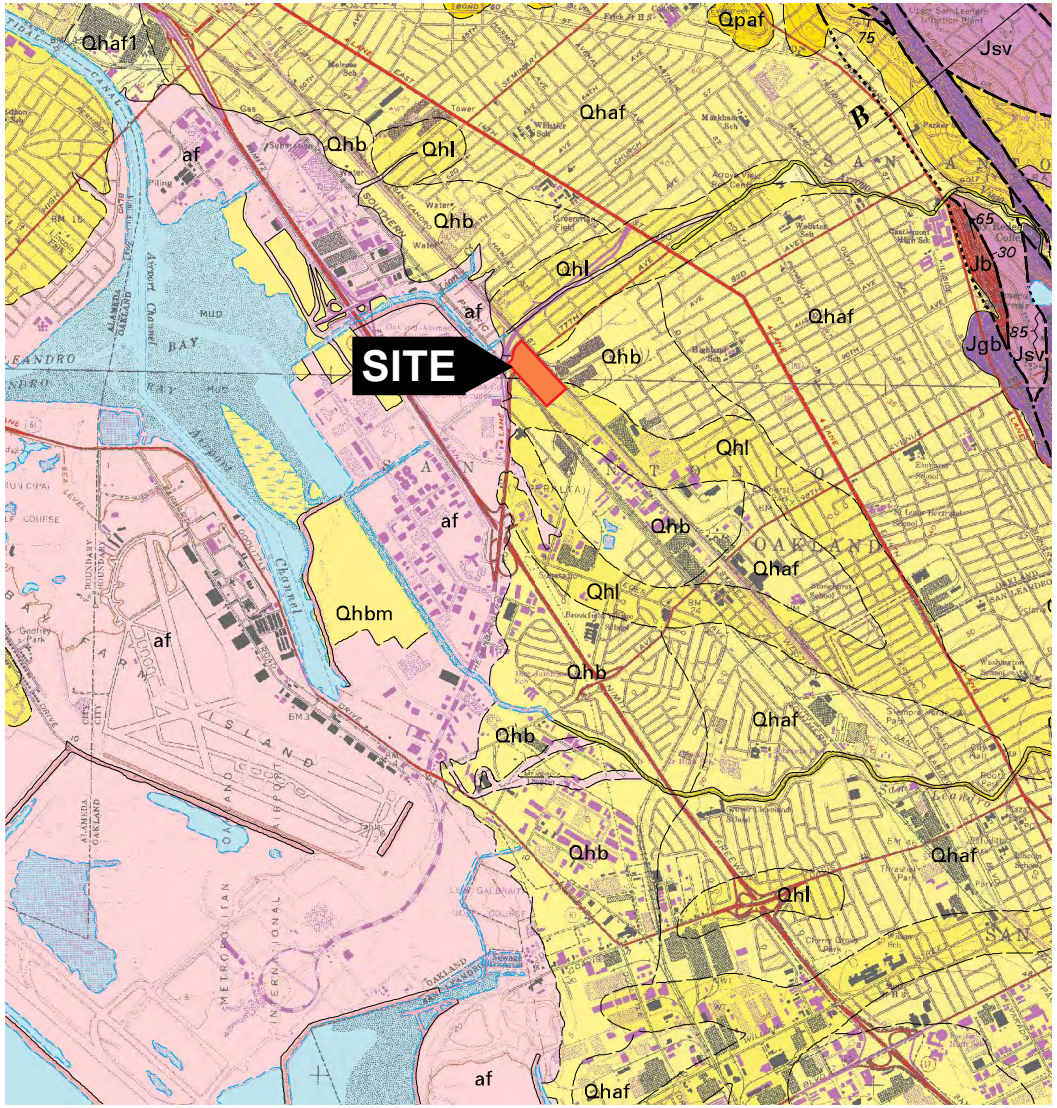
1 .5 0 1 2 3 4 5 MILE

1 .5 0 1 2 3 4 5 KILOMETER

0 1 2 3 4 5 6 7 8 9 10 11 THOUSAND FEET

16.5°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1980

CONTOUR INTERVAL 50 METERS




Source: Graymer, R.W., 2000, Geologic Map and Database of the Oakland Metropolitan Area, Alameda, Contra Costa, and San Francisco Counties, California. United States Geological Survey.

## LEGEND

| | |
|---|---|
| af | Artificial fill (Historic) |
| Qhaf | Alluvial fan and fluvial deposits (Holocene) |
| Qhb | Basin deposits (Holocene) |
| Qhbm | Bay mud (Holocene) |
| Qhl | Natural levee deposits (Holocene) |
| Qpaf | Alluvial fan and fluvial deposits (Pleistocene) |
| Jb | Massive basalt and diabase |
| Jgb | Gabbro |
| Jsv | Keratophyre and quartz keratophyre (Late Jurassic) |

**Contact**-- Depositional or intrusive contact, dashed where approximately located, dotted where concealed

35 — **Strike and dip of bedding**

Title:

# GEOLOGIC MAP

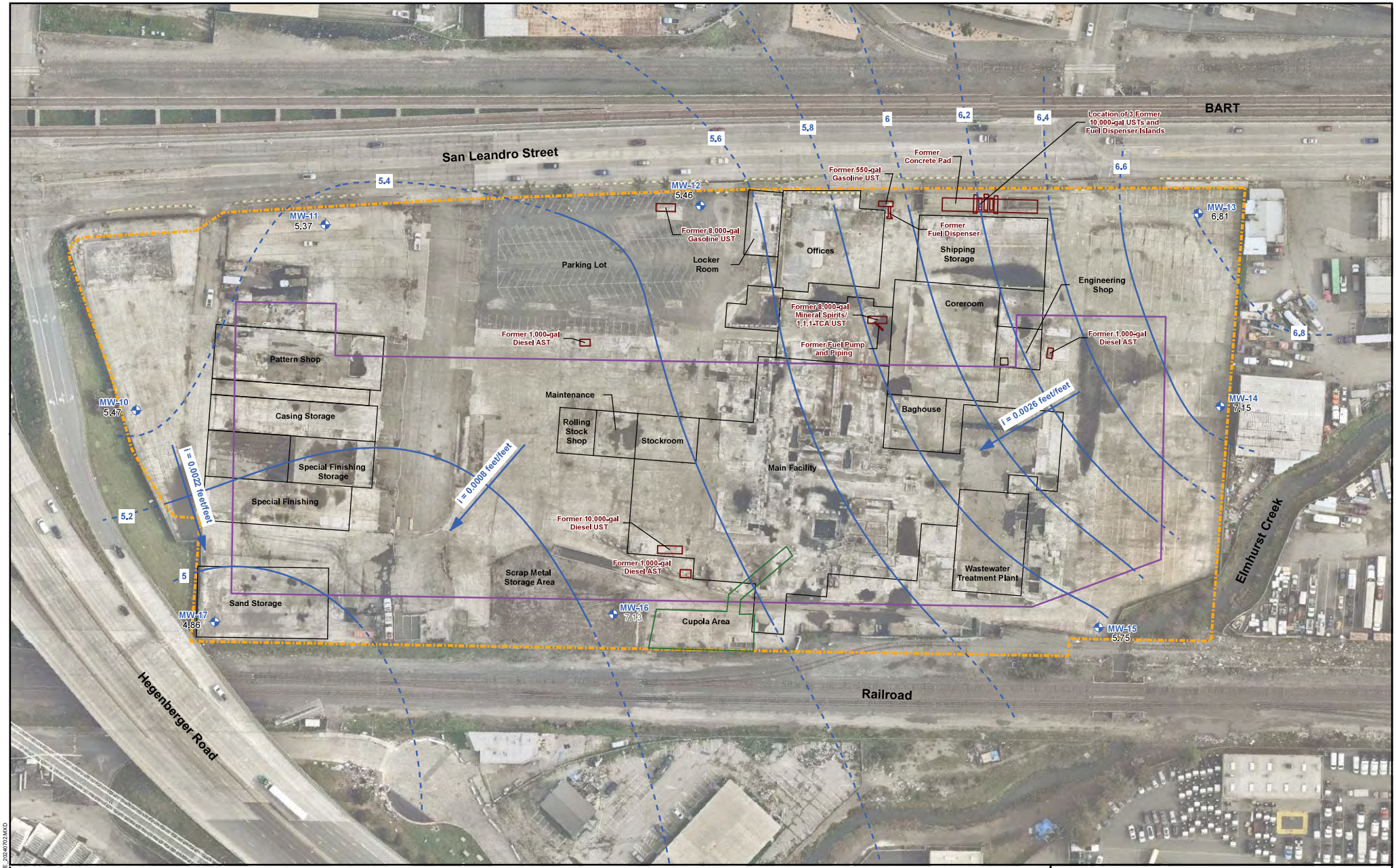
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | | | |
|---|---|---|---|
| Compiled by: J.O. | Date: 10JULY2024 | FIGURE |
| Prepared by: J.O. | Scale: AS SHOWN | 3 |
| Project Mgr: J.O. | Project: 2968.0030S000 | |
| File: Figure 3_Geologic Map.pdf | | |




LEGEND

- Groundwater Sample Location (ID, Elev.)
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- Former Buildings
- Groundwater Elevation Contour
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. Groundwater elevations referenced to North American Vertical Datum (NAVD88).
3. i = Approximate hydraulic gradient.
4. 1,1-TCA = 1,1-Trichloroethane
   ft = feet
   gal = gallon
   UST = underground storage tank
5. Groundwater elevation data from MW-16 is excluded from groundwater contouring due to an anomalous groundwater level measurement from this well.
6. Groundwater well gauging data was collected July 2, 2024.
7. All buildings have been demolished as of December 2023.

N

75 0 75'

Title:

# GROUNDWATER ELEVATION CONTOURS – THIRD QUARTER 2024

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

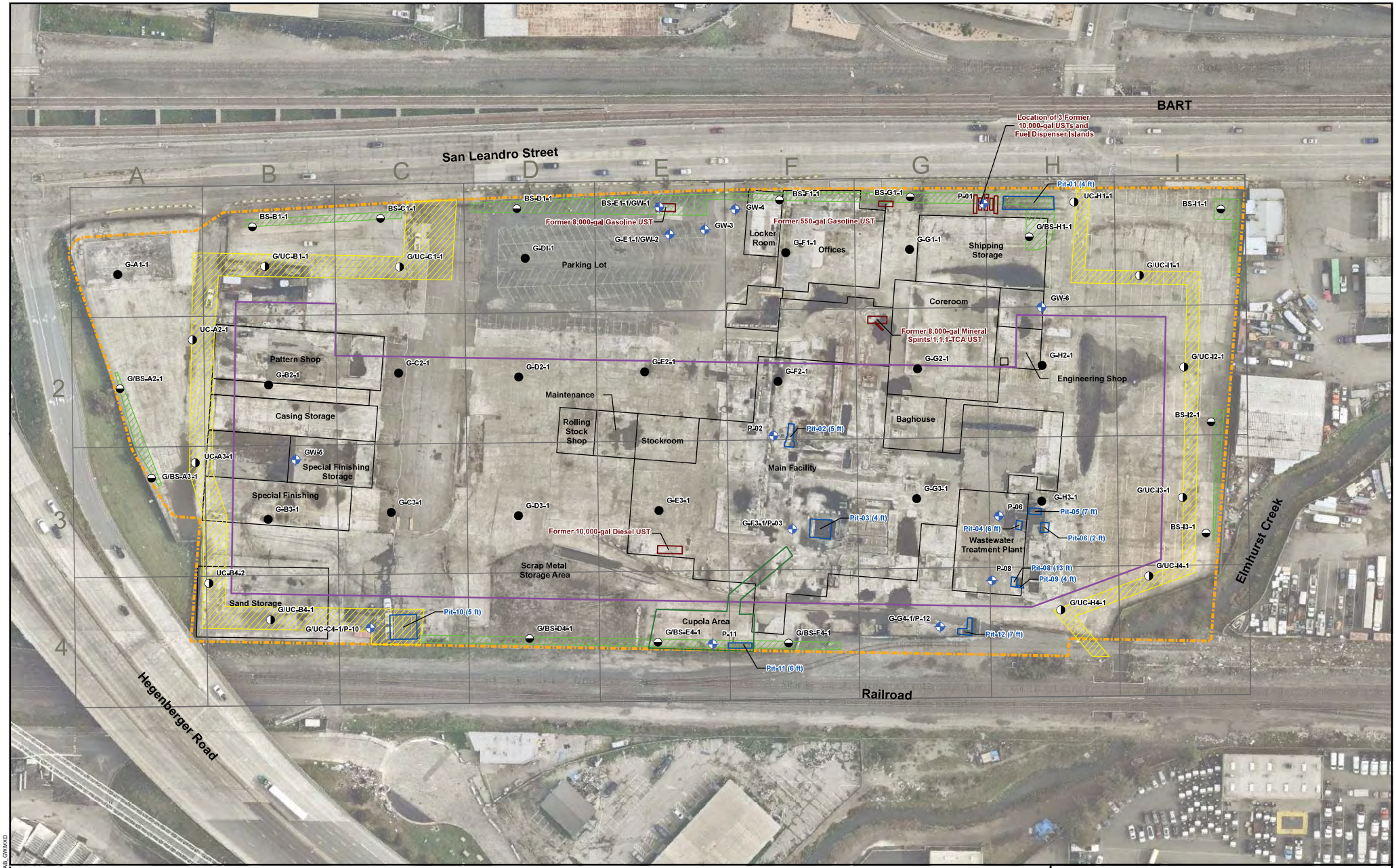
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: A.V. | Date: 09/06/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F3(CP) | |

FIGURE 4

\\SRVLTNLFP1\LIMITED\CA GIS\1793 - PROLOGIS\0030\0200\F3\CL\CL.GWE_20240702.MXD




LEGEND

- Approximate Site Boundary
- Proposed Building Footprint
- Identifiable Pit Location
- Proposed Bio Swale
- Proposed Utility Corridor
- Former Buildings
- Bio Swale Soil Boring
- 150' Grid Soil Boring
- Utility Corridor Soil Boring
- Soil and Grab Groundwater Sampling Location

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. 150' X 150' grid established across the Site.
4. 1,1-TCA = 1,1-Trichloroethane.
   ft = feet.
   gal = gallon.
   UST = underground storage tank.

75 0 75'

Title:

# SOIL AND GRAB GROUNDWATER SAMPLING LOCATIONS - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

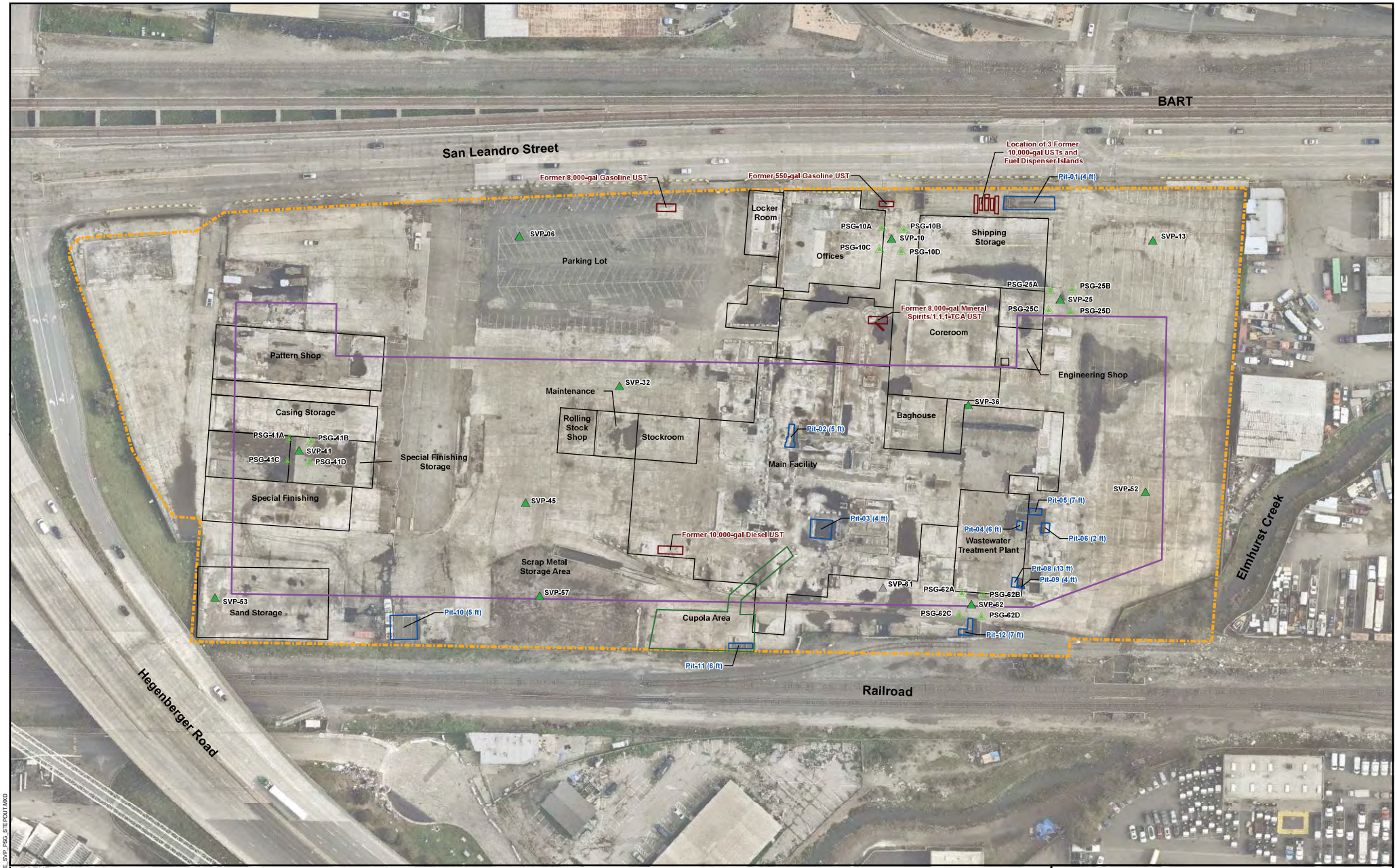
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 09/06/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F5(CL) | |

FIGURE 5

\\SRVLTNLPFIL\IMITED\CA GIS\1793 - PROLOGIS\0030\0005\ACL\SO_GRAB_GWMXD




LEGEND

- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- Identifiable Pit Location
- Former Buildings
- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed
- Passive Soil Vapor Step Out Sample Location

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. 1,1-TCA = 1,1-Trichloroethane.
   ft = feet.
   gal = gallon.
   UST = underground storage tank.
4. Typical Step-Out Sampling Layout:

PSG-#A PSG-#B
PSG-#C PSG-#D
25' TYP.

N

75 0 75'

Title:

# ACTIVE SOIL VAPOR PROBE AND PASSIVE SOIL VAPOR STEP OUT SAMPLING LOCATIONS - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

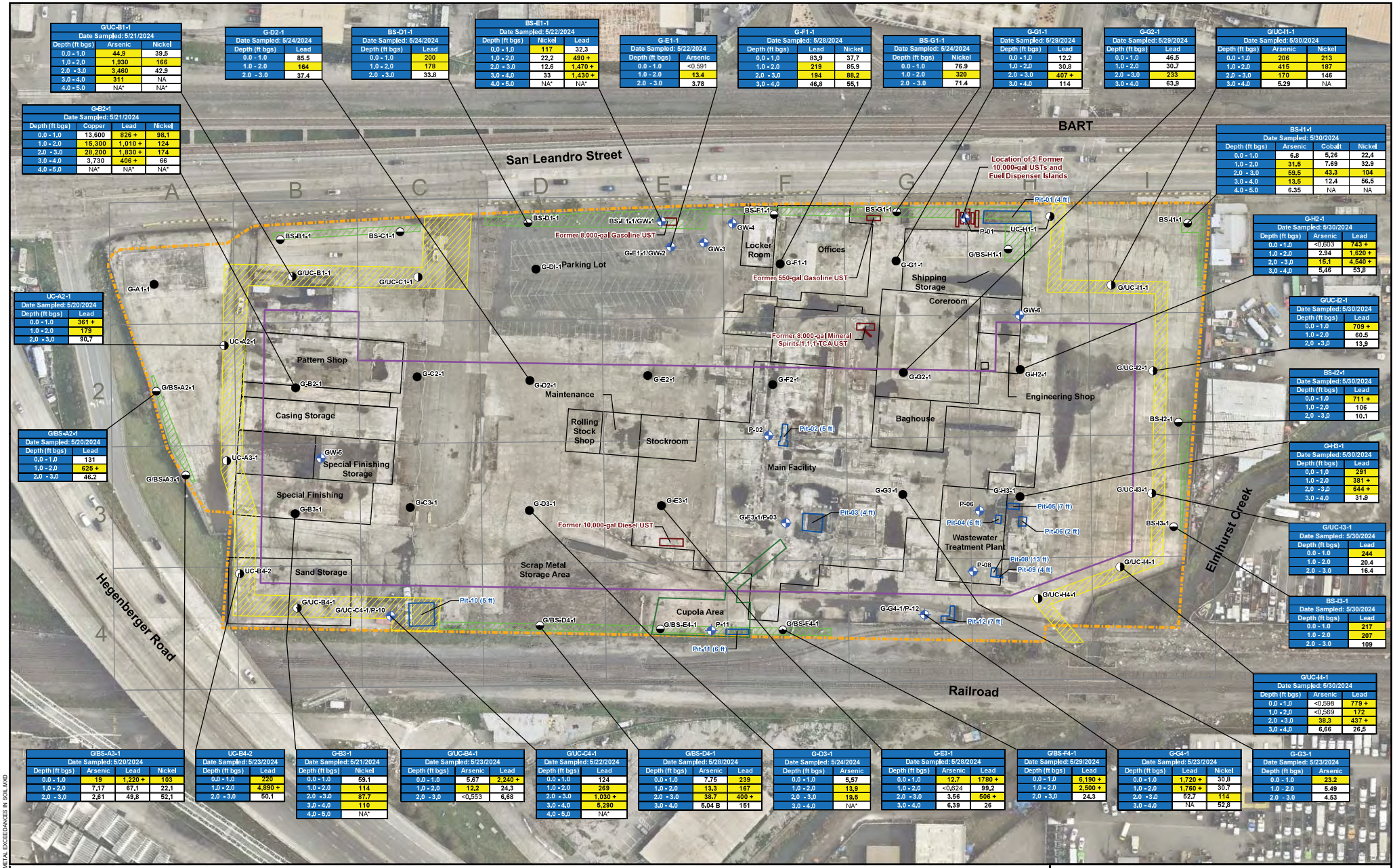
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 09/30/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F6(CL) | |

FIGURE 6

\\SRVLTNLPFILIMITED\CA GIS\1793 - PROLOGIS\0030\000\F6\CL\ACTIVE_SVP_PSG_STEPOUT.MXD




| G/UC-B1-1 | | |
|---|---|---|
| Date Sampled: 5/21/2024 | | |
| Depth (ft bgs) | Arsenic | Nickel |
| 0,0 - 1,0 | 44,9 | 39,5 |
| 1,0 - 2,0 | 1,930 | 166 |
| 2,0 - 3,0 | 3,460 | 42,9 |
| 3,0 - 4,0 | 311 | NA |
| 4,0 - 5,0 | NA* | NA* |

| G-D2-1 | |
|---|---|
| Date Sampled: 5/24/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 85,5 |
| 1,0 - 2,0 | 164 |
| 2,0 - 3,0 | 37,4 |

| BS-D1-1 | |
|---|---|
| Date Sampled: 5/24/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 200 |
| 1,0 - 2,0 | 178 |
| 2,0 - 3,0 | 33,8 |

| BS-E1-1 | | |
|---|---|---|
| Date Sampled: 5/22/2024 | | |
| Depth (ft bgs) | Nickel | Lead |
| 0,0 - 1,0 | 117 | 32,3 |
| 1,0 - 2,0 | 22,2 | 490 + |
| 2,0 - 3,0 | 12,6 | 1,470 + |
| 3,0 - 4,0 | 33 | 1,430 + |
| 4,0 - 5,0 | NA* | NA* |

| G-E1-1 | |
|---|---|
| Date Sampled: 5/22/2024 | |
| Depth (ft bgs) | Arsenic |
| 0,0 - 1,0 | <0,591 |
| 1,0 - 2,0 | 13,4 |
| 2,0 - 3,0 | 3,78 |

| G-F1-1 | | |
|---|---|---|
| Date Sampled: 5/28/2024 | | |
| Depth (ft bgs) | Lead | Nickel |
| 0,0 - 1,0 | 83,9 | 37,7 |
| 1,0 - 2,0 | 219 | 85,9 |
| 2,0 - 3,0 | 194 | 88,2 |
| 3,0 - 4,0 | 46,8 | 55,1 |

| BS-G1-1 | |
|---|---|
| Date Sampled: 5/24/2024 | |
| Depth (ft bgs) | Nickel |
| 0,0 - 1,0 | 76,9 |
| 1,0 - 2,0 | 320 |
| 2,0 - 3,0 | 71,4 |

| G-G1-1 | |
|---|---|
| Date Sampled: 5/29/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 12,2 |
| 1,0 - 2,0 | 30,8 |
| 2,0 - 3,0 | 407 + |
| 3,0 - 4,0 | 114 |

| G-G2-1 | |
|---|---|
| Date Sampled: 5/29/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 46,5 |
| 1,0 - 2,0 | 30,7 |
| 2,0 - 3,0 | 233 |
| 3,0 - 4,0 | 63,9 |

| G/UC-I1-1 | | |
|---|---|---|
| Date Sampled: 5/30/2024 | | |
| Depth (ft bgs) | Arsenic | Nickel |
| 0,0 - 1,0 | 206 | 213 |
| 1,0 - 2,0 | 415 | 187 |
| 2,0 - 3,0 | 170 | 146 |
| 3,0 - 4,0 | 5,29 | NA |

| G-B2-1 | | | |
|---|---|---|---|
| Date Sampled: 5/21/2024 | | | |
| Depth (ft bgs) | Copper | Lead | Nickel |
| 0,0 - 1,0 | 13,600 | 826 + | 98,1 |
| 1,0 - 2,0 | 15,300 | 1,010 + | 124 |
| 2,0 - 3,0 | 28,200 | 1,830 + | 174 |
| 3,0 - 4,0 | 3,730 | 406 + | 66 |
| 4,0 - 5,0 | NA* | NA* | NA* |

| BS-I1-1 | | | |
|---|---|---|---|
| Date Sampled: 5/30/2024 | | | |
| Depth (ft bgs) | Arsenic | Cobalt | Nickel |
| 0,0 - 1,0 | 6,8 | 5,26 | 22,4 |
| 1,0 - 2,0 | 31,5 | 7,69 | 32,9 |
| 2,0 - 3,0 | 59,5 | 43,3 | 104 |
| 3,0 - 4,0 | 13,5 | 12,4 | 56,5 |
| 4,0 - 5,0 | 6,35 | NA | NA |

| G-H2-1 | | |
|---|---|---|
| Date Sampled: 5/30/2024 | | |
| Depth (ft bgs) | Arsenic | Lead |
| 0,0 - 1,0 | <0,893 | 743 + |
| 1,0 - 2,0 | 2,84 | 1,530 + |
| 2,0 - 3,0 | 15,1 | 4,540 + |
| 3,0 - 4,0 | 5,46 | 53,8 |

| UC-A2-1 | |
|---|---|
| Date Sampled: 5/20/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 361 + |
| 1,0 - 2,0 | 179 |
| 2,0 - 3,0 | 90,7 |

| G/UC-I2-1 | |
|---|---|
| Date Sampled: 5/30/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 709 + |
| 1,0 - 2,0 | 60,5 |
| 2,0 - 3,0 | 13,9 |

| BS-I2-1 | |
|---|---|
| Date Sampled: 5/30/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 711 + |
| 1,0 - 2,0 | 106 |
| 2,0 - 3,0 | 10,1 |

| G/BS-A2-1 | |
|---|---|
| Date Sampled: 5/20/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 131 |
| 1,0 - 2,0 | 625 + |
| 2,0 - 3,0 | 46,2 |

| G-H3-1 | |
|---|---|
| Date Sampled: 5/30/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 231 |
| 1,0 - 2,0 | 381 + |
| 2,0 - 3,0 | 644 + |
| 3,0 - 4,0 | 31,9 |

| G/UC-I3-1 | |
|---|---|
| Date Sampled: 5/30/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 244 |
| 1,0 - 2,0 | 20,4 |
| 2,0 - 3,0 | 16,4 |

| BS-I3-1 | |
|---|---|
| Date Sampled: 5/30/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 217 |
| 1,0 - 2,0 | 207 |
| 2,0 - 3,0 | 109 |

| G/UC-I4-1 | | |
|---|---|---|
| Date Sampled: 5/30/2024 | | |
| Depth (ft bgs) | Arsenic | Lead |
| 0,0 - 1,0 | <0,598 | 779 + |
| 1,0 - 2,0 | <0,569 | 172 |
| 2,0 - 3,0 | 38,3 | 437 + |
| 3,0 - 4,0 | 6,66 | 26,5 |

| G/BS-A3-1 | | | |
|---|---|---|---|
| Date Sampled: 5/20/2024 | | | |
| Depth (ft bgs) | Arsenic | Lead | Nickel |
| 0,0 - 1,0 | 19 | 1,220 + | 103 |
| 1,0 - 2,0 | 7,17 | 67,1 | 22,1 |
| 2,0 - 3,0 | 2,61 | 49,8 | 52,1 |

| UC-B4-2 | | |
|---|---|---|
| Date Sampled: 5/23/2024 | | |
| Depth (ft bgs) | Lead | |
| 0,0 - 1,0 | 220 | |
| 1,0 - 2,0 | 4,890 + | |
| 2,0 - 3,0 | 50,1 | |

| G-B3-1 | | |
|---|---|---|
| Date Sampled: 5/21/2024 | | |
| Depth (ft bgs) | Nickel | |
| 0,0 - 1,0 | 59,1 | |
| 1,0 - 2,0 | 114 | |
| 2,0 - 3,0 | 87,7 | |
| 3,0 - 4,0 | 110 | |
| 4,0 - 5,0 | NA* | |

| G/UC-B4-1 | | |
|---|---|---|
| Date Sampled: 5/23/2024 | | |
| Depth (ft bgs) | Arsenic | Lead |
| 0,0 - 1,0 | 5,67 | 2,240 + |
| 1,0 - 2,0 | 12,2 | 24,3 |
| 2,0 - 3,0 | <0,553 | 6,68 |

| G/UC-C4-1 | |
|---|---|
| Date Sampled: 5/22/2024 | |
| Depth (ft bgs) | Lead |
| 0,0 - 1,0 | 124 |
| 1,0 - 2,0 | 269 |
| 2,0 - 3,0 | 1,030 + |
| 3,0 - 4,0 | 5,290 |
| 4,0 - 5,0 | NA* |

| G/BS-D4-1 | | |
|---|---|---|
| Date Sampled: 5/28/2024 | | |
| Depth (ft bgs) | Arsenic | Lead |
| 0,0 - 1,0 | 7,75 | 239 |
| 1,0 - 2,0 | 13,3 | 167 |
| 2,0 - 3,0 | 38,7 | 400 + |
| 3,0 - 4,0 | 5,04 B | 151 |

| G-D3-1 | |
|---|---|
| Date Sampled: 5/24/2024 | |
| Depth (ft bgs) | Arsenic |
| 0,0 - 1,0 | 5,67 |
| 1,0 - 2,0 | 13,9 |
| 2,0 - 3,0 | 19,5 |
| 3,0 - 4,0 | NA* |

| G-E3-1 | | |
|---|---|---|
| Date Sampled: 5/28/2024 | | |
| Depth (ft bgs) | Arsenic | Lead |
| 0,0 - 1,0 | 12,7 | 1780 + |
| 1,0 - 2,0 | <0,624 | 99,2 |
| 2,0 - 3,0 | 3,56 | 506 + |
| 3,0 - 4,0 | 6,39 | 26 |

| G/BS-F4-1 | | |
|---|---|---|
| Date Sampled: 5/29/2024 | | |
| Depth (ft bgs) | Lead | |
| 0,0 - 1,0 | 6,190 + | |
| 1,0 - 2,0 | 2,500 + | |
| 2,0 - 3,0 | 24,3 | |

| G-G4-1 | | |
|---|---|---|
| Date Sampled: 5/23/2024 | | |
| Depth (ft bgs) | Lead | Nickel |
| 0,0 - 1,0 | 1,720 + | 30,8 |
| 1,0 - 2,0 | 1,760 + | 30,7 |
| 2,0 - 3,0 | 52,7 | 114 |
| 3,0 - 4,0 | NA | 52,8 |

| G-G3-1 | |
|---|---|
| Date Sampled: 5/23/2024 | |
| Depth (ft bgs) | Arsenic |
| 0,0 - 1,0 | 23,2 |
| 1,0 - 2,0 | 5,49 |
| 2,0 - 3,0 | 4,53 |

LEGEND

- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- Identifiable Pit Location
- Proposed Bio Swale
- Proposed Utility Corridor
- Former Buildings
- Bio Swale Soil Boring
- 150' Grid Soil Boring
- Utility Corridor Soil Boring
- Soil and Grab Groundwater Sampling Location

| Screening Level | Accepted Background Concentrations | Construction Worker ESLs | Commercial/Industrial ESLs |
|---|---|---|---|
| Total Metals | mg/kg | | |
| Arsenic | 1.1E+01 | 9.8E-01 | 3.1E-01 |
| Cobalt | Not applicable | 2.8E+01 | 3.5E+02 |
| Copper | Not applicable | 1.4E+04 | 4.7E+04 |
| Lead | Not applicable | 1.6E+02 | 3.2E+02 |
| Nickel | Not applicable | 8.6E+01 | 1.1E+04 |

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. 150' X 150' grid established across the Site.
4. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.
5. Arsenic concentrations are compared to the accepted background concentration for the San Francisco Bay Region as presented in "Establishing Background Arsenic in Soil of The Urbanized San Francisco Bay Region" by Dylan Jacques Duverge, December 2011.
6. All concentrations are in milligrams per kilogram (mg/kg)
7. **Bold** = Detected Concentration.
8. Yellow shaded concentrations exceed the Construction Worker ESLs or accepted background concentrations.
9. + = concentration exceeds the Commercial/Industrial ESLs.
10. <X = Not detected at or above the method detection limit.
11. ft bgs = Feet below ground surface.
12. gal = gallon.
13. NA = Not analyzed.
14. NA* = Not analyzed due to lab disposing of sample without notice.
15. 1,1-TCA = 1,1-Trichloroethane
16. UST = Underground storage tank.

80 0 80'

Title:

# TOTAL METAL EXCEEDANCES IN SOIL - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

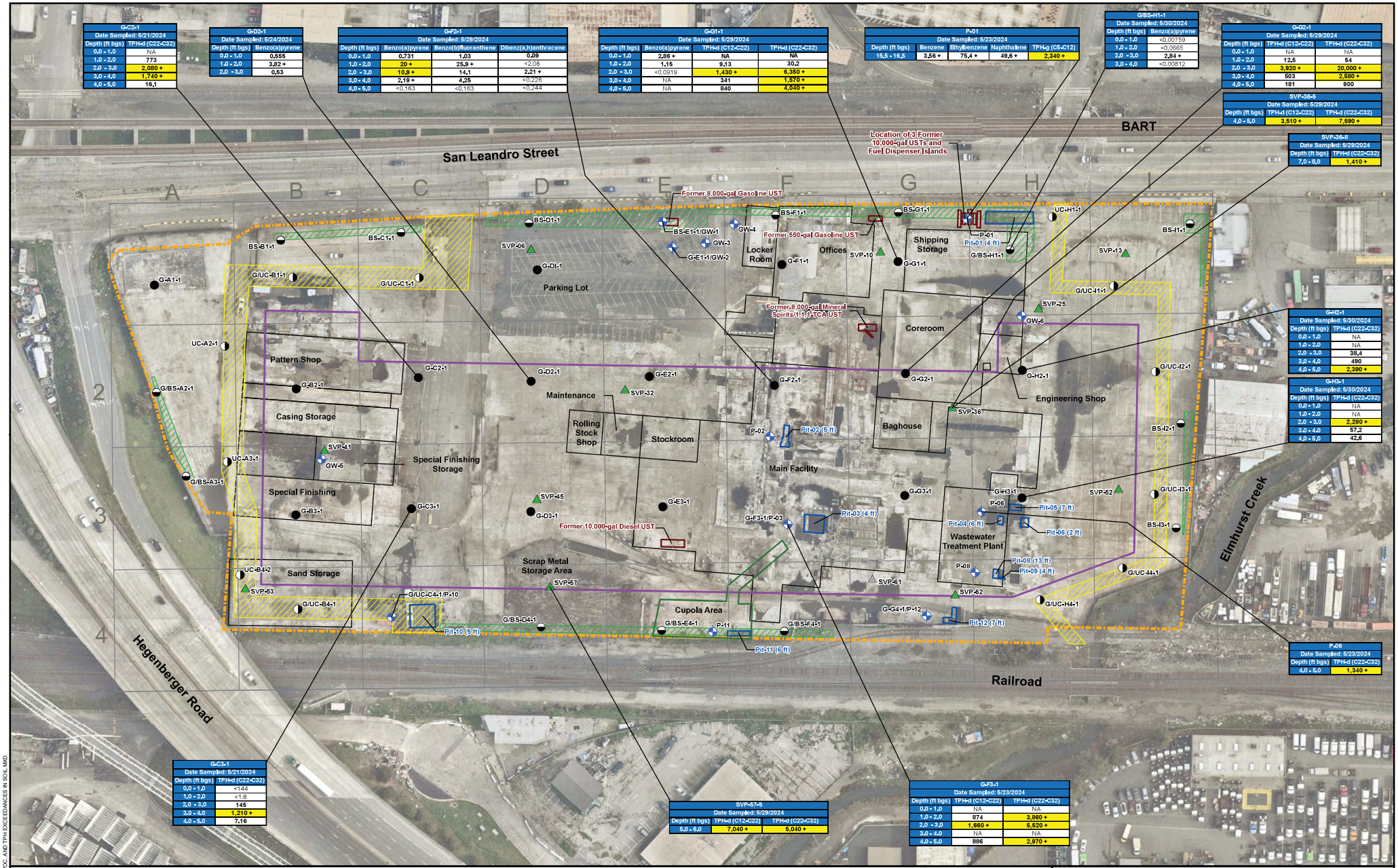
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.S.G. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F7(CL) | |

FIGURE 7

\\SNJ\TNJFP1\LIMITED\CAD\GIS\1793 - PROJ\GIS\0030S000\F7(CL)TOTAL METAL EXCEEDANCES IN SOIL.MXD




LEGEND

- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- Identifiable Pit Location
- Proposed Bio Swale
- Proposed Utility Corridor
- Former Buildings
- Bio Swale Soil Boring
- 150' Grid Soil Boring
- Utility Corridor Soil Boring
- Soil and Grab Groundwater Sampling Location
- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed

| Screening Level | Construction Worker ESLs | Commercial/Industrial ESLs |
|---|---|---|
| VOCs, SVOCs, & TPH | mg/kg | |
| Benzene | 3.3E+01 | 1.4E+00 |
| Benzo(a)pyrene | 1.0E+01 | 2.1E+00 |
| Benzo(b)fluoranthene | 1.1E+02 | 2.1E+01 |
| Dibenz(a,h)anthracene | 1.1E+01 | 2.1E+00 |
| Ethylbenzene | 5.4E+02 | 2.6E+01 |
| Naphthalene | 4.0E+02 | 1.7E+01 |
| TPH-g (C5-C12) | 1.8E+03 | 2.0E+03 |
| TPH-d (C12-C22) | 1.1E+03 | 1.2E+03 |
| TPH-d (C22-C32) | 1.1E+03 | 1.2E+03 |

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. 150' X 150' grid established across the Site.
4. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels (ESLs): Soil.
5. All concentrations are in milligrams per kilogram (mg/kg).
6. **Bold** = Detected concentration.
7. Yellow shaded concentrations exceed the Construction Worker ESLs.
8. + = Concentration exceeds the Commercial ESLs.
9. <X = Not detected at or above the method detection limit.
10. Ft bgs = Feet below ground surface.
11. gal = gallon.
12. NA = Not analyzed.
13. SVOC = semi volatile organic compound.
14. 1,1-TCA = 1,1-Trichloroethane.
15. TPH = total petroleum hydrocarbon.
16. TPH-g = total petroleum hydrocarbon as gasoline
17. TPH-d = total petroleum hydrocarbon as diesel
18. USEPA = United States Environmental Protection Agency.
19. UST = Underground storage tank.
20. VOC = volatile organic compound.

80 0 80'

Title:

# VOC, SVOC, AND TPH EXCEEDANCES IN SOIL - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

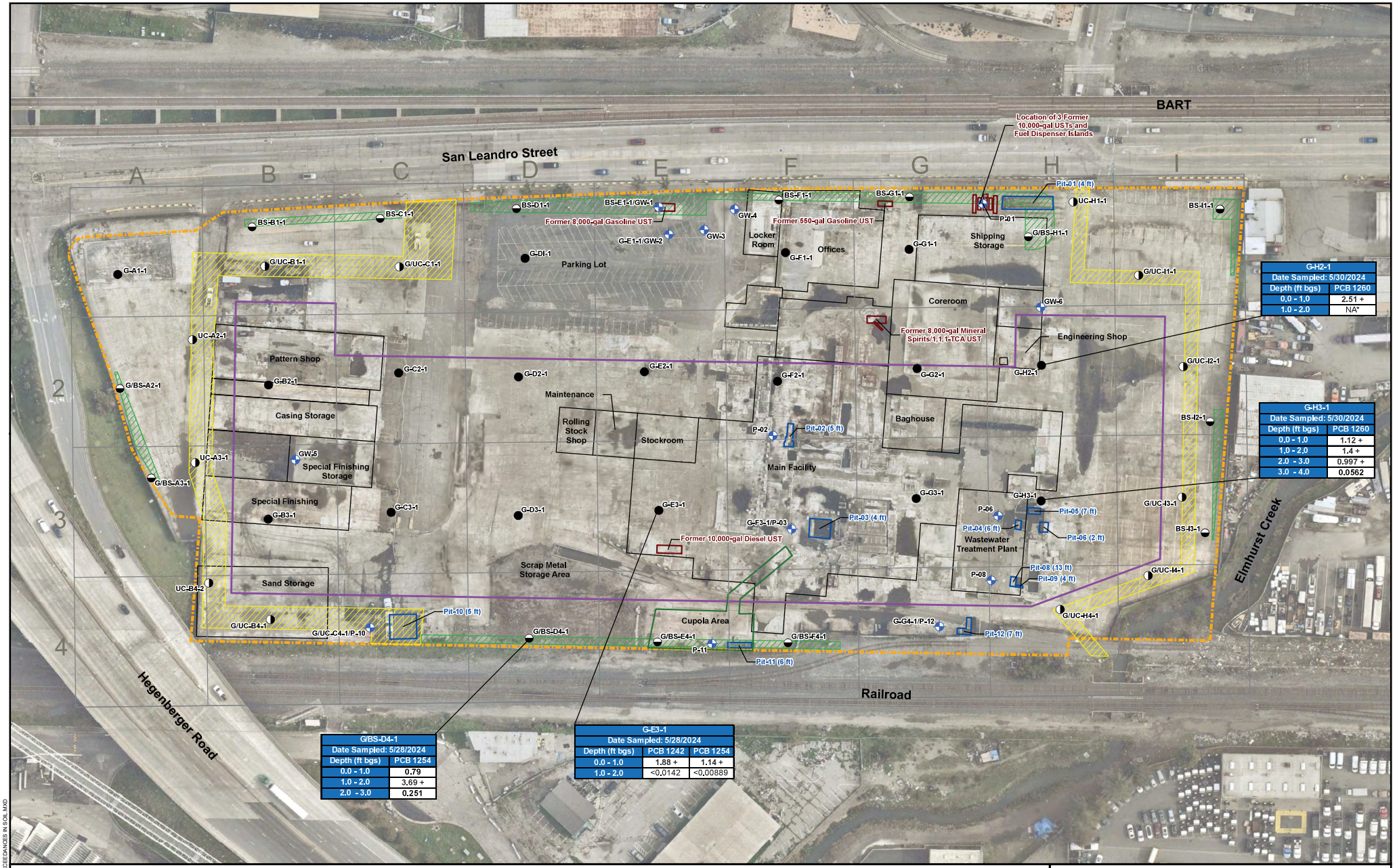
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.S.G. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F8(CL) | |

FIGURE 8

\\SRVLTNJFP1\LIMITED\CA GIS\1793 - PROJ\GIS\0030S000\MXD\F8(CL)VOC, SVOC, AND TPH EXCEEDANCES IN SOIL.MXD




| G-H2-1 | |
|---|---|
| Date Sampled: 5/30/2024 | |
| Depth (ft bgs) | PCB 1260 |
| 0.0 - 1.0 | 2.51 + |
| 1.0 - 2.0 | NA* |

| G-H3-1 | |
|---|---|
| Date Sampled: 5/30/2024 | |
| Depth (ft bgs) | PCB 1260 |
| 0.0 - 1.0 | 1.12 + |
| 1.0 - 2.0 | 1.4 + |
| 2.0 - 3.0 | 0.997 + |
| 3.0 - 4.0 | 0.0562 |

| G/BS-D4-1 | | |
|---|---|---|
| Date Sampled: 5/28/2024 | | |
| Depth (ft bgs) | PCB 1254 | |
| 0.0 - 1.0 | 0.79 | |
| 1.0 - 2.0 | 3.69 + | |
| 2.0 - 3.0 | 0.251 | |

| G-E3-1 | | |
|---|---|---|
| Date Sampled: 5/28/2024 | | |
| Depth (ft bgs) | PCB 1242 | PCB 1254 |
| 0.0 - 1.0 | 1.88 + | 1.14 + |
| 1.0 - 2.0 | <0.0142 | <0.00889 |

LEGEND

- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- Identifiable Pit Location
- Proposed Bio Swale
- Proposed Utility Corridor
- Former Buildings
- Bio Swale Soil Boring
- 150' Grid Soil Boring
- Utility Corridor Soil Boring
- Soil and Grab Groundwater Sampling Location

| Screening Level | Construction Worker ESLs | Commercial/Industrial ESLs |
|---|---|---|
| PCBs | mg/kg | |
| PCB 1242 | 5.5E+00 | 9.4E-01 |
| PCB 1254 | 5.5E+00 | 9.4E-01 |
| PCB 1260 | 5.5E+00 | 9.4E-01 |

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. 150' X 150' grid established across the Site.
4. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Soil Direct Human Exposure (Table S-1): Shallow Soil Exposure. January 2019.
5. All concentrations are in milligrams per kilogram (mg/kg).
6. **Bold** = Detected concentration.
7. + = concentration exceeds the Commercial/Industrial ESLs.
8. <X = Not detected at or above the method detection limit.
9. Ft bgs = Feet below ground surface.
10. gal = gallon.
11. NA* = Not analyzed due to lab disposing of sample without notice.
12. PCB = polychlorinated biphenyl.
13. 1,1-TCA = 1,1-Trichloroethane.
14. UST = underground storage tank.

75 0 75'

Title:

# PCB EXCEEDANCES IN SOIL - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

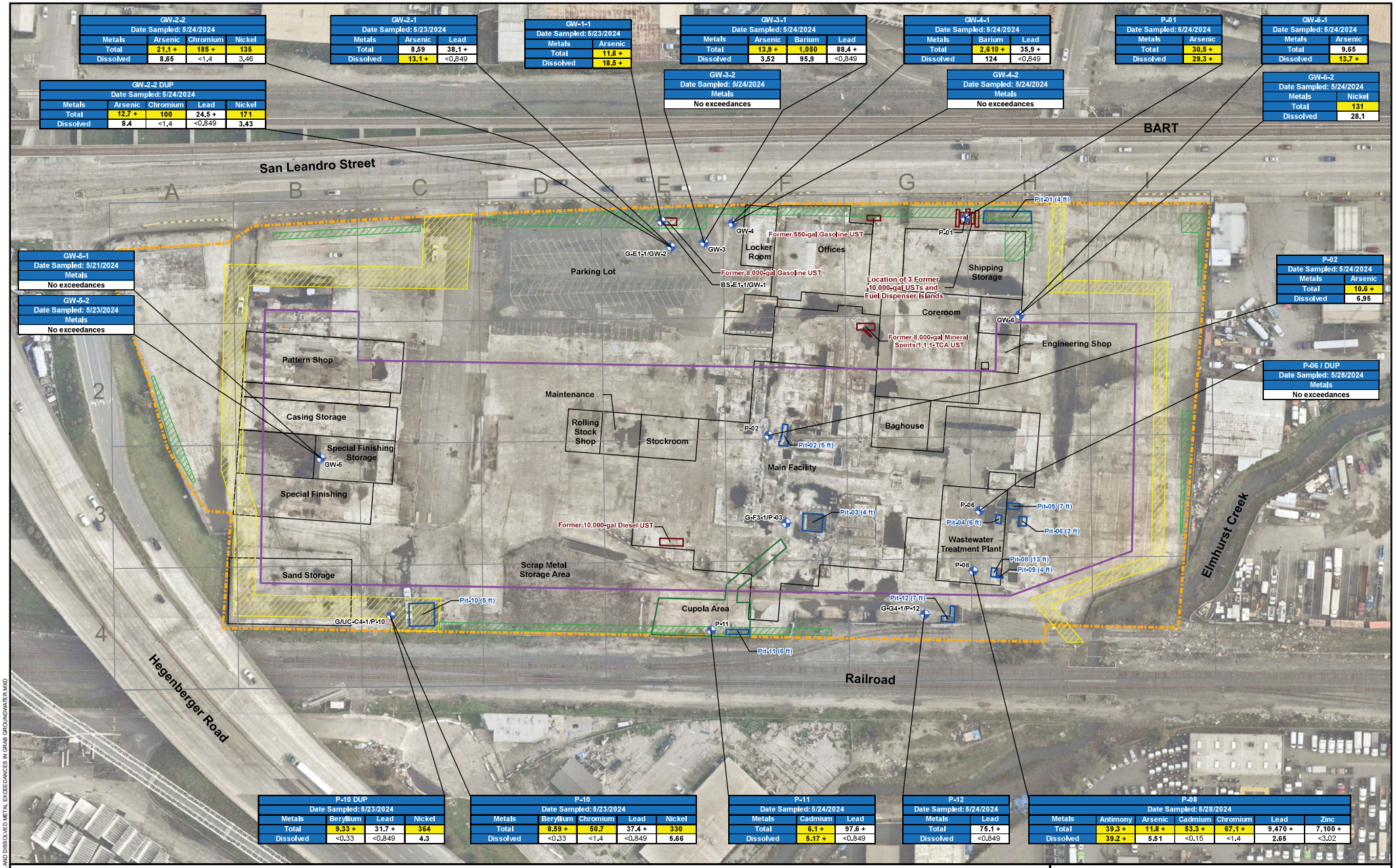
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.S.G. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F9(CL) | |

FIGURE 9

I:\SAN_FRANCISCO\1793\GIS\1793-PROJ\GIS\0030S000\MXD\F9(CL)PCB EXCEEDANCES IN SOIL.MXD




LEGEND

- Approximate Site Boundary
- Soil and Grab Groundwater Sampling Location
- Cupola Area
- Proposed Building Footprint
- Identifiable Pit Location
- Proposed Bio Swale
- Proposed Utility Corridor
- Former Buildings

| Screening Level | California MCL | EPA Federal MCL |
|---|---|---|
| Metals | | |
| Antimony | 6.0E+00 | 6.0E+00 |
| Arsenic | 1.0E+01 | 1.0E+01 |
| Barium | 1.0E+03 | 2.0E+03 |
| Beryllium | 4.0E+00 | 4.0E+00 |
| Cadmium | 5.0E+00 | 5.0E+00 |
| Chromium | 5.0E+01 | 1.0E+02 |
| Lead | NS | 1.5E+01 |
| Nickel | 1.0E+02 | NS |
| Zinc | NS | 5.0E+03 |

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. 150' X 150' grid established across the Site.
4. Title 22 Chapter 12 California and Federal MCLs for Regulated Drinking Water Contaminants. October 2018.
5. All concentrations are in micrograms per liter (µg/l).
6. **Bold** = Detected concentration.
7. Yellow shaded concentrations exceed the California MCLs.
8. + concentrations exceed the Federal MCLs.
9. <X = Not detected at or above the method detection limit.
10. 1,1-TCA = 1,1-Trichloroethane.
11. Ft bgs = Feet below ground surface.
12. gal = gallon.
13. MCL = Maximum Contaminant Level.
14. NS = No standard currently established.
15. USEPA = United States Environmental Protection Agency.
16. UST = Underground storage tank.

80 0 80'

Title:

# TOTAL AND DISSOLVED METAL EXCEEDANCES IN GRAB GROUNDWATER - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

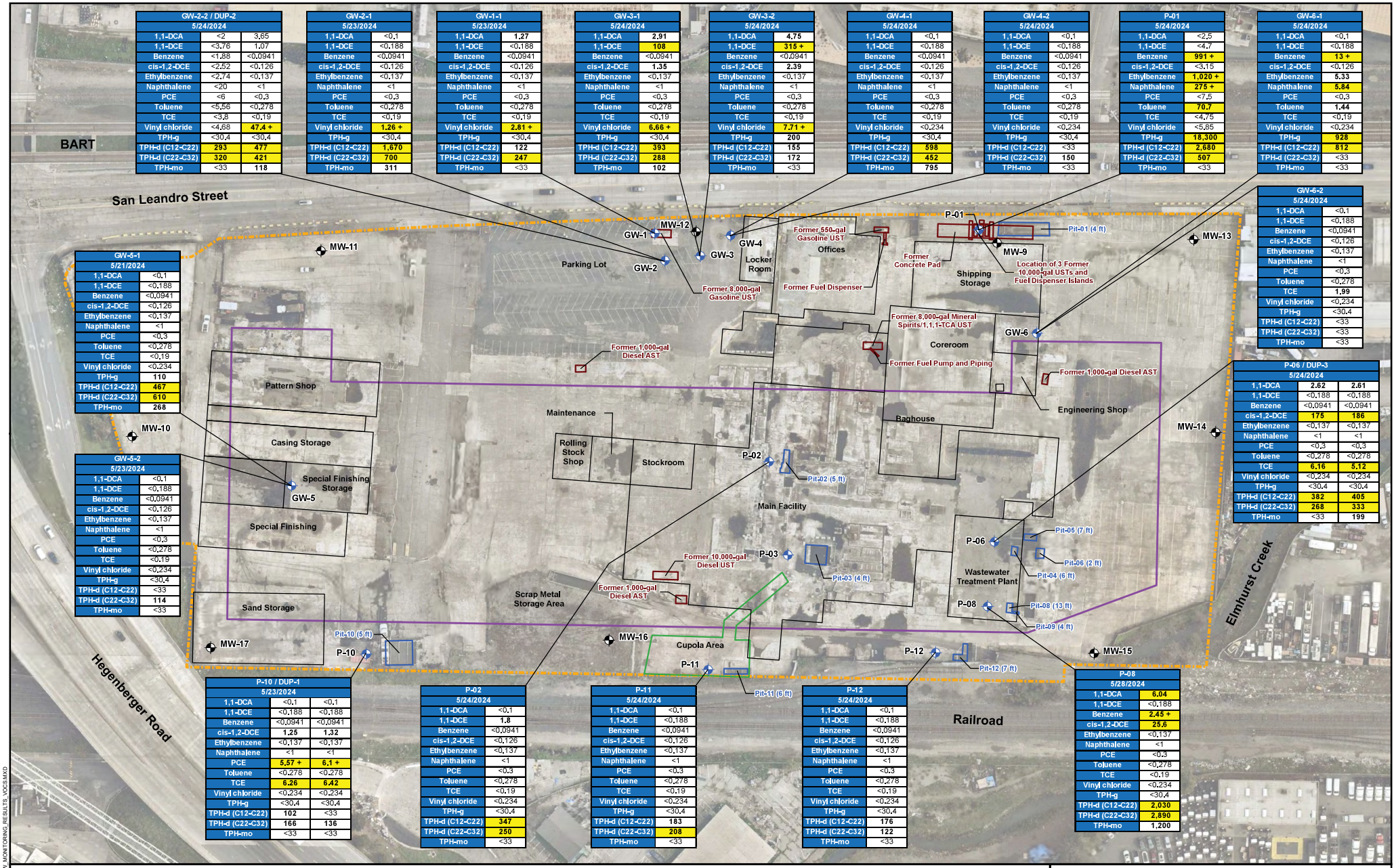
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.S.G. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F10(CL) | |

FIGURE 10

\\SRVLTNJFILMITED\CA GIS\1793 - PROJ\GIS\0030S000\MXD\F10(CL)TOTAL AND DISSOLVED METAL EXCEEDANCES IN GRAB GROUNDWATER.MXD




| GW-2-2 / DUP-2 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <2 / 3.65 |
| 1,1-DCE | <3.76 / 1.07 |
| Benzene | <1.88 / <0.0941 |
| cis-1,2-DCE | <2.52 / <0.126 |
| Ethylbenzene | <2.74 / <0.137 |
| Naphthalene | <20 / <1 |
| PCE | <6 / <0.3 |
| Toluene | <5.56 / <0.278 |
| TCE | <3.8 / <0.19 |
| Vinyl chloride | <4.68 / 47.4 + |
| TPH-g | <30.4 / <30.4 |
| TPH-d (C12-C22) | 293 / 477 |
| TPH-d (C22-C32) | 320 / 421 |
| TPH-mo | <33 / 118 |

| GW-2-1 | |
|---|---|
| 5/23/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | 1.26 + |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | 1,670 |
| TPH-d (C22-C32) | 700 |
| TPH-mo | 311 |

| GW-1-1 | |
|---|---|
| 5/23/2024 | |
| 1,1-DCA | 1.27 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | 2.81 + |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | 122 |
| TPH-d (C22-C32) | 247 |
| TPH-mo | <33 |

| GW-3-1 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | 2.91 |
| 1,1-DCE | 108 |
| Benzene | <0.0941 |
| cis-1,2-DCE | 1.35 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | 6.66 + |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | 393 |
| TPH-d (C22-C32) | 288 |
| TPH-mo | 102 |

| GW-3-2 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | 4.75 |
| 1,1-DCE | 315 + |
| Benzene | <0.0941 |
| cis-1,2-DCE | 2.39 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | 7.71 + |
| TPH-g | 200 |
| TPH-d (C12-C22) | 155 |
| TPH-d (C22-C32) | 172 |
| TPH-mo | <33 |

| GW-4-1 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | 598 |
| TPH-d (C22-C32) | 452 |
| TPH-mo | 795 |

| GW-4-2 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | <33 |
| TPH-d (C22-C32) | 150 |
| TPH-mo | <33 |

| P-01 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <2.5 |
| 1,1-DCE | <4.7 |
| Benzene | 991 + |
| cis-1,2-DCE | <3.15 |
| Ethylbenzene | 1,020 + |
| Naphthalene | 275 + |
| PCE | <7.5 |
| Toluene | 70.7 |
| TCE | <4.75 |
| Vinyl chloride | <5.85 |
| TPH-g | 18,300 |
| TPH-d (C12-C22) | 2,680 |
| TPH-d (C22-C32) | 507 |
| TPH-mo | <33 |

| GW-6-1 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | 13 + |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | 5.33 |
| Naphthalene | 5.84 |
| PCE | <0.3 |
| Toluene | 1.44 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | 928 |
| TPH-d (C12-C22) | 812 |
| TPH-d (C22-C32) | <33 |
| TPH-mo | <33 |

| GW-6-2 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | 1.99 |
| Vinyl chloride | <0.234 |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | <33 |
| TPH-d (C22-C32) | <33 |
| TPH-mo | <33 |

| GW-5-1 | |
|---|---|
| 5/21/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | 110 |
| TPH-d (C12-C22) | 467 |
| TPH-d (C22-C32) | 610 |
| TPH-mo | 268 |

| GW-5-2 | |
|---|---|
| 5/23/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | <33 |
| TPH-d (C22-C32) | 114 |
| TPH-mo | <33 |

| P-06 / DUP-3 | | |
|---|---|---|
| 5/24/2024 | | |
| 1,1-DCA | 2.62 | 2.61 |
| 1,1-DCE | <0.188 | <0.188 |
| Benzene | <0.0941 | <0.0941 |
| cis-1,2-DCE | 175 | 186 |
| Ethylbenzene | <0.137 | <0.137 |
| Naphthalene | <1 | <1 |
| PCE | <0.3 | <0.3 |
| Toluene | <0.278 | <0.278 |
| TCE | 6.16 | 5.12 |
| Vinyl chloride | <0.234 | <0.234 |
| TPH-g | <30.4 | <30.4 |
| TPH-d (C12-C22) | 382 | 405 |
| TPH-d (C22-C32) | 268 | 333 |
| TPH-mo | <33 | 199 |

| P-10 / DUP-1 | | |
|---|---|---|
| 5/23/2024 | | |
| 1,1-DCA | <0.1 | <0.1 |
| 1,1-DCE | <0.188 | <0.188 |
| Benzene | <0.0941 | <0.0941 |
| cis-1,2-DCE | 1.25 | 1.32 |
| Ethylbenzene | <0.137 | <0.137 |
| Naphthalene | <1 | <1 |
| PCE | 5.57 + | 6.1 + |
| Toluene | <0.278 | <0.278 |
| TCE | 6.26 | 6.42 |
| Vinyl chloride | <0.234 | <0.234 |
| TPH-g | <30.4 | <30.4 |
| TPH-d (C12-C22) | 102 | <33 |
| TPH-d (C22-C32) | 166 | 136 |
| TPH-mo | <33 | <33 |

| P-02 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | 1.8 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | 347 |
| TPH-d (C22-C32) | 250 |
| TPH-mo | <33 |

| P-11 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | 183 |
| TPH-d (C22-C32) | 208 |
| TPH-mo | <33 |

| P-12 | |
|---|---|
| 5/24/2024 | |
| 1,1-DCA | <0.1 |
| 1,1-DCE | <0.188 |
| Benzene | <0.0941 |
| cis-1,2-DCE | <0.126 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | 176 |
| TPH-d (C22-C32) | 122 |
| TPH-mo | <33 |

| P-08 | |
|---|---|
| 5/28/2024 | |
| 1,1-DCA | 6.04 |
| 1,1-DCE | <0.188 |
| Benzene | 2.45 + |
| cis-1,2-DCE | 25.6 |
| Ethylbenzene | <0.137 |
| Naphthalene | <1 |
| PCE | <0.3 |
| Toluene | <0.278 |
| TCE | <0.19 |
| Vinyl chloride | <0.234 |
| TPH-g | <30.4 |
| TPH-d (C12-C22) | 2,030 |
| TPH-d (C22-C32) | 2,890 |
| TPH-mo | 1,200 |

LEGEND

- Grab Groundwater Sampling Location
- Existing Groundwater Monitoring Well
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- Identifiable Pit Location
- Former Buildings

| Screening Level | MCL Priority List | Commercial/Industrial ESLs |
|---|---|---|
| VOCs | µg/l | |
| 1,1-DCA | 5.0E+00 | 3.3E+01 |
| 1,1-DCE | 6.0E+00 | 2.8E+02 |
| Benzene | 1.0E+00 | 1.8E+00 |
| cis-1,2-DCE | 6.0E+00 | 2.1E+02 |
| Ethylbenzene | 3.0E+01 | 1.5E+01 |
| Naphthalene | 1.7E+01 | 2.8E+01 |
| PCE | 5.0E+00 | 2.8E+00 |
| Toluene | 4.0E+01 | 4.9E+03 |
| TCE | 5.0E+00 | 7.5E+00 |
| Vinyl chloride | 5.0E-01 | 1.4E-01 |
| TPH-g | 7.6E+02 | NS |
| TPH-d (C12-C22) | 2.0E+02 | NS |
| TPH-d (C22-C32) | 2.0E+02 | NS |
| TPH-mo | NS | NS |

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. San Francisco Regional Water Quality Control Board 2019. Environmental Screening Levels (ESLs): Direct Exposure Human Health Risk Levels (table GW-1) MCL Priority. January 2019 (revision 2).
3. San Francisco Regional Water Quality Control Board 2019. ESLs: Groundwater Vapor Intrusion Human Health Risk Levels (table GW-3) Commercial/Industrial. January 2019 (revision 2).
4. All concentrations reported in micrograms per liter (µg/L).
5. Yellow highlighted concentrations indicate an exceedance of the MCL Priority ESLs.
6. + = Concentration exceeds MCL Priority and GW Vapor Intrusion Commercial/Industrial ESLs.
7. All buildings have been demolished as of November 2023.
8. <X = Not detected at or above the method detection limit.
9. Ft bgs = Feet below ground surface.
10. gal = gallon.
11. NS = No standard established.
12. 1,1-DCA = 1,1-Dichloroethane
13. 1,1-DCE = 1,1-Dichloroethene
14. 1,1-TCA = 1,1-Trichloroethane.
15. PCE = Tetrachloroethene.
16. TCE = Trichloroethene.
17. TPH-g = total petroleum hydrocarbon as gasoline
18. TPH-d = total petroleum hydrocarbon as diesel
19. TPH-mo = total petroleum hydrocarbon as motor oil
20. TPH = Total petroleum hydrocarbon.
21. UST = Underground storage tank.
22. VOC = Volatile organic compound.

N

75 0 75'

Title:

# VOC AND TPH EXCEEDANCES IN GRAB GROUNDWATER - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

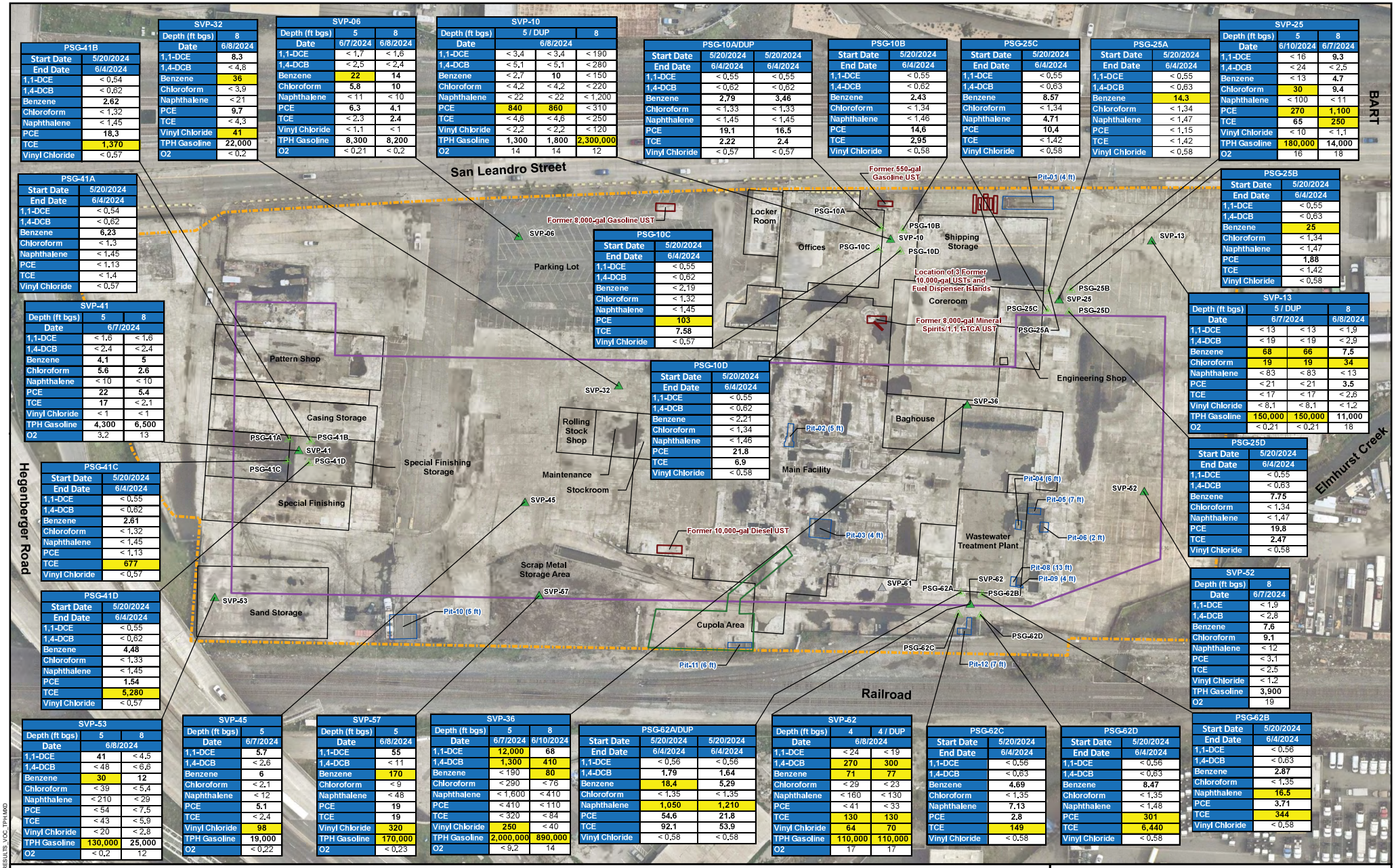
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: J.O. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F11(CL) | |

FIGURE 11

I:\SAN_LINE\P FILME\DECA GIS\1793 - PROJ\GIS\0030S000\MXD\F 11(CL)(C) GW_MONITORING_RESULTS_VOCS.MXD




| PSG-41B | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.54 |
| 1,4-DCB | < 0.62 |
| Benzene | 2.62 |
| Chloroform | < 1.32 |
| Naphthalene | < 1.45 |
| PCE | 18.3 |
| TCE | 1,370 |
| Vinyl Chloride | < 0.57 |

| SVP-32 | |
|---|---|
| Depth (ft bgs) | 8 |
| Date | 6/8/2024 |
| 1,1-DCE | 8.3 |
| 1,4-DCB | < 4.8 |
| Benzene | 36 |
| Chloroform | < 3.9 |
| Naphthalene | < 21 |
| PCE | 9.7 |
| TCE | < 4.3 |
| Vinyl Chloride | 41 |
| TPH Gasoline | 22,000 |
| O2 | < 0.2 |

| SVP-06 | | |
|---|---|---|
| Depth (ft bgs) | 5 | 8 |
| Date | 6/7/2024 | 6/8/2024 |
| 1,1-DCE | < 1.7 | < 1.6 |
| 1,4-DCB | < 2.5 | < 2.4 |
| Benzene | 22 | 14 |
| Chloroform | 5.8 | 10 |
| Naphthalene | < 11 | < 10 |
| PCE | 6.3 | 4.1 |
| TCE | < 2.3 | 2.4 |
| Vinyl Chloride | < 1.1 | < 1 |
| TPH Gasoline | 8,300 | 8,200 |
| O2 | < 0.21 | < 0.2 |

| SVP-10 | | | |
|---|---|---|---|
| Depth (ft bgs) | 5 / DUP | | 8 |
| Date | 6/8/2024 | | |
| 1,1-DCE | < 3.4 | < 3.4 | < 190 |
| 1,4-DCB | < 5.1 | < 5.1 | < 280 |
| Benzene | < 2.7 | 10 | < 150 |
| Chloroform | < 4.2 | < 4.2 | < 220 |
| Naphthalene | < 22 | < 22 | < 1,200 |
| PCE | 840 | 860 | < 310 |
| TCE | < 4.6 | < 4.6 | < 250 |
| Vinyl Chloride | < 2.2 | < 2.2 | < 120 |
| TPH Gasoline | 1,300 | 1,800 | 2,300,000 |
| O2 | 14 | 14 | 12 |

| PSG-10A/DUP | | |
|---|---|---|
| Start Date | 5/20/2024 | 5/20/2024 |
| End Date | 6/4/2024 | 6/4/2024 |
| 1,1-DCE | < 0.55 | < 0.55 |
| 1,4-DCB | < 0.62 | < 0.62 |
| Benzene | 2.79 | 3.46 |
| Chloroform | < 1.33 | < 1.33 |
| Naphthalene | < 1.45 | < 1.45 |
| PCE | 19.1 | 16.5 |
| TCE | 2.22 | 2.4 |
| Vinyl Chloride | < 0.57 | < 0.57 |

| PSG-10B | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.62 |
| Benzene | 2.43 |
| Chloroform | < 1.34 |
| Naphthalene | < 1.46 |
| PCE | 14.6 |
| TCE | 2.95 |
| Vinyl Chloride | < 0.58 |

| PSG-25C | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.63 |
| Benzene | 8.57 |
| Chloroform | < 1.34 |
| Naphthalene | 4.71 |
| PCE | 10.4 |
| TCE | < 1.42 |
| Vinyl Chloride | < 0.58 |

| PSG-25A | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.63 |
| Benzene | 14.3 |
| Chloroform | < 1.34 |
| Naphthalene | < 1.47 |
| PCE | < 1.15 |
| TCE | < 1.42 |
| Vinyl Chloride | < 0.58 |

| SVP-25 | | |
|---|---|---|
| Depth (ft bgs) | 5 | 8 |
| Date | 6/10/2024 | 6/7/2024 |
| 1,1-DCE | < 16 | 9.3 |
| 1,4-DCB | < 24 | < 2.5 |
| Benzene | < 13 | 4.7 |
| Chloroform | 30 | 9.4 |
| Naphthalene | < 100 | < 11 |
| PCE | 270 | 1,100 |
| TCE | 65 | 250 |
| Vinyl Chloride | < 10 | < 1.1 |
| TPH Gasoline | 180,000 | 14,000 |
| O2 | 16 | 18 |

| PSG-41A | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.54 |
| 1,4-DCB | < 0.62 |
| Benzene | 6.23 |
| Chloroform | < 1.3 |
| Naphthalene | < 1.45 |
| PCE | < 1.13 |
| TCE | < 1.4 |
| Vinyl Chloride | < 0.57 |

| PSG-10C | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.62 |
| Benzene | < 2.19 |
| Chloroform | < 1.32 |
| Naphthalene | < 1.45 |
| PCE | 103 |
| TCE | 7.58 |
| Vinyl Chloride | < 0.57 |

| PSG-25B | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.63 |
| Benzene | 25 |
| Chloroform | < 1.34 |
| Naphthalene | < 1.47 |
| PCE | 1.88 |
| TCE | < 1.42 |
| Vinyl Chloride | < 0.58 |

| SVP-41 | | |
|---|---|---|
| Depth (ft bgs) | 5 | 8 |
| Date | 6/7/2024 | |
| 1,1-DCE | < 1.6 | < 1.6 |
| 1,4-DCB | < 2.4 | < 2.4 |
| Benzene | 4.1 | 5 |
| Chloroform | 5.6 | 2.6 |
| Naphthalene | < 10 | < 10 |
| PCE | 22 | 5.4 |
| TCE | 17 | < 2.1 |
| Vinyl Chloride | < 1 | < 1 |
| TPH Gasoline | 4,300 | 6,500 |
| O2 | 3.2 | 13 |

| PSG-10D | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.62 |
| Benzene | < 2.21 |
| Chloroform | < 1.34 |
| Naphthalene | < 1.46 |
| PCE | 21.8 |
| TCE | 6.9 |
| Vinyl Chloride | < 0.58 |

| SVP-13 | | |
|---|---|---|
| Depth (ft bgs) | 5 / DUP | 8 |
| Date | 6/7/2024 | 6/8/2024 |
| 1,1-DCE | < 13 | < 13 | < 1.9 |
| 1,4-DCB | < 19 | < 19 | < 2.9 |
| Benzene | 68 | 66 | 7.5 |
| Chloroform | 19 | 19 | 34 |
| Naphthalene | < 83 | < 83 | < 13 |
| PCE | < 21 | < 21 | 3.5 |
| TCE | < 17 | < 17 | < 2.6 |
| Vinyl Chloride | < 8.1 | < 8.1 | < 1.2 |
| TPH Gasoline | 150,000 | 150,000 | 11,000 |
| O2 | < 0.21 | < 0.21 | 18 |

| PSG-41C | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.62 |
| Benzene | 2.61 |
| Chloroform | < 1.32 |
| Naphthalene | < 1.45 |
| PCE | < 1.13 |
| TCE | 677 |
| Vinyl Chloride | < 0.57 |

| PSG-25D | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.63 |
| Benzene | 7.75 |
| Chloroform | < 1.34 |
| Naphthalene | < 1.47 |
| PCE | 19.8 |
| TCE | 2.47 |
| Vinyl Chloride | < 0.58 |

| PSG-41D | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.55 |
| 1,4-DCB | < 0.62 |
| Benzene | 4.48 |
| Chloroform | < 1.33 |
| Naphthalene | < 1.45 |
| PCE | 1.54 |
| TCE | 5,280 |
| Vinyl Chloride | < 0.57 |

| SVP-52 | |
|---|---|
| Depth (ft bgs) | 8 |
| Date | 6/7/2024 |
| 1,1-DCE | < 1.9 |
| 1,4-DCB | < 2.8 |
| Benzene | 7.6 |
| Chloroform | 9.1 |
| Naphthalene | < 12 |
| PCE | < 3.1 |
| TCE | < 2.5 |
| Vinyl Chloride | < 1.2 |
| TPH Gasoline | 3,900 |
| O2 | 19 |

| SVP-53 | | |
|---|---|---|
| Depth (ft bgs) | 5 | 8 |
| Date | 6/8/2024 | |
| 1,1-DCE | 41 | < 4.5 |
| 1,4-DCB | < 48 | < 6.6 |
| Benzene | 30 | 12 |
| Chloroform | < 39 | < 5.4 |
| Naphthalene | < 210 | < 29 |
| PCE | < 54 | < 7.5 |
| TCE | < 43 | < 5.9 |
| Vinyl Chloride | < 20 | < 2.8 |
| TPH Gasoline | 130,000 | 25,000 |
| O2 | < 0.2 | 12 |

| SVP-45 | |
|---|---|
| Depth (ft bgs) | 5 |
| Date | 6/7/2024 |
| 1,1-DCE | 5.7 |
| 1,4-DCB | < 2.6 |
| Benzene | 6 |
| Chloroform | < 2.1 |
| Naphthalene | < 12 |
| PCE | 5.1 |
| TCE | < 2.4 |
| Vinyl Chloride | 98 |
| TPH Gasoline | 19,000 |
| O2 | < 0.22 |

| SVP-57 | |
|---|---|
| Depth (ft bgs) | 5 |
| Date | 6/8/2024 |
| 1,1-DCE | 55 |
| 1,4-DCB | < 11 |
| Benzene | 170 |
| Chloroform | < 9 |
| Naphthalene | < 48 |
| PCE | 19 |
| TCE | 19 |
| Vinyl Chloride | 320 |
| TPH Gasoline | 170,000 |
| O2 | < 0.23 |

| SVP-36 | | |
|---|---|---|
| Depth (ft bgs) | 5 | 8 |
| Date | 6/7/2024 | 6/10/2024 |
| 1,1-DCE | 12,000 | 68 |
| 1,4-DCB | 1,300 | 410 |
| Benzene | < 190 | 80 |
| Chloroform | < 290 | < 76 |
| Naphthalene | < 1,600 | < 410 |
| PCE | < 410 | < 110 |
| TCE | < 320 | < 84 |
| Vinyl Chloride | 250 | < 40 |
| TPH Gasoline | 2,000,000 | 890,000 |
| O2 | < 9.2 | 14 |

| PSG-62A/DUP | | |
|---|---|---|
| Start Date | 5/20/2024 | 5/20/2024 |
| End Date | 6/4/2024 | 6/4/2024 |
| 1,1-DCE | < 0.56 | < 0.56 |
| 1,4-DCB | 1.79 | 1.64 |
| Benzene | 18.4 | 5.29 |
| Chloroform | < 1.35 | < 1.35 |
| Naphthalene | 1,050 | 1,210 |
| PCE | 54.6 | 21.8 |
| TCE | 92.1 | 53.9 |
| Vinyl Chloride | < 0.58 | < 0.58 |

| SVP-62 | | |
|---|---|---|
| Depth (ft bgs) | 4 | 4 / DUP |
| Date | 6/8/2024 | |
| 1,1-DCE | < 24 | < 19 |
| 1,4-DCB | 270 | 300 |
| Benzene | 71 | 77 |
| Chloroform | < 29 | < 23 |
| Naphthalene | < 160 | < 130 |
| PCE | < 41 | < 33 |
| TCE | 130 | 130 |
| Vinyl Chloride | 64 | 70 |
| TPH Gasoline | 110,000 | 110,000 |
| O2 | 17 | 17 |

| PSG-62C | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.56 |
| 1,4-DCB | < 0.63 |
| Benzene | 4.69 |
| Chloroform | < 1.35 |
| Naphthalene | 7.13 |
| PCE | 2.8 |
| TCE | 149 |
| Vinyl Chloride | < 0.58 |

| PSG-62D | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.56 |
| 1,4-DCB | < 0.63 |
| Benzene | 8.47 |
| Chloroform | < 1.35 |
| Naphthalene | < 1.48 |
| PCE | 301 |
| TCE | 6,440 |
| Vinyl Chloride | < 0.58 |

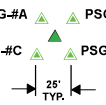
| PSG-62B | |
|---|---|
| Start Date | 5/20/2024 |
| End Date | 6/4/2024 |
| 1,1-DCE | < 0.56 |
| 1,4-DCB | < 0.63 |
| Benzene | 2.87 |
| Chloroform | < 1.35 |
| Naphthalene | 16.5 |
| PCE | 3.71 |
| TCE | 344 |
| Vinyl Chloride | < 0.58 |

LEGEND

- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- Identifiable Pit Location
- Former Buildings
- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Gas Step Out Sample Location

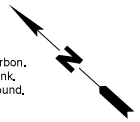
| Commercial/Industrial ESLs | |
|---|---|
| Units | µg/m³ |
| 1,1-DCE | 2.6E+02 |
| 1,4-DCB | 3.7E+01 |
| Benzene | 1.4E+01 |
| Chloroform | 1.8E+01 |
| Naphthalene | 1.2E+01 |
| PCE | 6.7E+01 |
| TCE | 1.0E+02 |
| Vinyl Chloride | 5.2E+00 |
| TPH Gasoline | 8.3E+04 |

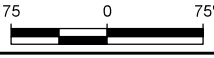
Typical Step-Out Sampling Layout:




NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. All concentrations reported in micrograms per cubic meter (µg/m³).
4. < X = Not detected at or above the method detection limit.
5. San Francisco Bay Regional Water Quality Control Board (RWQCB) 2019. Environmental Screening Levels (ESLs): Subslab/ Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1). January 2019 (Revision 2).
6. Yellow highlighted concentration exceeds the Commercial/Industrial ESL for vapor intrusion risk.
7. 1,1-DCE = 1,1-Dichloroethene.
8. 1,4-DCB = 1,4-Dichlorobenzene.
9. DUP = Duplicate sample.
10. Ft bgs = Feet below ground surface.
11. gal = gallon.
12. PCE: Tetrachloroethene.
13. 1,1-TCA = 1,1-Trichloroethane.
14. TCE: Trichloroethene.
15. TPH = total petroleum hydrocarbon.
16. UST = Underground storage tank.
17. VOC = volatile orgnanic compound.




Title:

# VOC AND TPH EXCEEDANCES IN ACTIVE AND PASSIVE SOIL VAPOR - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F12(CL) | |

FIGURE 12

I:\SAN_FRANCISCO\PROJECTS\1793 - PROJ\GIS\0030S000\MXD\F12(CL)PSG_RESULTS_VOC_TPH.MXD




| Screening Level | 2019 VI HHRL Commerical/Industrial ESLs |
|---|---|
| VOC | µg/m³ |
| Tetrachloroethene (PCE) | 6.7E+01 |

LEGEND

- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Vapor Step Out Sample Location
- Former Buildings
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint

PCE Concentration (µg/m3)

- 67
- 19.8 Passive Soil Vapor PCE Result

Typical Step-Out Sampling Layout:

PSG-#A PSG-#B
PSG-#C PSG-#D
25' TYP.

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. PCE = Tetrachloroethene.
3. Concentrations shown in µg/m3 (micrograms per cubic meter).
4. < = Not detected above laboratory detection limit.
5. The higher value (primary or duplicate) is displayed on the figure.
6. All buildings have been demolished as of November 2023.
7. Passive soil vapor data presented with heat maps.
8. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion (VI): Human Health Risk Levels (HHRL) (Table SG-1). January 2019.

N

75 0 75'

Title:

# HEAT MAP OF PCE IN PASSIVE SOIL VAPOR - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

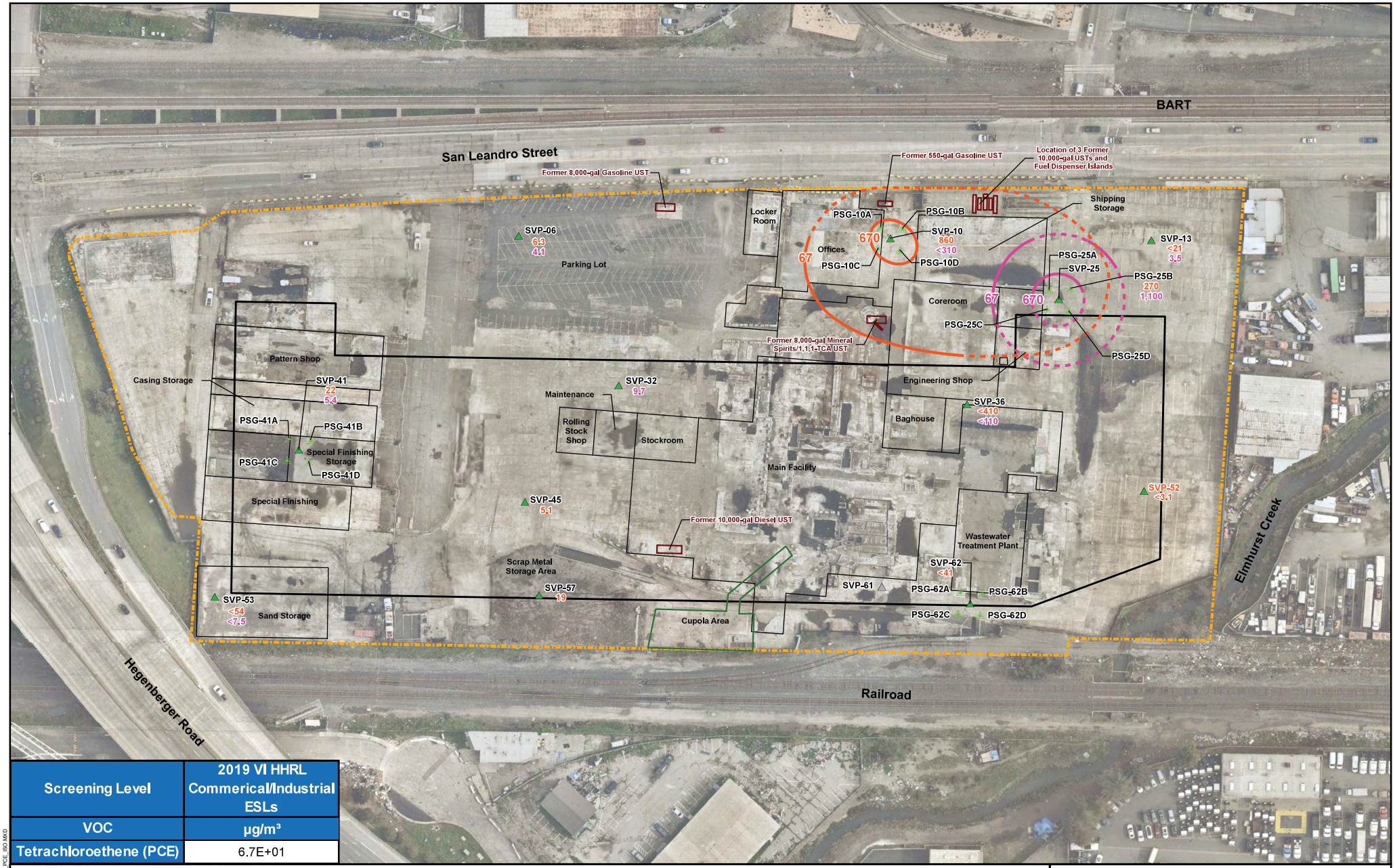
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F13a(CL) | |

FIGURE 13a

I:\SVL\TNJP1\LIMITED\CA.GIS\1739 - PROJ\GIS\0030S000\MXD\F13a(CL)PSG_PCE_HEATMAP.MXD

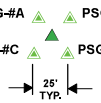



| Screening Level | 2019 VI HHRL Commerical/Industrial ESLs |
|---|---|
| VOC | µg/m³ |
| Tetrachloroethene (PCE) | 6.7E+01 |

LEGEND

- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Vapor Step Out Sample Location
- Shallow Active Soil Vapor PCE Isocontour
- Inferred Shallow Active Soil Vapor PCE Isocontour
- Deep Active Soil Vapor PCE Isocontour
- Inferred Deep Active Soil Vapor PCE Isocontour
- Former Buildings
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- 270 Shallow PCE Sample Result
- 110 Deep PCE Sample Result

Typical Step-Out Sampling Layout:




NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. PCE = Tetrachloroethene.
3. Concentrations shown in µg/m3 (micrograms per cubic meter).
4. < = Not detected above laboratory detection limit.
5. The higher value (primary or duplicate) is displayed on the figure.
6. All buildings have been demolished as of November 2023.
7. Shallow active soil vapor data presented with orange isocontours and text.
8. Deep active soil vapor data presented with pink isocontours and text.
9. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion (VI): Human Health Risk Levels (HHRL) (Table SG-1). January 2019.

75 0 75'

Title:

# ISOCONTOURS OF PCE IN ACTIVE SOIL VAPOR - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F13b(CL) | |

FIGURE 13b

I:\SF\OAK\PROJECTFILE\MITIGATION\1793-PROJ\GIS\0030S000\MXD\F13B(CL)ASG_PCE_ISO.MXD




| Screening Level | 2019 VI HHRL Commerical/Industrial ESLs |
|---|---|
| VOC | µg/m³ |
| Trichloroethene (TCE) | 1.0E+02 |

LEGEND

- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Vapopr Step Out Sample Location
- Former Buildings
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint

TCE Concentration (µg/m3)

- 100
- 1,000
- 5,000
- 1,370 Passive Soil Vapor TCE Result

Typical Step-Out Sampling Layout:

PSG-#A PSG-#B
PSG-#C PSG-#D
25' TYP.

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. TCE = Trichloroethene.
3. Concentrations shown in µg/m3 (micrograms per cubic meter).
4. < = Not detected above laboratory detection limit.
5. The higher value (primary or duplicate) is displayed on the figure.
6. All buildings have been demolished as of November 2023.
7. Passive soil vapor data presented with heat maps.
8. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion (VI): Human Health Risk Levels (HHRL) (Table SG-1). January 2019.

N

75 0 75'

Title:

# HEAT MAP OF TCE IN PASSIVE SOIL VAPOR - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

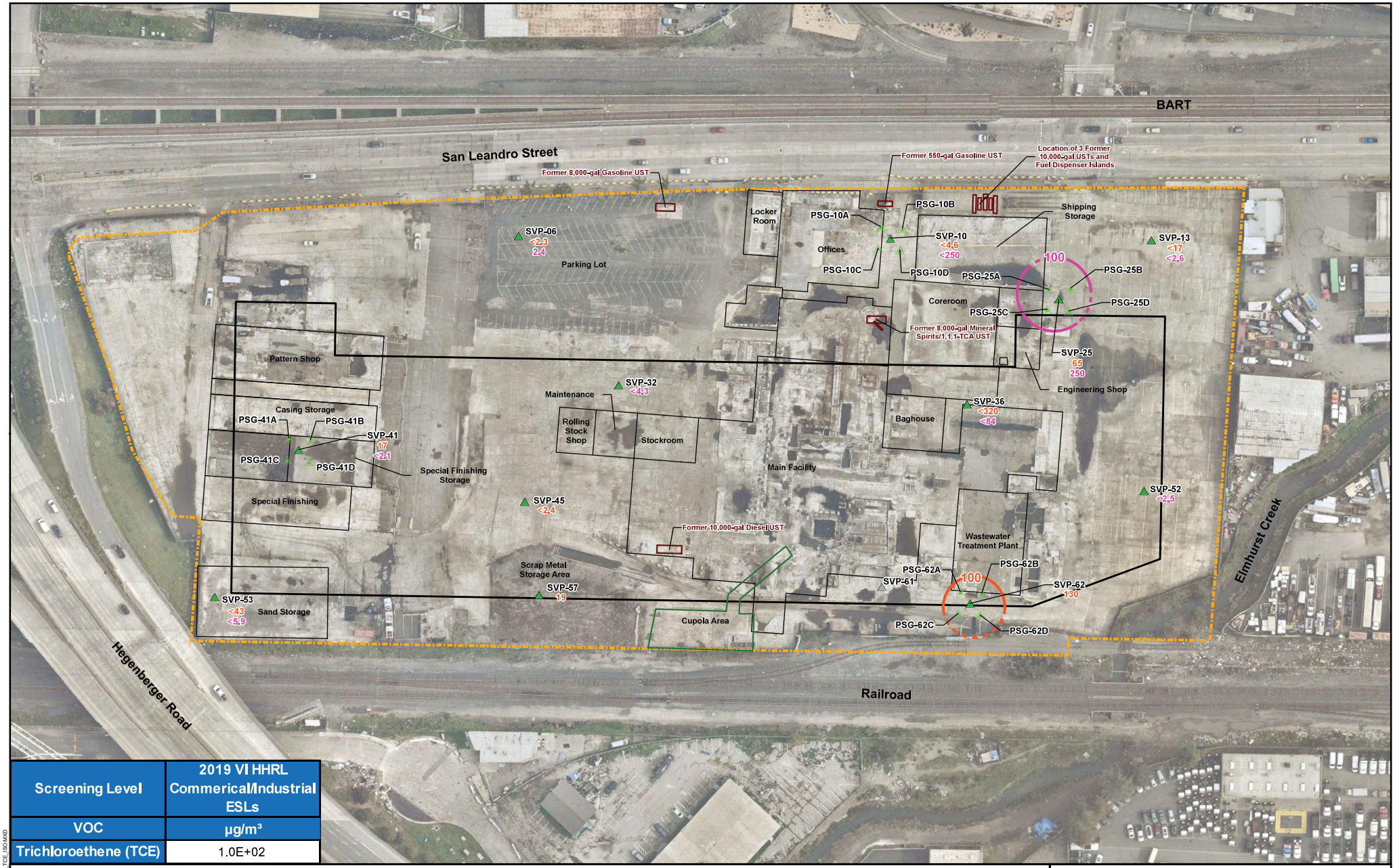
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/02/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F14a(CL) | |

FIGURE 14a

I:\SVL\TNJP1\LIMITED\CA GIS\1793 - PROJ\GIS\0030S000\MXD\F14A(CL)PSG_TCE_HEATMAP.MXD

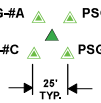



| Screening Level | 2019 VI HHRL Commerical/Industrial ESLs |
|---|---|
| VOC | µg/m³ |
| Trichloroethene (TCE) | 1.0E+02 |

LEGEND

- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Gas Step Out Sample Location
- Shallow Active Soil Vapor TCE Isocontour
- Inferred Shallow Active Soil Vapor TCE Isocontour
- Deep Active Soil Vapor TCE Isocontour
- Inferred Deep Active Vapor Gas TCE Isocontour
- Former Buildings
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- 17 Shallow TCE Sample Result
- <5.9 Deep TCE Sample Result

Typical Step-Out Sampling Layout:




NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. TCE = Trichloroethene.
3. Concentrations shown in µg/m3 (micrograms per cubic meter).
4. < = Not detected above laboratory detection limit.
5. The higher value (primary or duplicate) is displayed on the figure.
6. All buildings have been demolished as of November 2023.
7. Shallow active soil vapor data presented with orange isocontours and text.
8. Deep active soil vapor data presented with pink isocontours and text.
9. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion (VI): Human Health Risk Levels (HHRL) (Table SG-1). January 2019.

75 0 75'

Title:

# ISOCONTOURS OF TCE IN ACTIVE SOIL VAPOR - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F14b(CL) | |

FIGURE 14b

I:\SF\ALT\NFP1\LIMITED\CAD\GIS\1739 - PROJ\GIS\0030S000\0005F MB\CL\ASG_TCE_ISO.MXD




| Screening Level | 2019 VI HHRL Commerical/Industrial ESLs |
|---|---|
| VOC | µg/m³ |
| Benzene | 1.4E+01 |

LEGEND

- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Gas Step Out Sample Location
- Former Buildings
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint

**Benzene Concentration (µg /m3)**

- 14
- 2.61 Passive Soil Gas Benzene Result

Typical Step-Out Sampling Layout:

PSG-#A PSG-#B
PSG-#C PSG-#D
25' TYP.

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. Concentrations shown in µg/m3 (micrograms per cubic meter).
3. < = Not detected above laboratory detection limit.
4. The higher value (primary or duplicate) is displayed on the figure.
5. All buildings have been demolished as of November 2023.
6. Passive soil vapor data presented with heat maps.
7. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion (VI): Human Health Risk Levels (HHRL) (Table SG-1). January 2019.

N

75 0 75'

Title:

# HEAT MAP OF BENZENE IN PASSIVE SOIL VAPOR - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

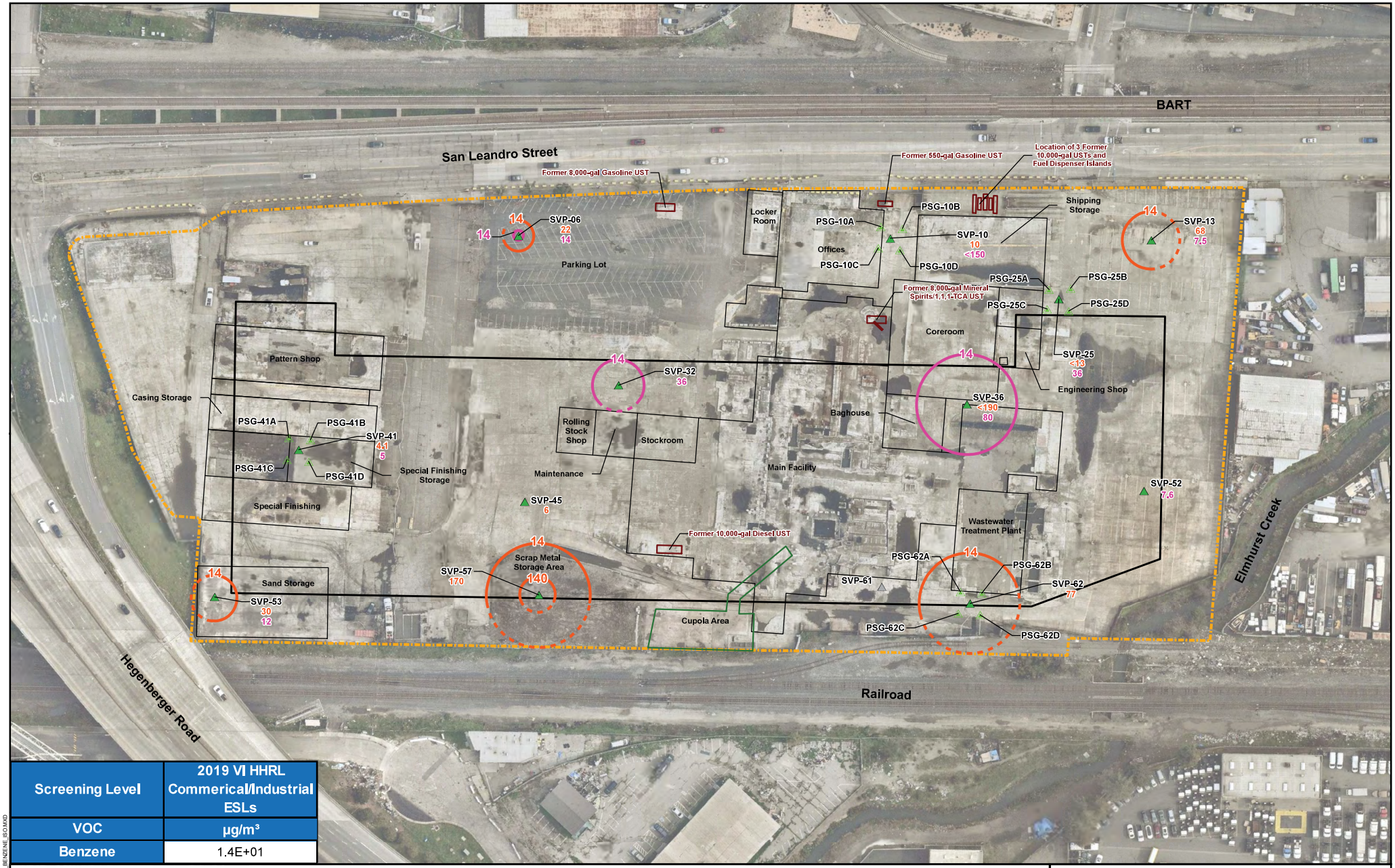
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F15a(CL) | |

FIGURE 15a

I:\SW\LTNJP1\LIMITED\CA GIS\1793-PROJ\GIS\0030S000\MXD\F15A(CL)PSG_BENZENE_HEATMAP.MXD

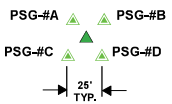



| Screening Level | 2019 VI HHRL Commerical/Industrial ESLs |
|---|---|
| VOC | µg/m³ |
| Benzene | 1.4E+01 |

LEGEND

- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Gas Step Out Sample Location
- Shallow Active Soil Vapor Benzene Isocontour
- Inferred Shallow Active Soil Vapor Benzene Isocontour
- Deep Active Soil Vapor Benzene Isocontour
- Inferred Deep Active Soil Vapor Benzene Isocontour
- Former Buildings
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- 30 Shallow Benzene Sample Result
- 12 Deep Benzene Sample Result

Typical Step-Out Sampling Layout:




NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. Concentrations shown in µg/m3 (micrograms per cubic meter).
3. < = Not detected above laboratory detection limit.
4. The higher value (primary or duplicate) is displayed on the figure.
5. All buildings have been demolished as of November 2023.
6. Shallow active soil vapor data presented with orange isocontours and text.
7. Deep active soil vapor data presented with pink isocontours and text.
8. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion (VI): Human Health Risk Levels (HHRL) (Table SG-1). January 2019.

N

75 0 75'

Title:

# ISOCONTOURS OF BENZENE IN ACTIVE SOIL VAPOR - 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

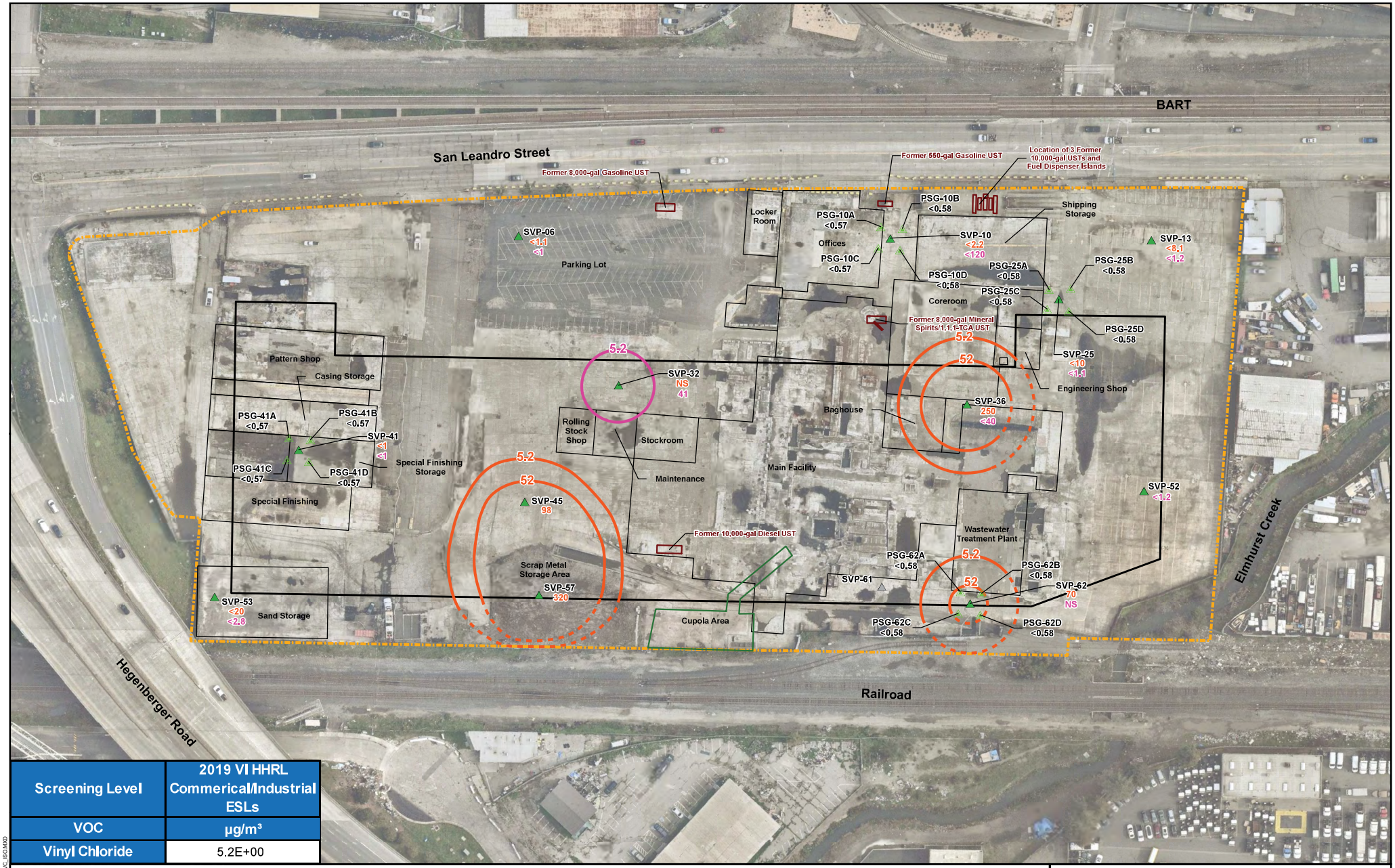
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F15b(CL) | |

FIGURE 15b

I:\SF\ALL\PJT\LIMITED\CA GIS\1793 - PROJ\GIS\0030S000\MXD\F15B(CL)ASG_BENZENE_ISO.MXD

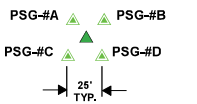



| Screening Level | 2019 VI HHRL Commerical/Industrial ESLs |
|---|---|
| VOC | µg/m³ |
| Vinyl Chloride | 5.2E+00 |

LEGEND

- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Gas Step Out Sample Location
- Shallow Active Soil Vapor Vinyl Chloride Isocontour
- Inferred Shallow Active Vapor Gas Vinyl Chloride Isocontour
- Deep Active Soil Vapor Vinyl Chloride Isocontour
- Former Buildings
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- 30 — Shallow Vinyl Chloride Sample Result
- 12 — Deep Vinyl Chloride Sample Result
- 2.61 — Passive Soil Gas Vinyl Chloride Result

Typical Step-Out Sampling Layout:




NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. Concentrations shown in µg/m3 (micrograms per cubic meter).
3. < = Not detected above laboratory detection limit.
4. The higher value (primary or duplicate) is displayed on the figure.
5. All buildings have been demolished as of November 2023.
6. Shallow active soil vapor data presented with orange isocontours and text.
7. Deep active soil vapor data presented with pink isocontours and text.
8. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion (VI): Human Health Risk Levels (HHRL) (Table SG-1). January 2019.
9. NS = Not sampled.

75 0 75'

Title:

# ISOCONTOUR MAP OF VINYL CHLORIDE IN ACTIVE SOIL VAPOR – 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

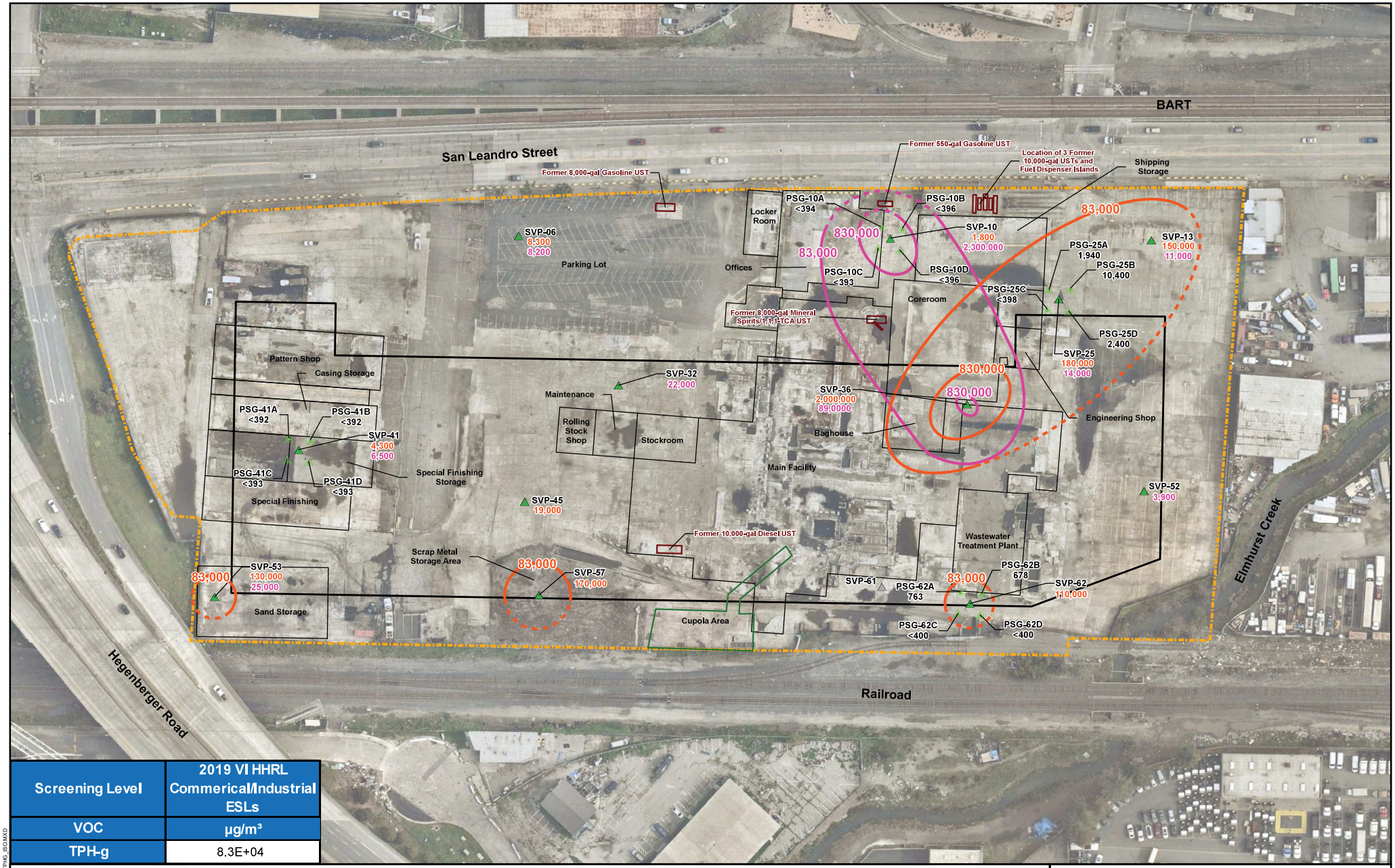
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F16(CL) | |

FIGURE 16

I:\SRV\LTNJP1\LIMITED\CA GIS\1793 - PROJ\GIS\0030S000\MXD\F16(CL)ASG_VIC_IEG.MXD

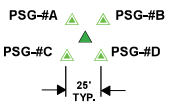



| Screening Level | 2019 VI HHRL Commerical/Industrial ESLs |
|---|---|
| VOC | µg/m³ |
| TPH-g | 8.3E+04 |

LEGEND

- Active Soil Vapor Probe Location
- Proposed Active Soil Vapor Probe Location Not Installed (Roux, 2024)
- Passive Soil Gas Step Out Sample Location
- Shallow Active Soil Vapor TPH-g Isocontour
- Inferred Shallow Active Soil Vapor TPH-g Isocontour
- Deep Active Soil Vapor TPH-g Isocontour
- Inferred Deep Active Soil Vapor TPH-g Isocontour
- Former Buildings
- Approximate Site Boundary
- Cupola Area
- Proposed Building Footprint
- 17,000 Shallow Vinyl Chloride Sample Result
- 25,000 Deep Vinyl Chloride Sample Result
- 763 Passive Soil Gas Vinyl Chloride Result

Typical Step-Out Sampling Layout:




NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. TPH-g = Total petroleum hydrocarbons - gasoline.
3. Concentrations shown in µg/m3 (micrograms per cubic meter).
4. < = Not detected above laboratory detection limit.
5. The higher value (primary or duplicate) is displayed on the figure.
6. All buildings have been demolished as of November 2023.
7. Shallow active soil vapor data presented with orange isocontours and text.
8. Deep active soil vapor data presented with pink isocontours and text.
9. San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019. Environmental Screening Levels (ESLs): Subslab/Soil Gas Vapor Intrusion (VI): Human Health Risk Levels (HHRL) (Table SG-1). January 2019.

N

75 0 75'

Title:

# ISOCONTOUR MAP OF TPH-G IN ACTIVE SOIL VAPOR – 2024 DATA GAP INVESTIGATION

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 10/01/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F17(CL) | |

FIGURE 17

I:\SRV\LTNJP1\LIMITED\CA GIS\1793 - PROJ\GIS\0030S000\MXD\F17(CL)ASG_TPHG_ISO.MXD

# APPENDICES

A. Cross Sections
B. Previous Soil Gas Heat Maps
C. Langan Cone Penetration Test Logs
D. Permits
E. Site Plan with Sample Stake Locations
F. Boring Logs
G. Passive Soil Vapor Sampler Construction Detail
H. Laboratory Analytical Reports and Chain-of-Custody Records
I. Groundwater Sampling Forms
J. Soil Vapor Sampling Logs
K. Passive Soil Gas Standard Operating Procedure
L. Waste Manifests

# APPENDIX A

Cross Sections




LEGEND

- Approximate Site Boundary
- Cupola Area
- Identifiable Pit Location
- Former Buildings
- Bio Swale Soil Boring (Roux, 2024)
- CPT Location (Langan, 2024)
- Cross Section Line
- CPT borings (Iwasa, 2022)
- Environmental Soil Boring Sample Location (Hayley & Aldrich, 2022)
- Geotech Soil Boring (IWASA, 2022)
- Soil Boring (The Source Group, Inc. [SGI], 2008)
- 150' Grid Soil Boring (Roux, 2024)
- Utility Corridor Soil Boring (Roux, 2024)
- Existing Groundwater Monitoring Well (Roux, 2023)
- Decommissioned Groundwater Monitoring Well (BSK, 1993, 2006)
- Soil and Grab Groundwater Sampling Location (Roux, 2024)
- Passive Soil Gas Step Out Sample Location (Roux, 2024)
- Active Soil Vapor Probe Location (Roux, 2024)
- Soil Gas Sampling Location (SGI, 2007; SGI, 2008; SGI, 2009)
- Historical Passive Soil Vapor Sample Locations (Roux, 2023)

NOTES

1. Aerial Source: Nearmap Imagery (2/23/2024).
2. All buildings have been demolished as of November 2023.
3. 1,1,1-TCA = 1,1,1-Trichloroethane.
4. CPT = Cone penetration test.
5. UST = Underground storage tank.

N

75 0 75'

Title:

# CROSS SECTION SITE PLAN

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

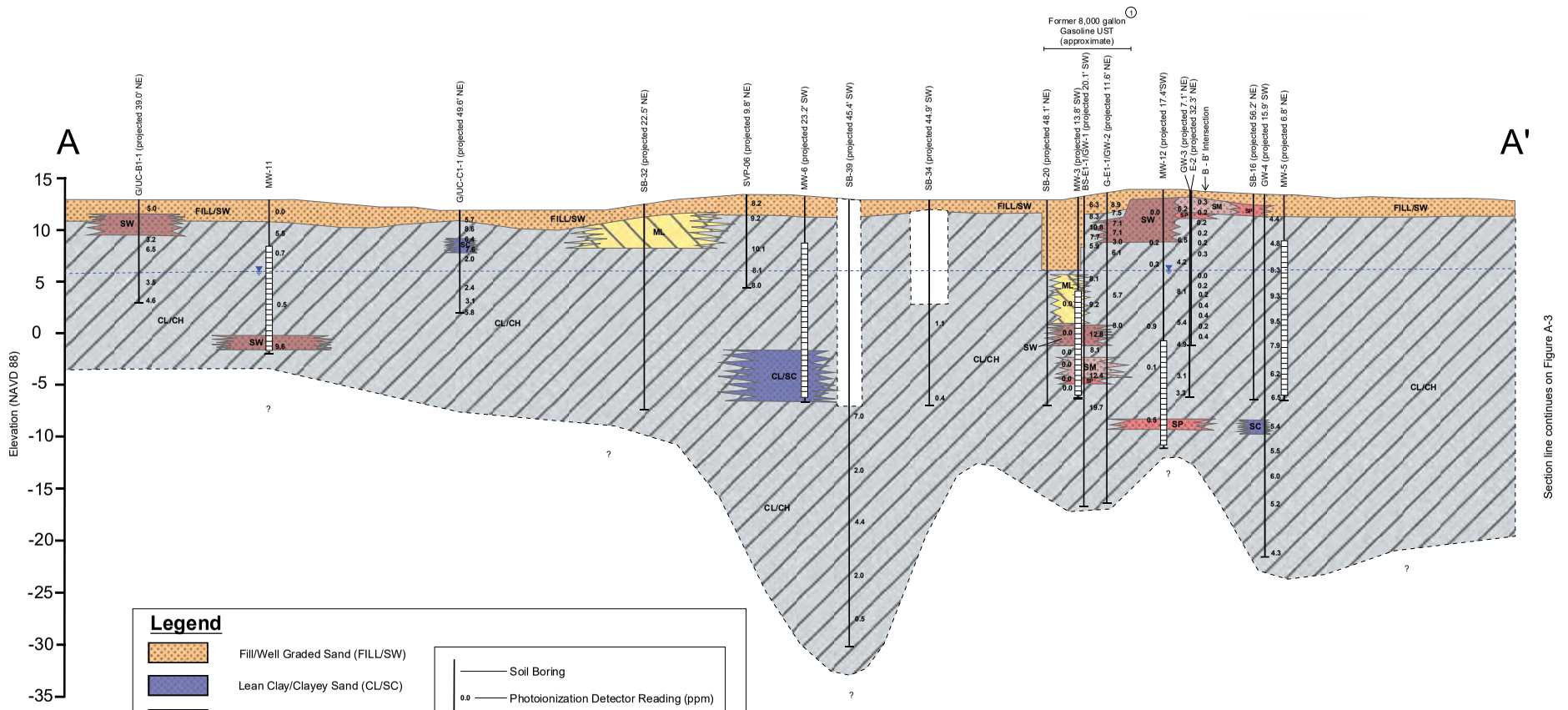
DUKE REALTY FOUNDRY LP

ROUX

| | |
|---|---|
| Compiled by: D.B. | Date: 09/09/24 |
| Prepared by: J.W.V. | Scale: AS SHOWN |
| Project Mgr: J.O. | Project: 1793.0030S000 |
| File: F2(CP) | |

FIGURE A-1

I:\SRVLTNLP\PLIMITED\CA GIS\1793 - PROLOGIS\0030\000\F2\CLIS\TEP\JW_HISTORICAL_RECENT_SAMPLES.MXD




## Legend

- Fill/Well Graded Sand (FILL/SW)
- Lean Clay/Clayey Sand (CL/SC)
- Lean/Fat Clay (CL/CH)
- Not Logged for Various Reasons
- Poorly Graded Sand (SP)
- Silt (ML)
- Silty Sand (SM)
- Well Graded Sand (SW)

- Soil Boring
- 0.0 Photoionization Detector Reading (ppm)
- Groundwater Level (April 2024)
- Well Screen Interval
- Potentiometric Surface
- Lithologic unit contact; dashed where infered

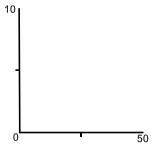
## Notes

(1) Former 8,000 gallon gasoline underground storage tank (UST) removal excavation estimated based on information provided in ASTM Phase I Environmental Site Assessment (Haley and Aldrich, 2022).

- Groundwater levels shown on cross section based on April 2024 gaging records conducted by Roux.

| Well ID | Groundwater Elevation (NAVD 88) |
|---|---|
| MW-11 | 5.93 |
| MW-12 | 5.87 |

- Subsurface records interpreted from the following boring log sources:
  - BSK, 1993.
  - Haley and Aldrich, 2022.
  - Roux, 2023-2024.
  - The Source Group, Inc., 2007.
- Section line A - A' trends N43°W.
- All vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).




Title:

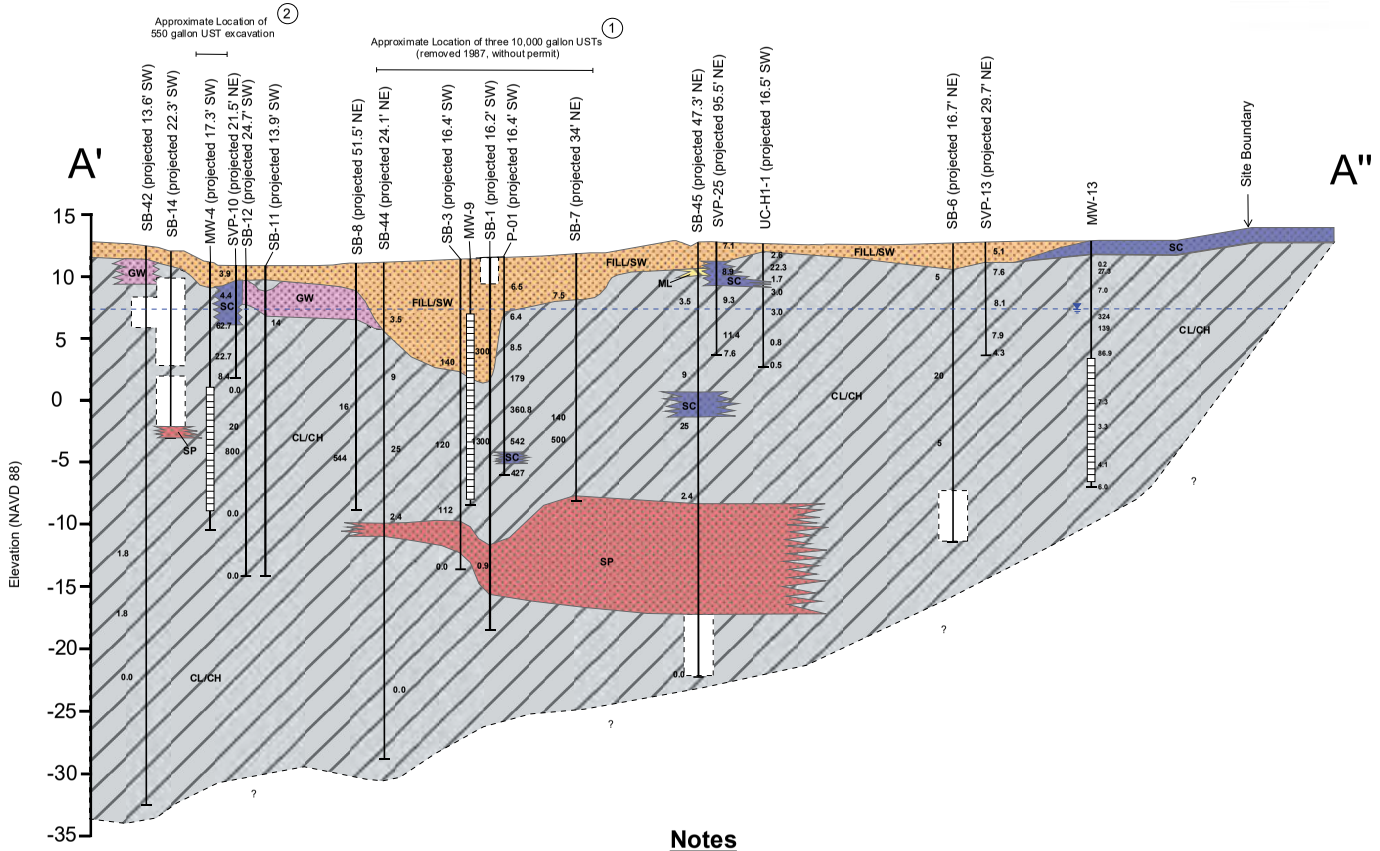
# CROSS SECTION A - A'

AB&I REDEVELOPMENT
7825 SAN LEANDRO STREET
OAKLAND, CA

Prepared for:
DUKE REALTY FOUNDRY LP

ROUX

| | | | |
|---|---|---|---|
| Compiled by: M.R. | Date: 9/6/24 | FIGURE |
| Prepared by: M.R. | Scale: AS SHOWN | A-2 |
| Project Mgr: J.O. | Project: 1793.0030S000 | |
| File: 1793.0030S000.C2.pdf | | |




## Legend

- Clayey Sand (SC)
- Fill/Well Graded Sand (FILL/SW)
- Lean/Fat Clay (CL/CH)
- Not Logged for Various Reasons
- Poorly Graded Sand (SP)
- Silt (ML)
- Sandy Gravel (GW)

- Soil Boring
- 0.0 Photoionization Detector Reading (ppm)
- Groundwater Level (April 2024)
- Well Screen Interval
- Potentiometric Surface
- Lithologic unit contact; dashed where infered

## Notes

1. Former three 10,000 gallon underground storage tank removal excavation estimated based on information provided in ASTM Phase I Environmental Site Assessment (Haley and Aldrich, 2022).
2. Former three 550 gallon underground storage tank removal excavation estimated based on information provided in ASTM Phase I Environmental Site Assessment (Haley and Aldrich, 2022).

- Groundwater levels shown on cross section based on April 2024 gaging records conducted by Roux.

| Well ID | Groundwater Elevation (NAVD 88) |
|---|---|
| MW-13 | 7.26 |

- Subsurface records interpreted from the following boring log sources:
  - BSK, 1993.
  - Haley and Aldrich, 2022.
  - Roux, 2023-2024.
  - The Source Group, Inc., 2007.
- Section line A' - A" trends N43°W.
- All vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

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Title:

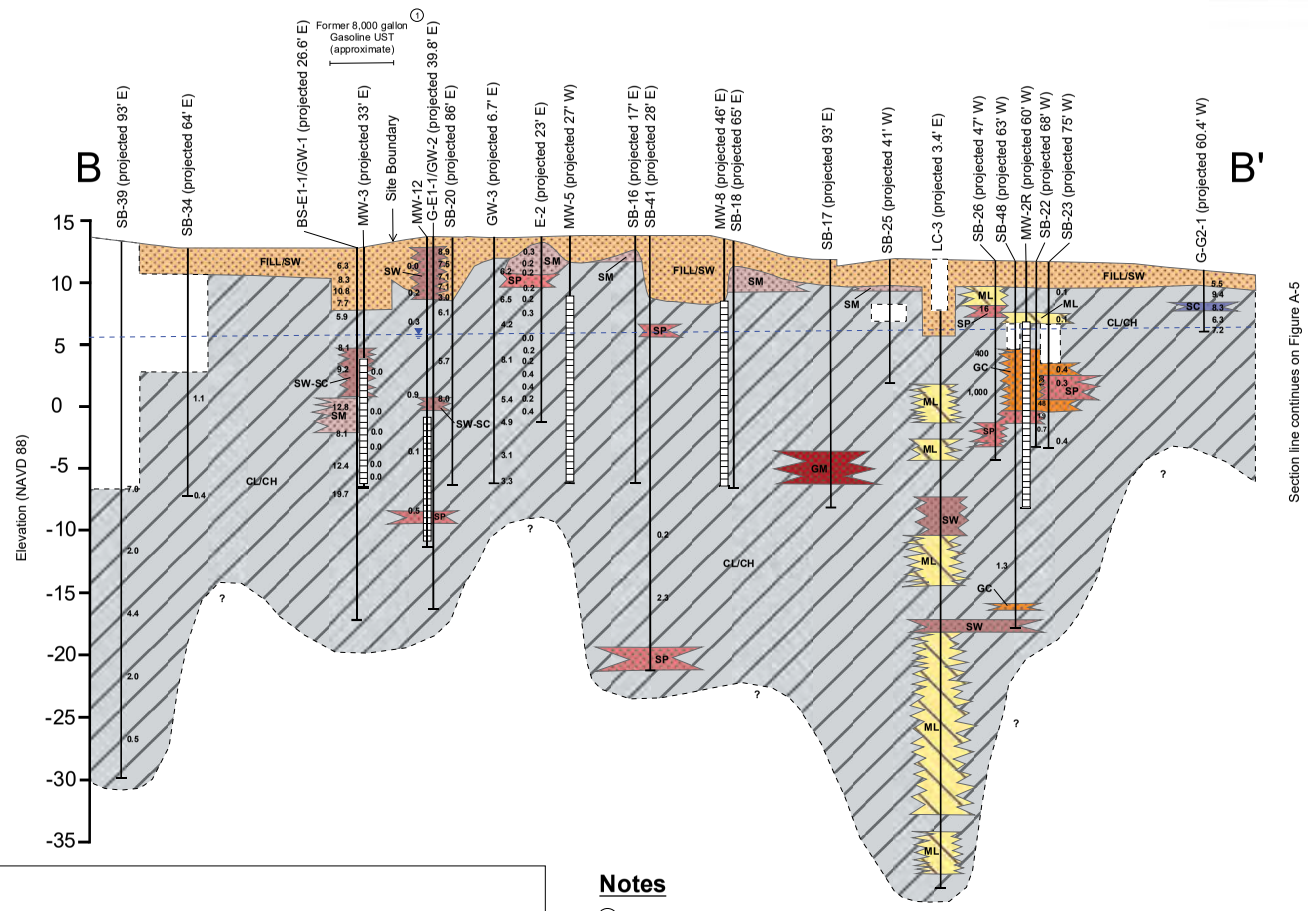
# CROSS SECTION A' - A"

AB&I REDEVELOPMENT
7825 SAN LEANDRO STREET
OAKLAND, CA

Prepared for:
DUKE REALTY FOUNDRY LP

ROUX

| | | | |
|---|---|---|---|
| Compiled by: M.R. | Date: 9/6/24 | FIGURE |
| Prepared by: M.R. | Scale: AS SHOWN | A-3 |
| Project Mgr: J.O. | Project: 2723.0019S000 | |
| File: 2723.0019S00.C3.pdf | | |




## Legend

- Lean/Fat Clay (CL/CH)
- Fill/Well Graded Sand (FILL/SW)
- Silt (ML)
- Well Graded Sand (SW)
- Clayey Sand (SC)
- Silty Sand (SM)
- Poorly Graded Sand (SP)
- Not Logged for Various Reasons
- Silty Gravel (GM)
- Clayey Gravel (GC)
- Potentiometric Surface
- Lithologic unit contact; dashed where infered
- Soil Boring
- 0.0 Photoionization Detector Reading (ppm)
- Groundwater Level (April 2024)
- Well Screen Interval

## Notes

(1) Former 8,000 gallon gasoline underground storage tank (UST) removal excavation estimated based on information provided in ASTM Phase I Environmental Site Assessment (Haley and Aldrich, 2022).

- Groundwater levels shown on cross section based on April 2024 gaging records conducted by Roux.

| Well ID | Groundwater Elevation (NAVD 88) |
|---|---|
| MW-12 | 5.87 |

- Subsurface records interpreted from the following boring log sources:
  - BSK, 1993.
  - Haley and Aldrich, 2022.
  - Langan, 2024
  - Roux, 2023.
  - The Source Group, Inc., 2007.
- All vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

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Title:

# CROSS SECTION B - B'

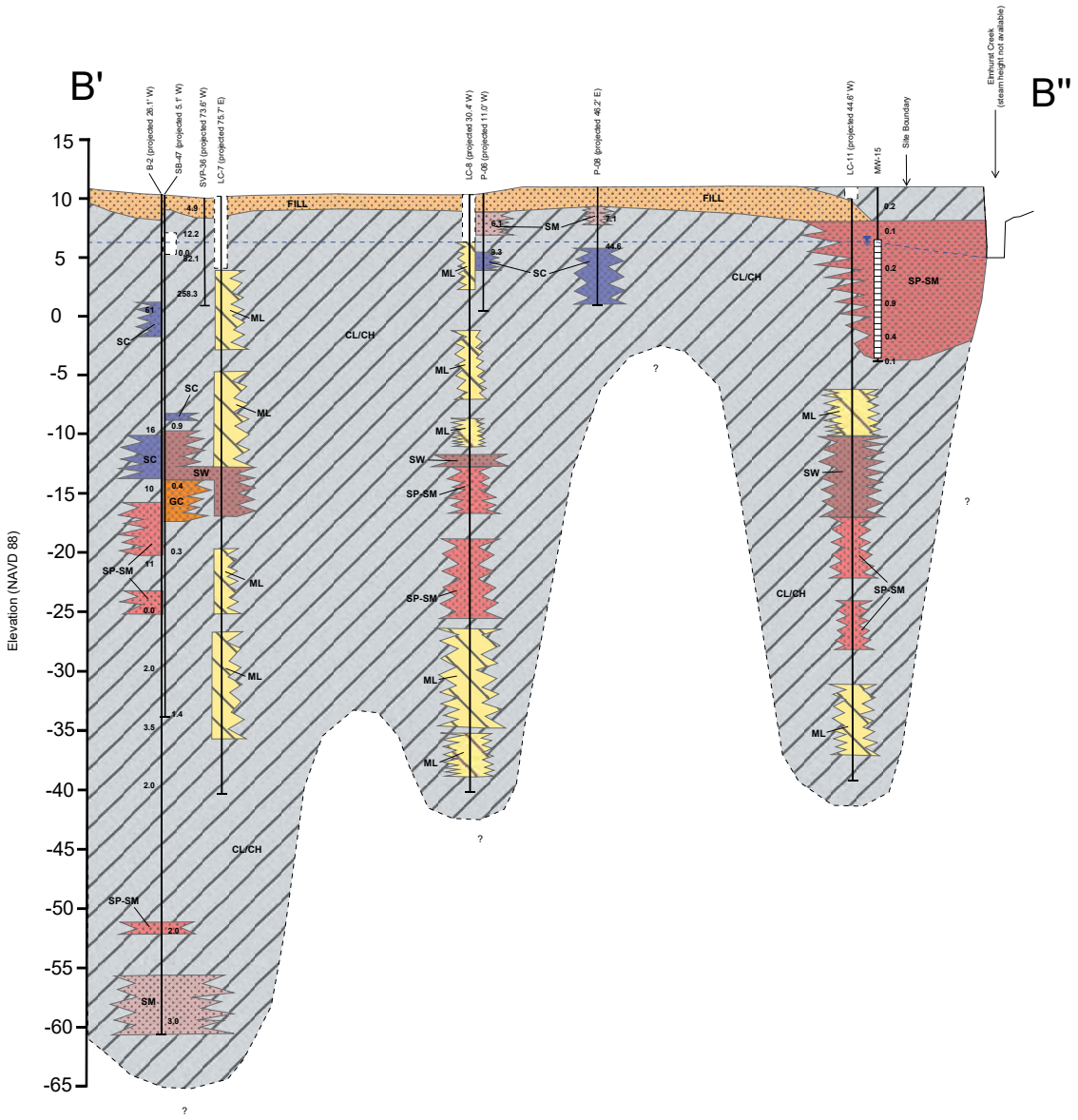
AB&I REDEVELOPMENT
7825 SAN LEANDRO STREET
OAKLAND, CA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | | | |
|---|---|---|---|
| Compiled by: M.R. | Date: 9/6/24 | FIGURE |
| Prepared by: M.R. | Scale: AS SHOWN | A-4 |
| Project Mgr: J.O. | Project: 1793.0030S000 | |
| File: 1793.0030S000.C4.pdf | | |




## Legend

- Lean/Fat Clay (CL/CH)
- Fill (FILL)
- Silt (ML)
- Clayey Gravel (GC)
- Well Graded Sand (SW)
- Clayey Sand (SC)
- Silty Sand (SM)
- Poorly Graded Sand to Silty Sand (SP-SM)
- Not Logged for Various Reasons

- Soil Boring
- 0.0 Photoionization Detector Reading (ppm)
- Groundwater Level (April 2024)
- Well Screen Interval

- Potentiometric Surface
- Lithologic unit contact; dashed where infered

## Notes

- Groundwater levels shown on cross section based on April 2024 gaging records conducted by Roux.

| Well ID | Groundwater Elevation (NAVD 88) |
|---|---|
| MW-15 | 6.14 |

- Subsurface records interpreted from the following boring log sources:
  - Iwasa, 2022.
  - Langan, 2024.
  - Roux, 2023-2024.
  - The Source Group, Inc., 2007.
- All vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

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0
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Title:

# CROSS SECTION B' - B"

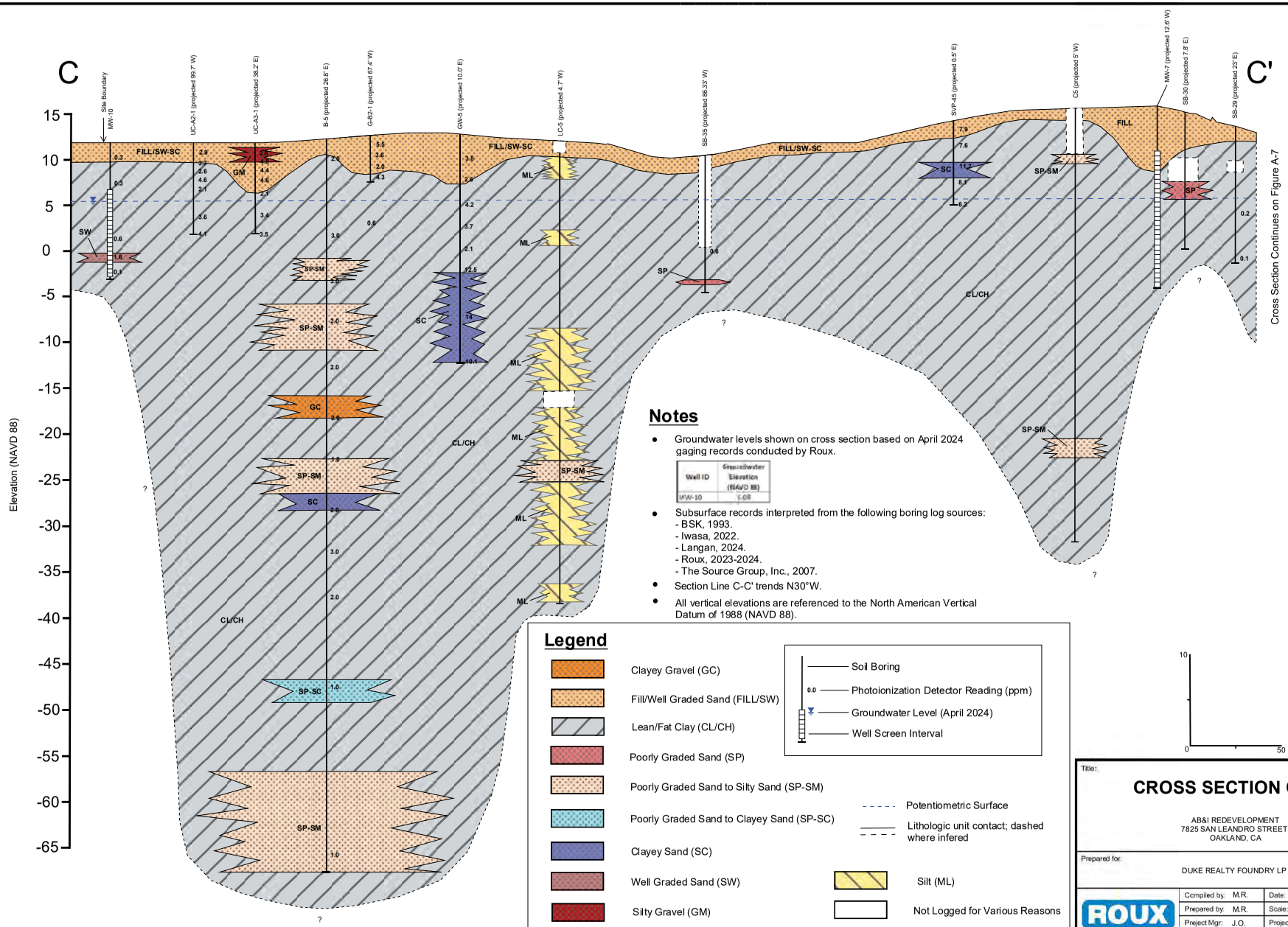
AB&I REDEVELOPMENT
7825 SAN LEANDRO STREET
OAKLAND, CA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | | | |
|---|---|---|---|
| Compiled by: M.R. | Date: 9/6/24 | FIGURE |
| Prepared by: M.R. | Scale: AS SHOWN | A-5 |
| Project Mgr: J.O. | Project: 1793.0030S000 | |
| File: 1793.0030S000.C5.pdf | | |




## Notes

- Groundwater levels shown on cross section based on April 2024 gaging records conducted by Roux.

| Well ID | Groundwater Elevation (NAVD 88) |
|---|---|
| MW-10 | 5.08 |

- Subsurface records interpreted from the following boring log sources:
  - BSK, 1993.
  - Iwasa, 2022.
  - Langan, 2024.
  - Roux, 2023-2024.
  - The Source Group, Inc., 2007.
- Section Line C-C' trends N30°W.
- All vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

## Legend

- Clayey Gravel (GC)
- Fill/Well Graded Sand (FILL/SW)
- Lean/Fat Clay (CL/CH)
- Poorly Graded Sand (SP)
- Poorly Graded Sand to Silty Sand (SP-SM)
- Poorly Graded Sand to Clayey Sand (SP-SC)
- Clayey Sand (SC)
- Well Graded Sand (SW)
- Silty Gravel (GM)
- Soil Boring
- 0.0 Photoionization Detector Reading (ppm)
- Groundwater Level (April 2024)
- Well Screen Interval
- Potentiometric Surface
- Lithologic unit contact; dashed where infered
- Silt (ML)
- Not Logged for Various Reasons

10
0
50

Title:

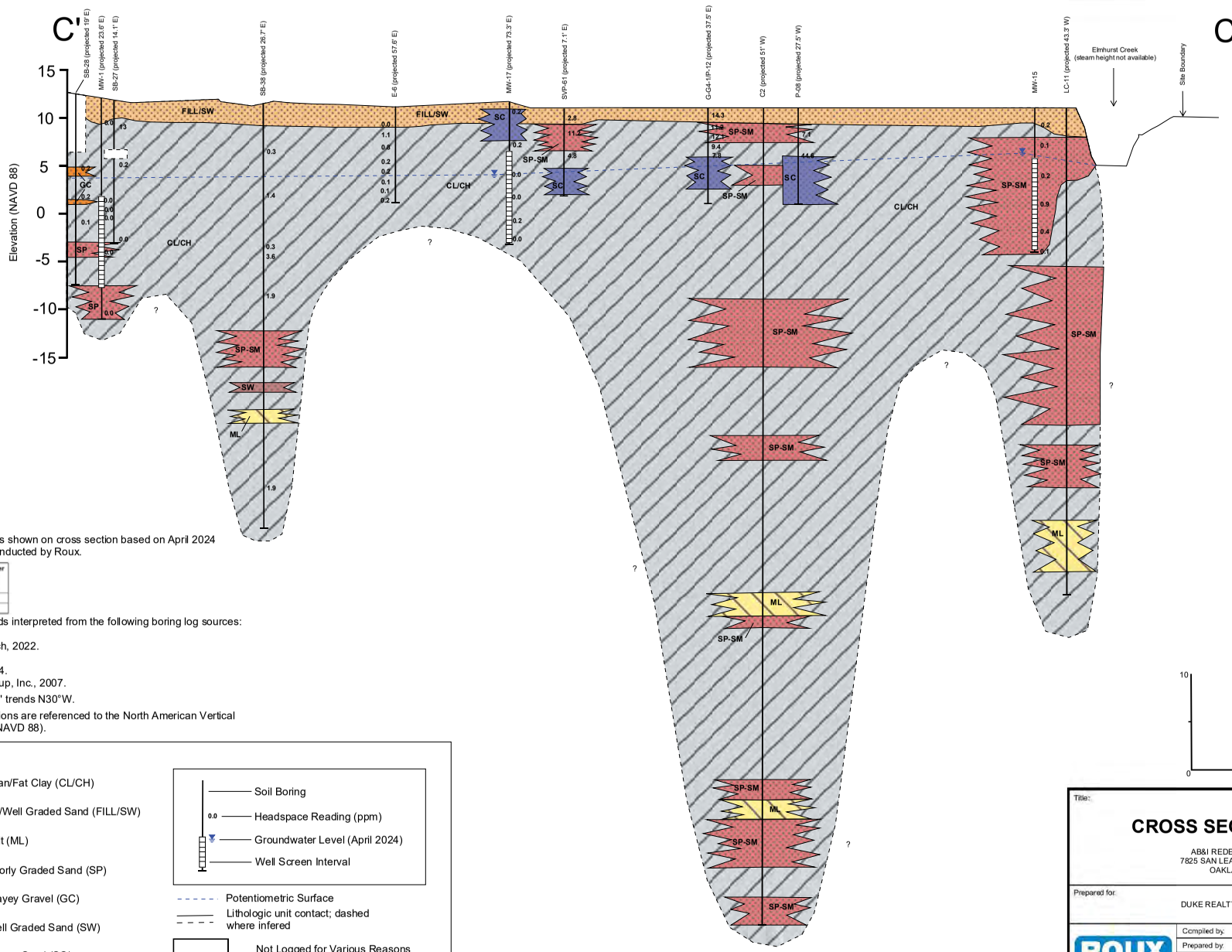
# CROSS SECTION C - C'

AB&I REDEVELOPMENT
7825 SAN LEANDRO STREET
OAKLAND, CA

Prepared for:
DUKE REALTY FOUNDRY LP

ROUX

| | | | |
|---|---|---|---|
| Compiled by: M.R. | Date: 9/6/24 | FIGURE |
| Prepared by: M.R. | Scale: AS SHOWN | A-6 |
| Project Mgr: J.O. | Project: 1793.0030S000 | |
| File: 1793.0030S000.C6.pdf | | |




## Notes

- Groundwater levels shown on cross section based on April 2024 gaging records conducted by Roux.

| Well ID | Groundwater Elevation (NAVD 88) |
|---|---|
| MW-15 | 1.18 |
| MW-17 | 1.78 |

- Subsurface records interpreted from the following boring log sources:
  - BSK, 1993.
  - Haley and Aldrich, 2022.
  - Langan, 2024.
  - Roux, 2023-2024.
  - The Source Group, Inc., 2007.
- Section Line C'-C" trends N30°W.
- All vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

## Legend

- Lean/Fat Clay (CL/CH)
- Fill/Well Graded Sand (FILL/SW)
- Silt (ML)
- Poorly Graded Sand (SP)
- Clayey Gravel (GC)
- Well Graded Sand (SW)
- Clayey Sand (SC)

- Soil Boring
- 0.0 Headspace Reading (ppm)
- Groundwater Level (April 2024)
- Well Screen Interval
- Potentiometric Surface
- Lithologic unit contact; dashed where infered
- Not Logged for Various Reasons

10
0
50

Title:

# CROSS SECTION C' - C"

AB&I REDEVELOPMENT
7825 SAN LEANDRO STREET
OAKLAND, CA

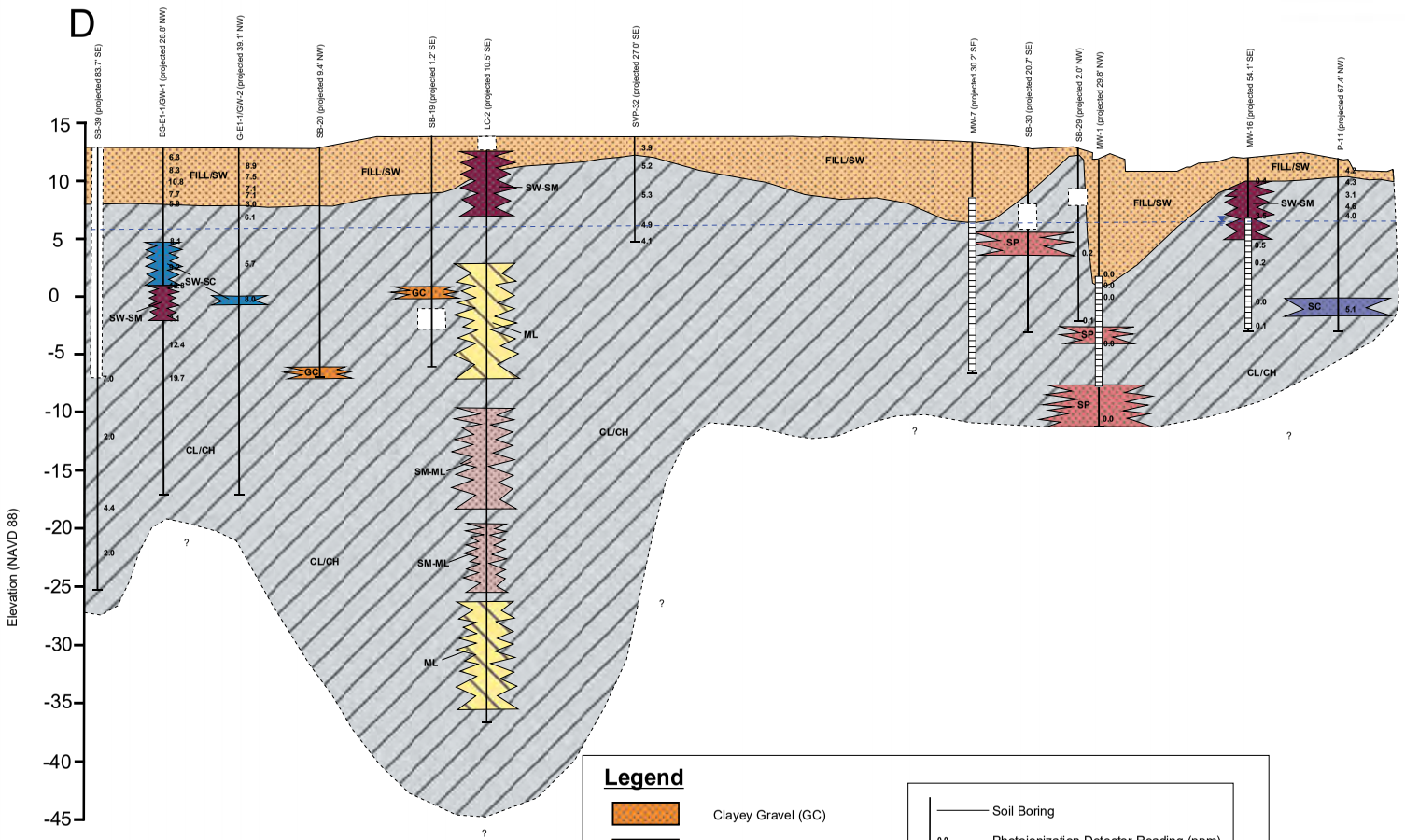
Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | | | |
|---|---|---|---|
| Compiled by: | M.R. | Date: | 9/6/24 |
| Prepared by: | M.R. | Scale: | AS SHOWN |
| Project Mgr: | J.O. | Project: | 1793.0030S000 |
| File: | 1793.0030S000.C7.pdf | | |

FIGURE
A-7




## Notes

- Groundwater levels shown on cross section based on April 2024 gaging records conducted by Roux.

| Well ID | Groundwater Elevation (NAVD 88) |
|---|---|
| MW-16 | 7.72 |

- Subsurface records interpreted from the following boring log sources:
  - BSK, 1993.
  - Langan, 2024.
  - Roux, 2023-2024.
  - The Source Group, Inc., 2007.
- All vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

## Legend

- Clayey Gravel (GC)
- Fill/Well Graded Sand (FILL/SW)
- Lean/Fat Clay (CL/CH)
- Poorly Graded Sand (SP)
- Well Graded Sand to Clayey Sand (SW-SC)
- Well Graded Sand to Silty Sand (SW-SM)
- Clayey Sand (SC)
- Silty Sand to Silt (SM-ML)
- Silt (ML)
- Not Logged for Various Reasons

- Soil Boring
- 0.0 Photoionization Detector Reading (ppm)
- Groundwater Level (April 2024)
- Well Screen Interval
- Potentiometric Surface
- Lithologic unit contact; dashed where infered

10
0
50

Title:

# CROSS SECTION D - D'

AB&I REDEVELOPMENT
7825 SAN LEANDRO STREET
OAKLAND, CA

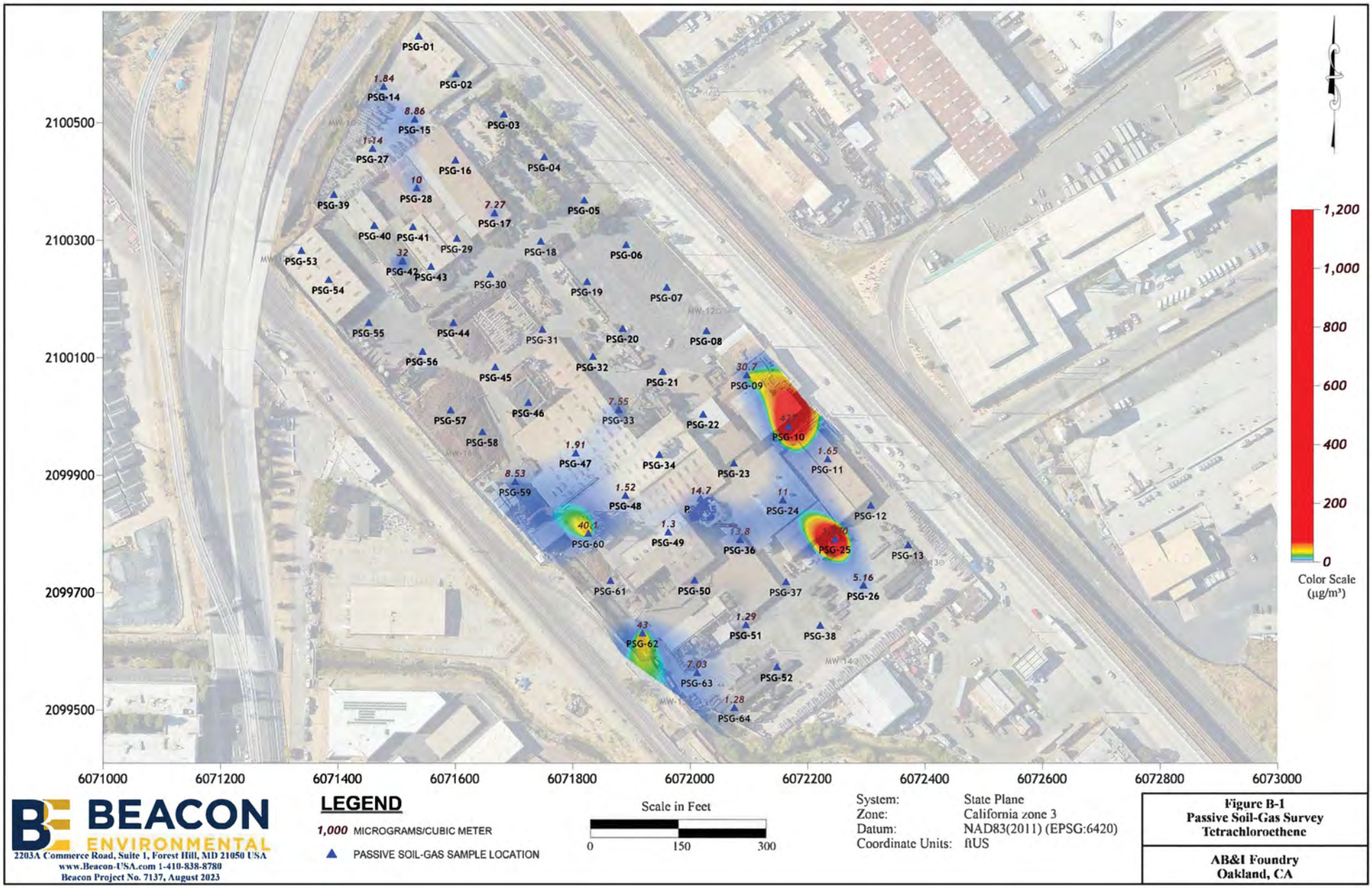
Prepared for:
DUKE REALTY FOUNDRY LP

ROUX

| | | | |
|---|---|---|---|
| Compiled by: M.R. | Date: 9/6/24 | FIGURE |
| Prepared by: M.R. | Scale: AS SHOWN | A-8 |
| Project Mgr: J.O. | Project: 1793.0030S000 | |
| File: 1793.0030S000.C8.pdf | | |

# APPENDIX B

Previous Soil Gas Heat Maps




**LEGEND**

**1,000** MICROGRAMS/CUBIC METER

▲ PASSIVE SOIL-GAS SAMPLE LOCATION

Scale in Feet

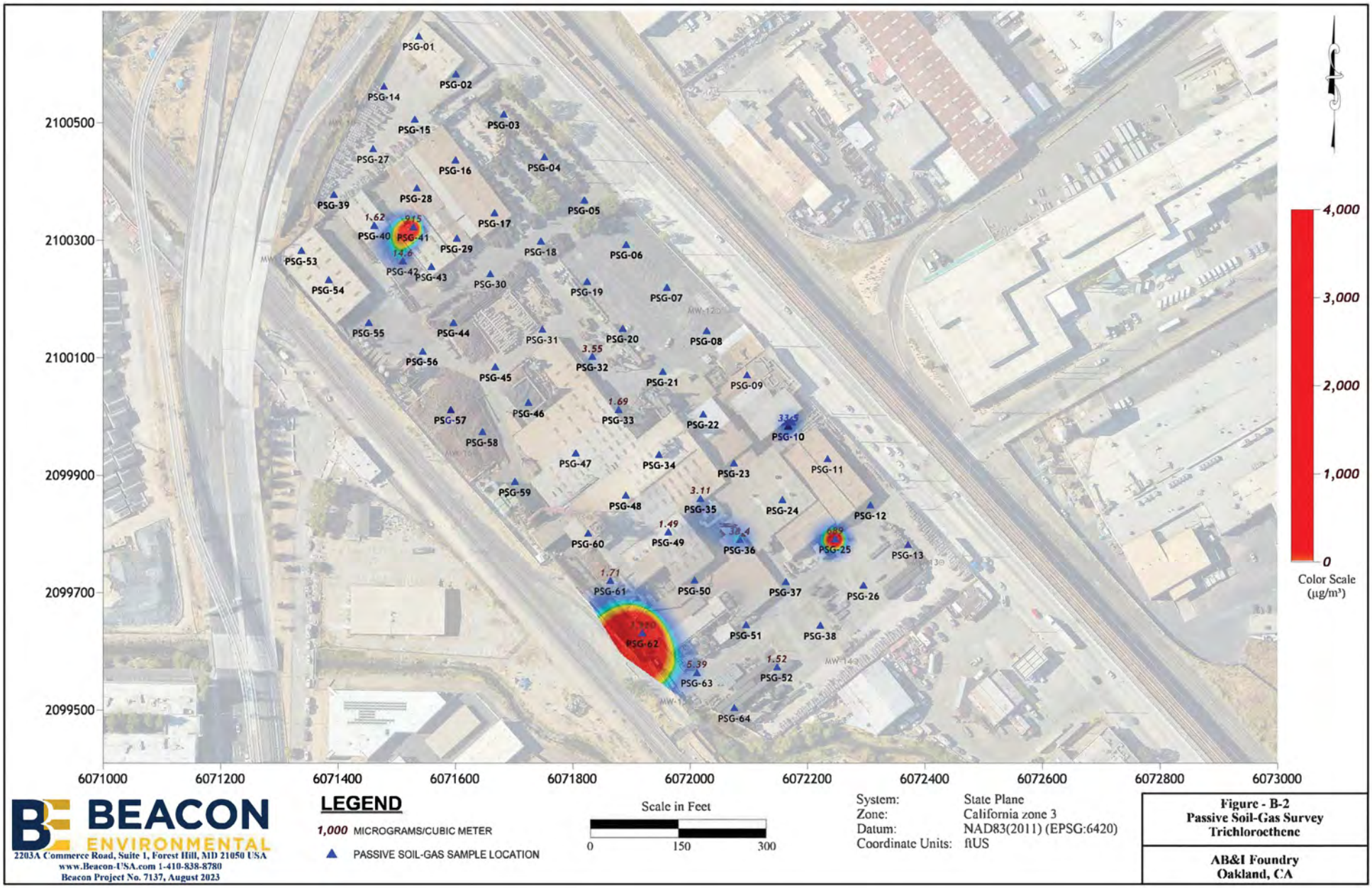
0 150 300

| | |
|---|---|
| System: | State Plane |
| Zone: | California zone 3 |
| Datum: | NAD83(2011) (EPSG:6420) |
| Coordinate Units: | ftUS |

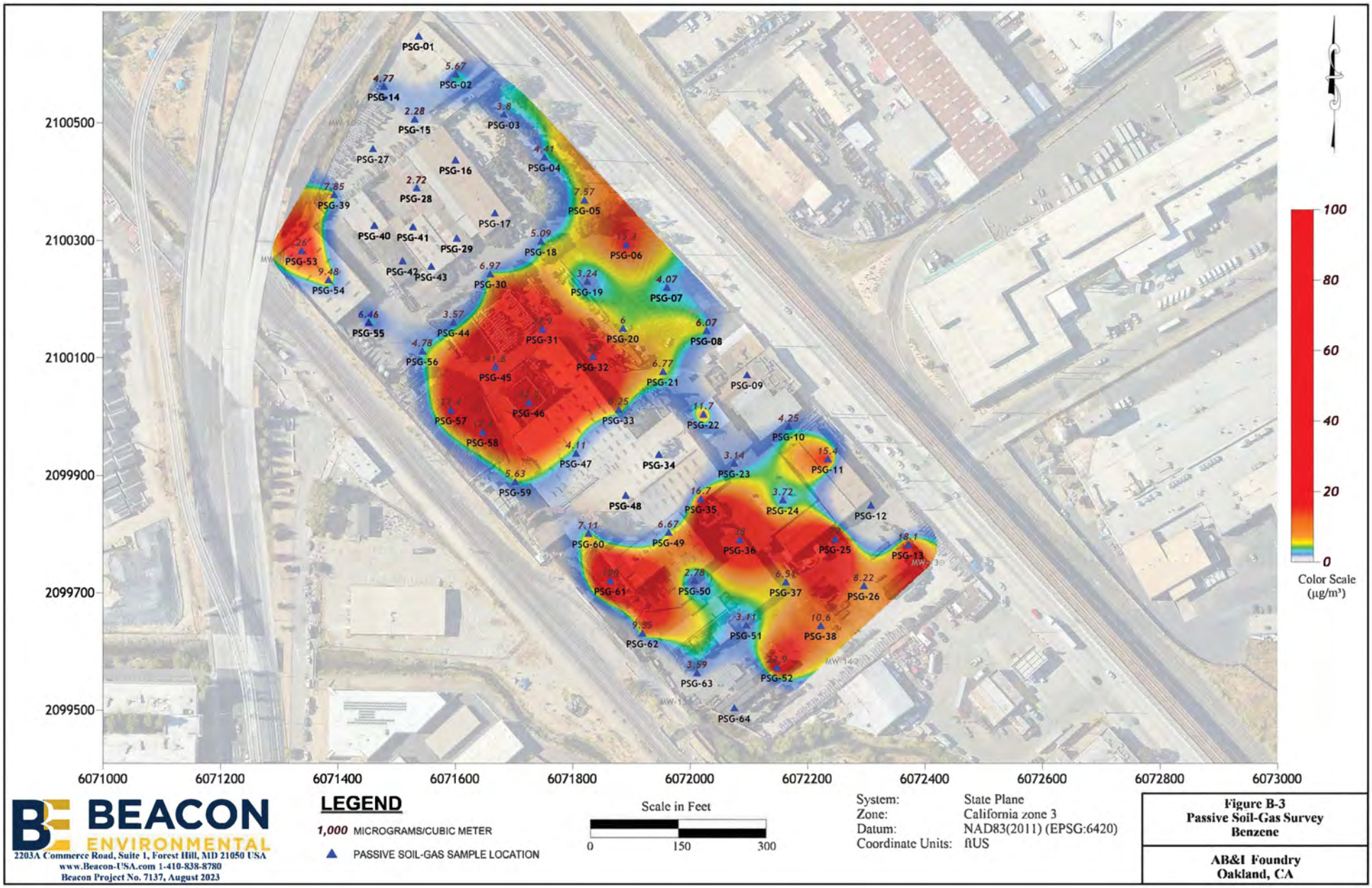
**Figure B-1**
**Passive Soil-Gas Survey**
**Tetrachloroethene**

**AB&I Foundry**
**Oakland, CA**

BEACON ENVIRONMENTAL
2203A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8780
Beacon Project No. 7137, August 2023




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Beacon Project No. 7137, August 2023

**LEGEND**

*1,000* MICROGRAMS/CUBIC METER

▲ PASSIVE SOIL-GAS SAMPLE LOCATION

Scale in Feet: 0 150 300

| | |
|---|---|
| System: | State Plane |
| Zone: | California zone 3 |
| Datum: | NAD83(2011) (EPSG:6420) |
| Coordinate Units: | ftUS |

**Figure B-3**
**Passive Soil-Gas Survey**
**Benzene**

**AB&I Foundry**
**Oakland, CA**

# APPENDIX C

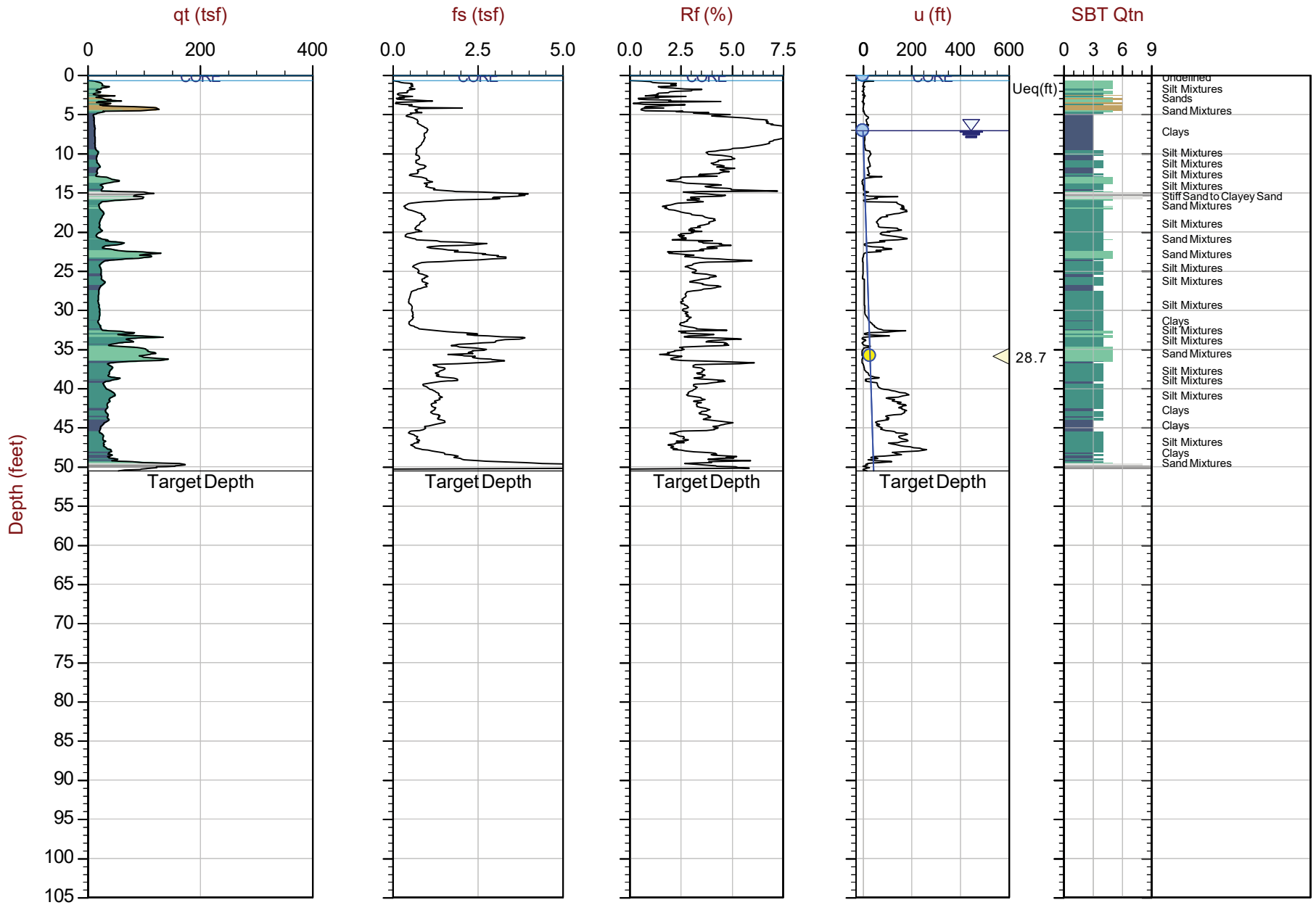
Langan Cone Penetration Test Logs

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-04 07:24
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-1
Cone: 813:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP01.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178533m E: 570897m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

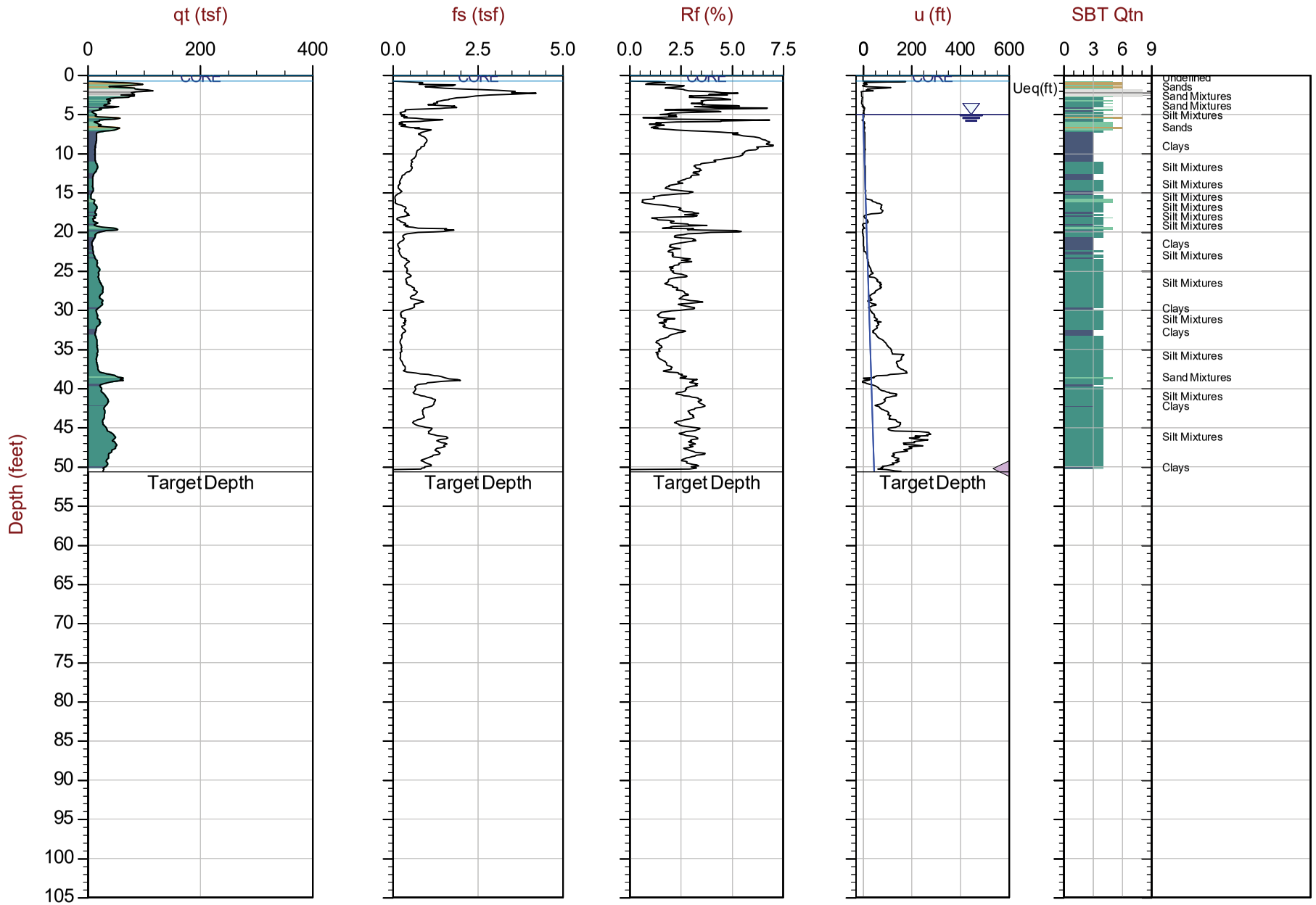
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-03 10:26
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-2
Cone: 813:T1500F15U35




Max Depth: 15.425 m / 50.61 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP02.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178388m E: 570993m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

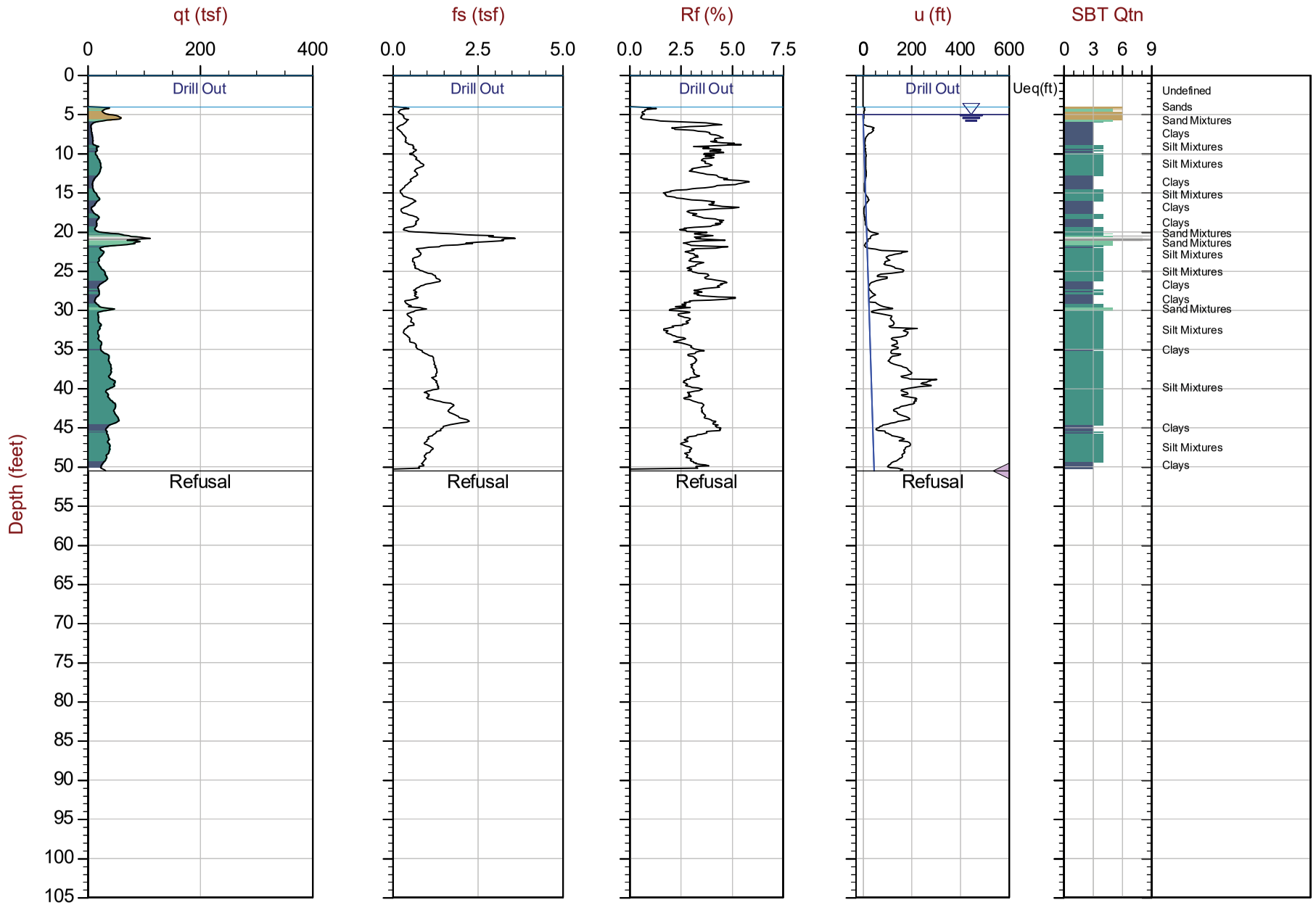
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-04 14:19
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-3
Cone: 813:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP03.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178382m E: 571037m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

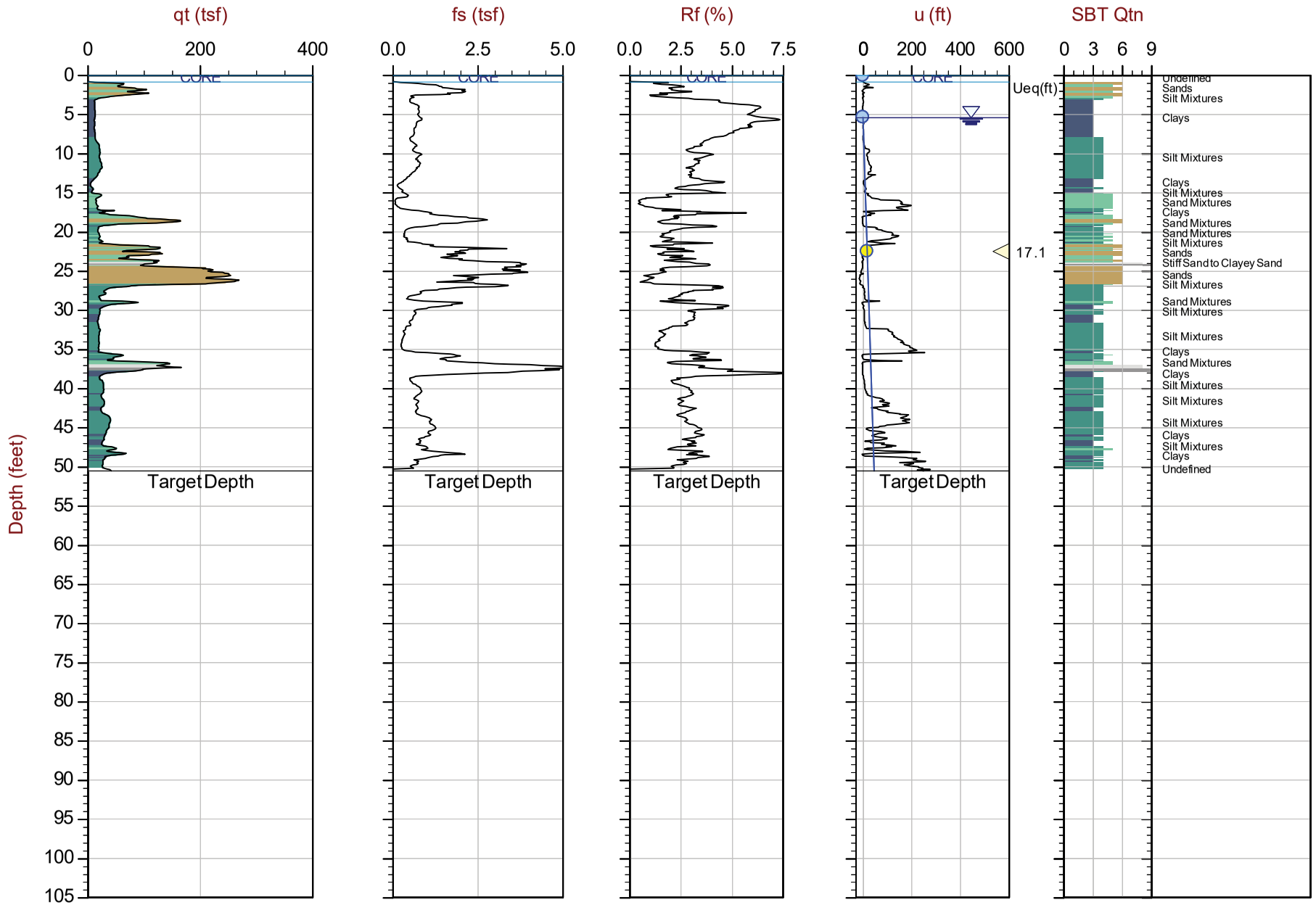
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-04 12:29
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-4
Cone: 813:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP04.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178336m E: 571083m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

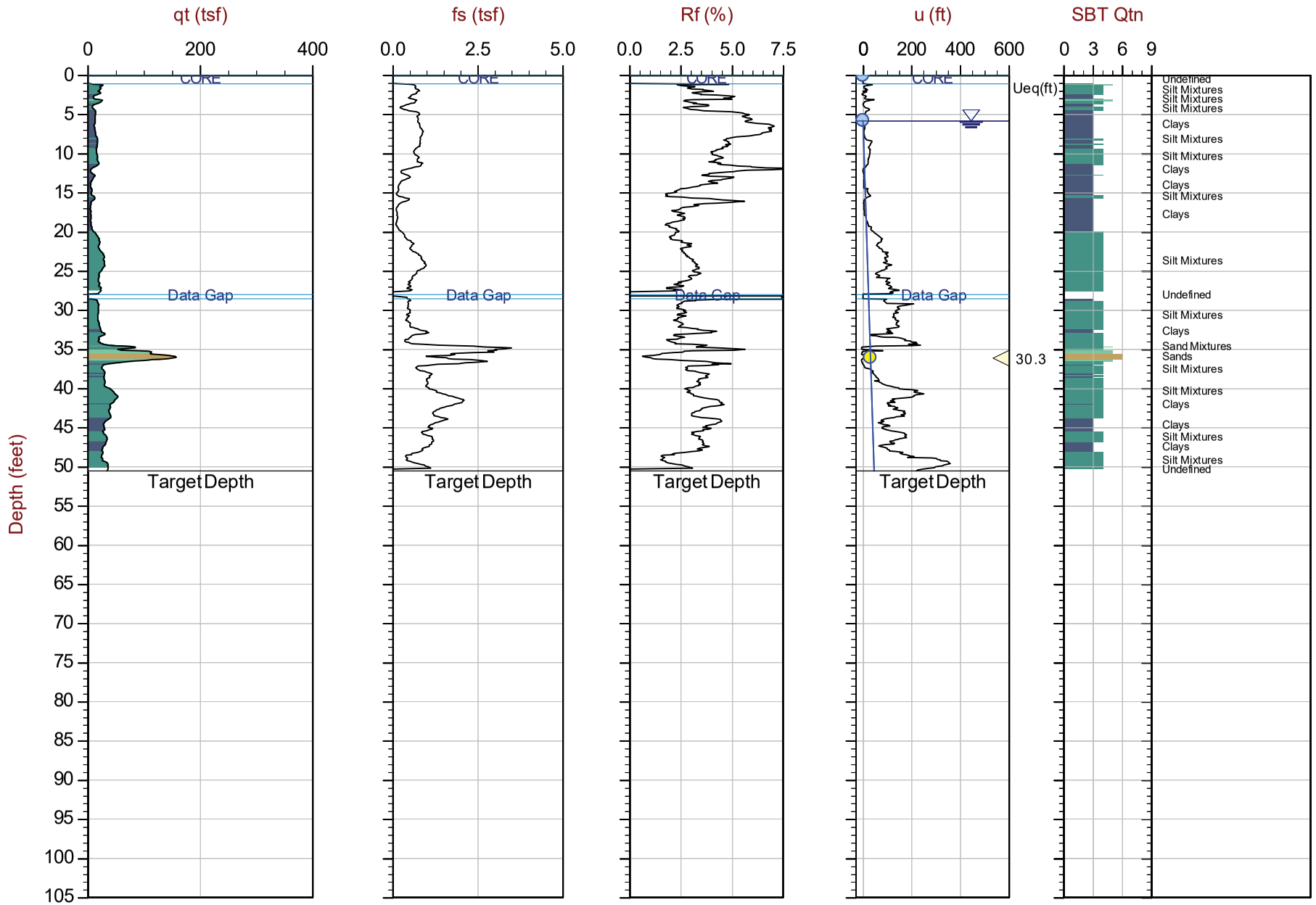
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-03 07:55
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-5
Cone: 965:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP05.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178469m E: 570890m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

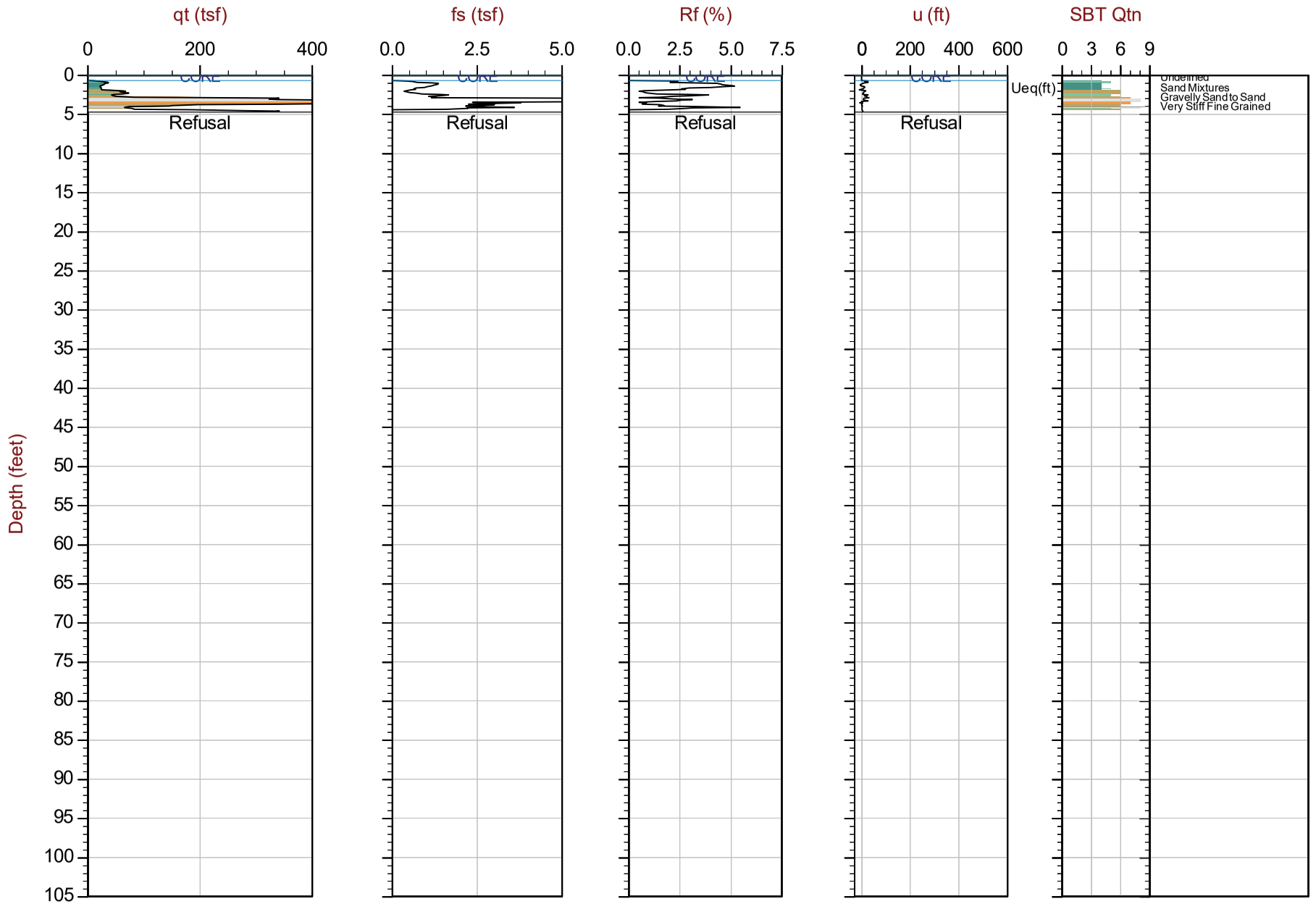
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-03 09:30
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-6
Cone: 965:T1500F15U35




Max Depth: 1.425 m / 4.68 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_SP06.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178388m E: 570957m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

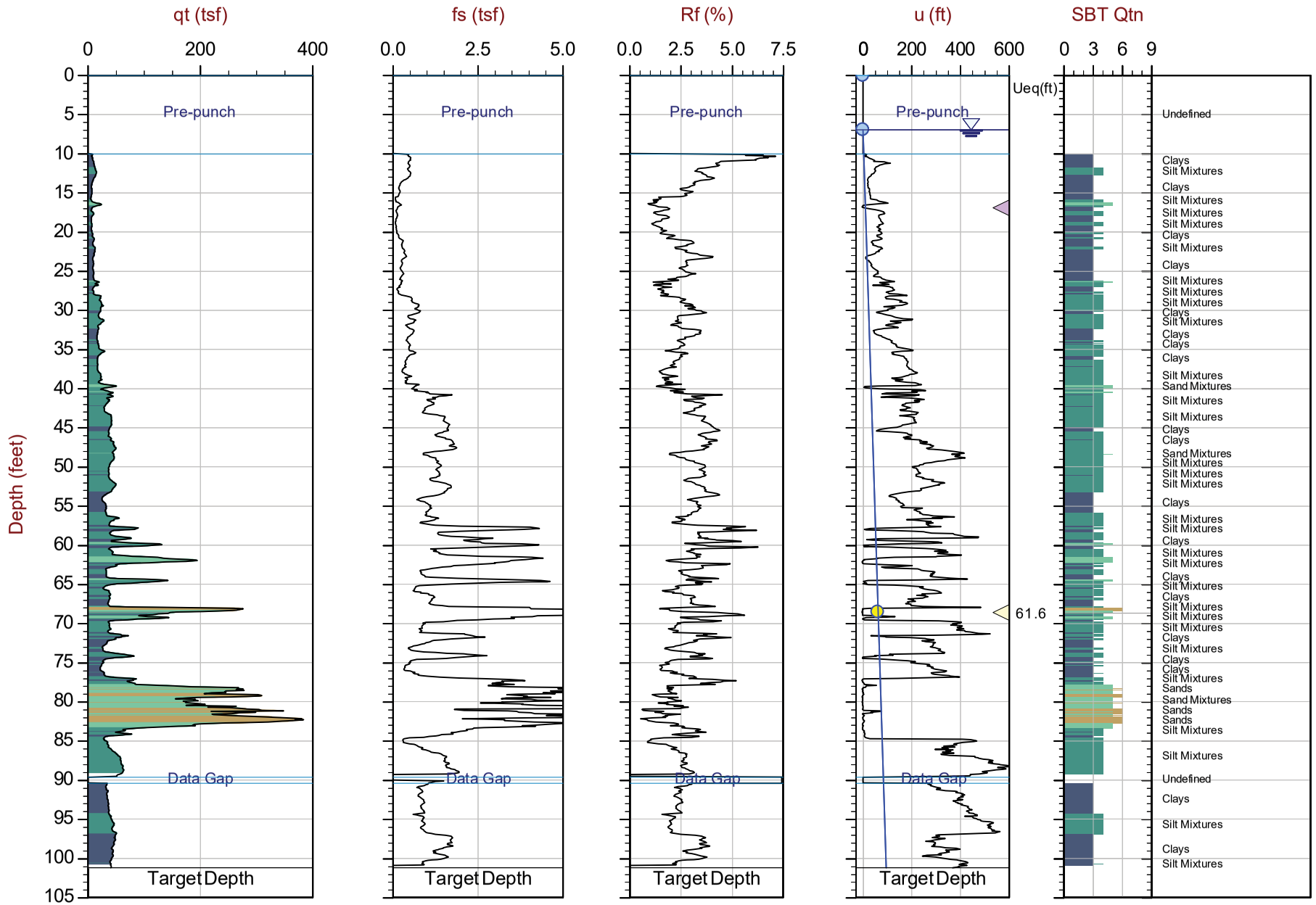
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-03 11:41
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-6A
Cone: 813:T1500F15U35




Max Depth: 30.850 m / 101.21 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_SP06A.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178389m E: 570958m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

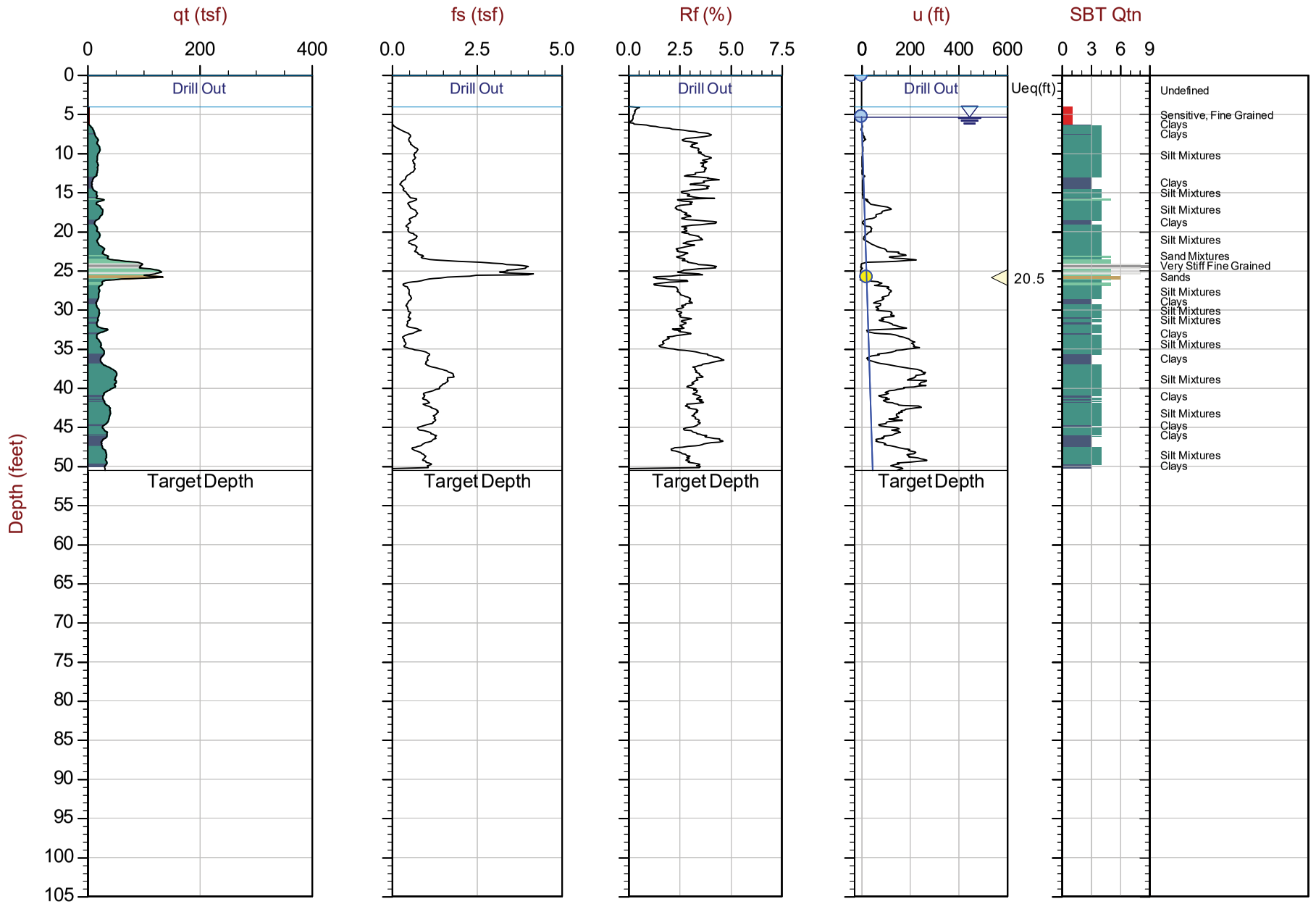
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-06 15:04
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-7
Cone: 813:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP07.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178328m E: 571012m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

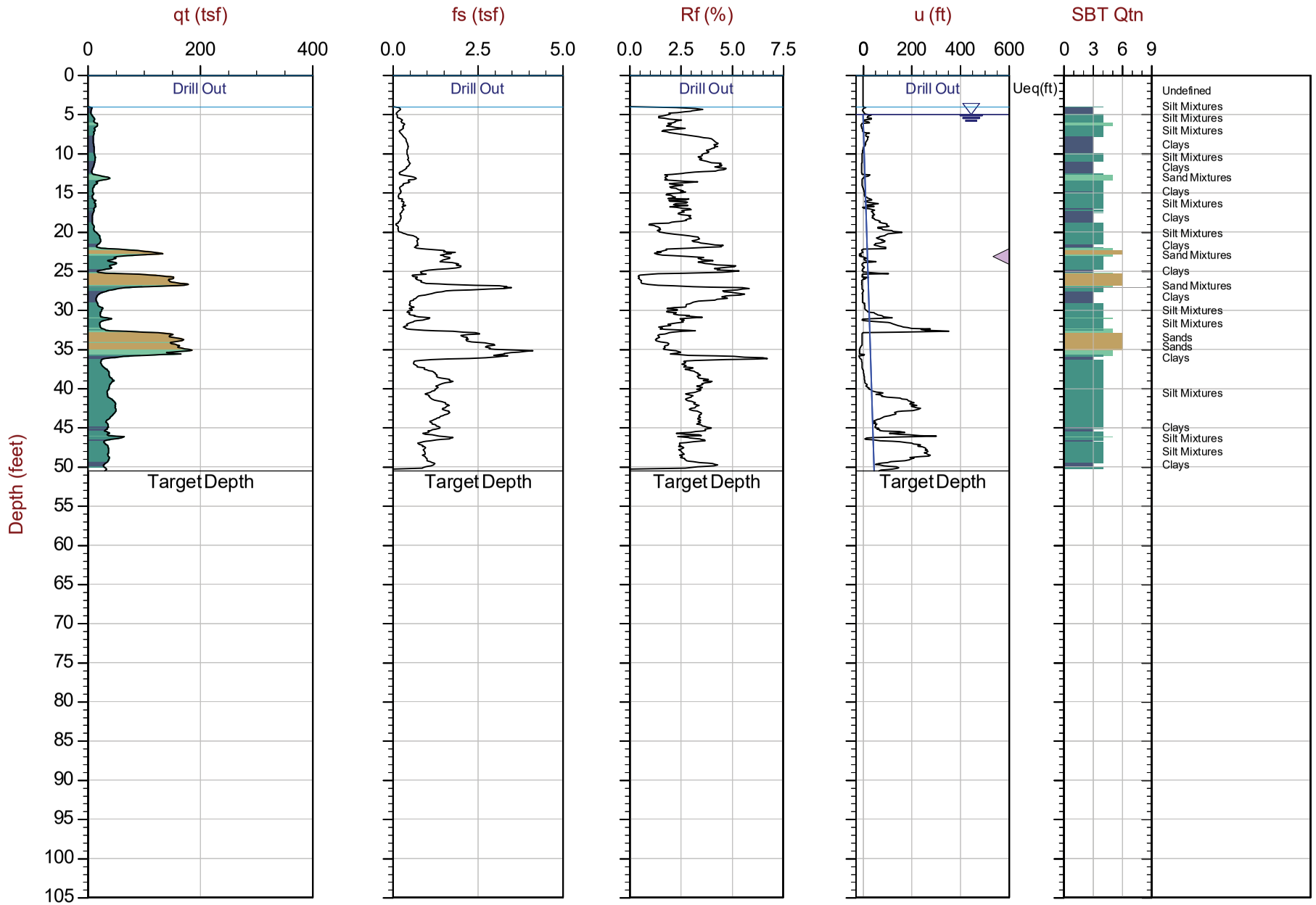
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-06 08:08
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-8
Cone: 813:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP08.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178295m E: 571037m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

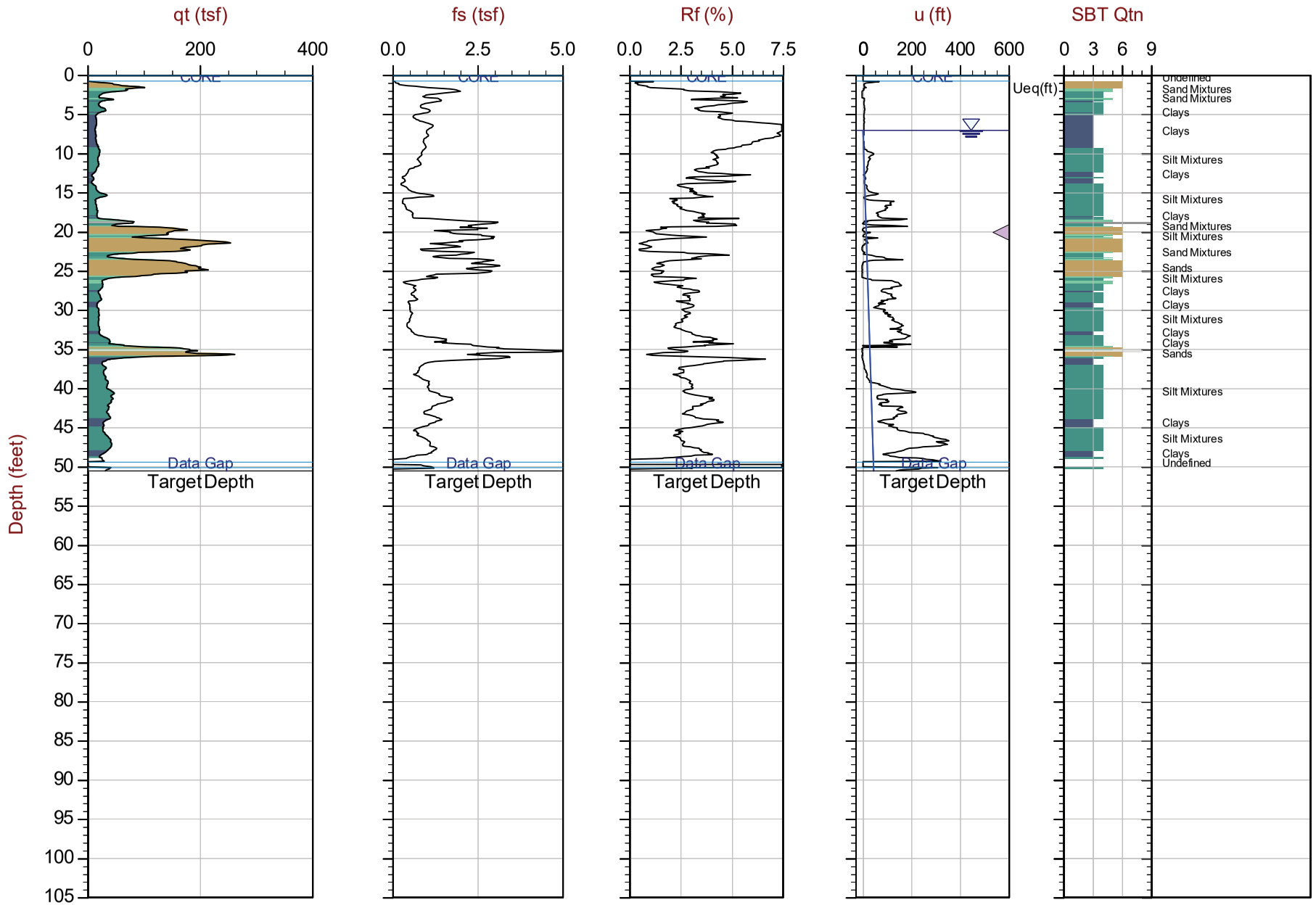
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-04 08:59
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-9
Cone: 813:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP09.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178472m E: 570833m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

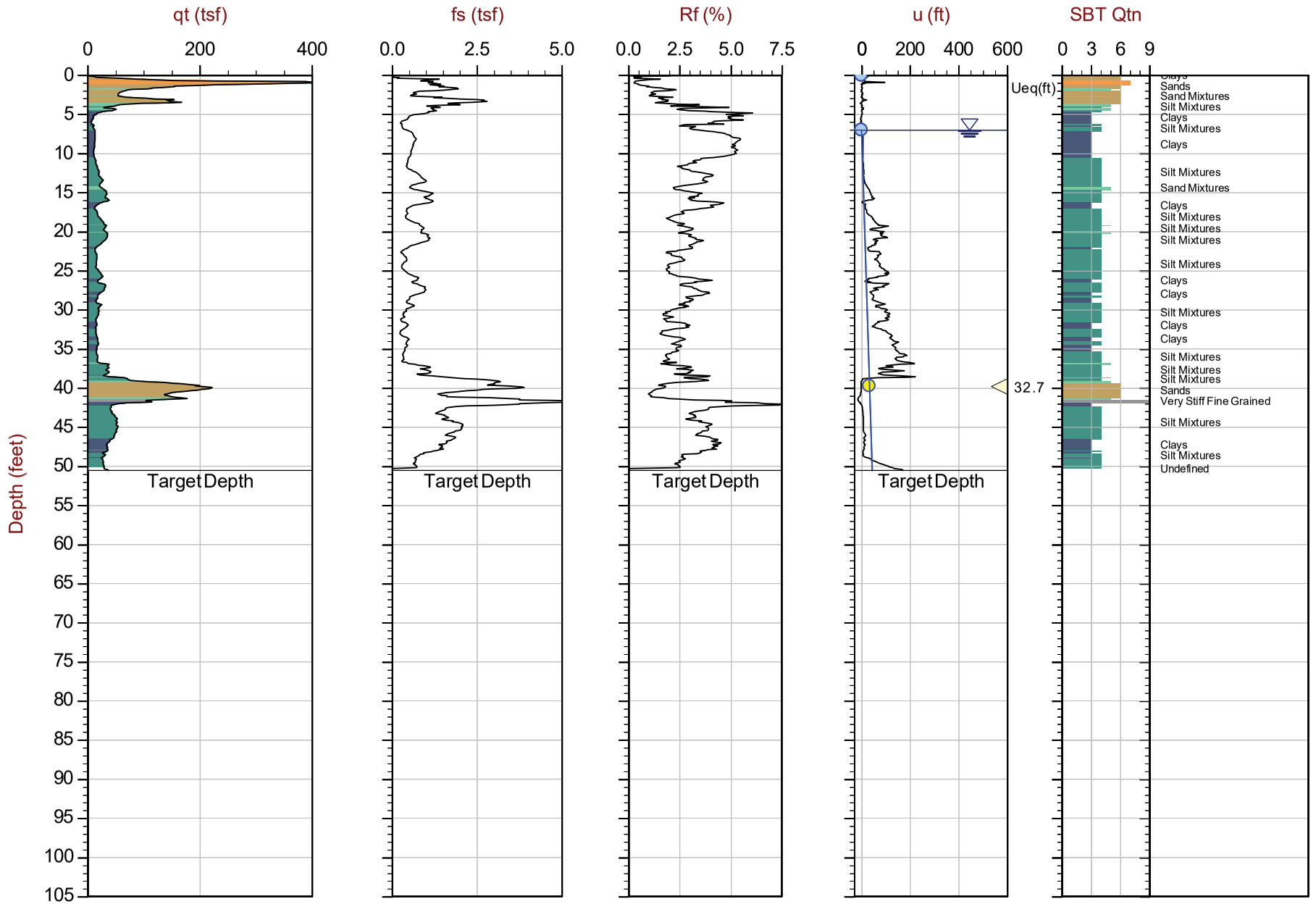
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-03 15:52
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-10
Cone: 813:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP10.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178392m E: 570879m

Overplot Item: Ueq  Assumed Ueq  Dissipation, Ueq achieved  Dissipation, Ueq not achieved  Dissipation, Ueq assumed  Hydrostatic Line

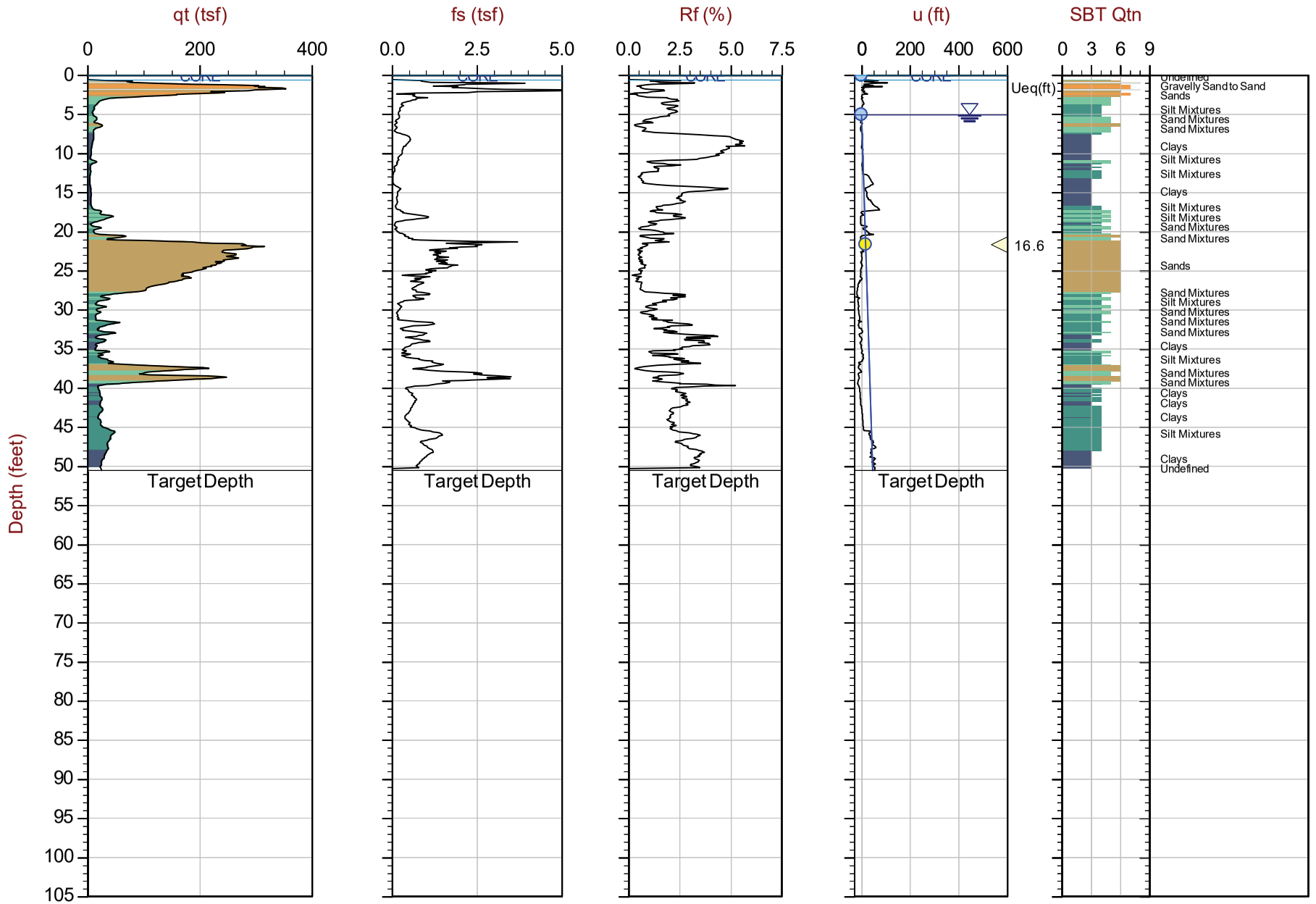
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

# Langan Engineering

Job No: 24-56-27770
Date: 2024-06-06 10:04
Site: 7825 San Leandro Street (The Foundry)

Sounding: LC-11
Cone: 813:T1500F15U35




Max Depth: 15.400 m / 50.52 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 24-56-27770_CP11.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: (UTM Zone 10 North) N: 4178243m E: 571044m

Overplot Item: Ueq | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Dissipation, Ueq assumed | Hydrostatic Line

The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

# APPENDIX D

Permits

# Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 05/17/2024 By Eneyew**

**Permit Numbers: W2024-0330**
**Permits Valid from 05/20/2024 to 05/24/2024**

| | | | |
|---|---|---|---|
| **Application Id:** | 1715042907687 | **City of Project Site:** | Oakland |
| **Site Location:** | 7825 San Leandro St, Oakland, CA 94621, USA-AB&I Redevelopment-ACDEH#:RO00035359(Water sampling BS_E1-1, 150 feet grid soil sampling G-A1-1, Bio Swale soil sampling G/BS-A2-1,Utility corridor G/UC-C1) | | |
| **Project Start Date:** | 05/20/2024 | **Completion Date:** | 05/24/2024 |
| **Agency Representative:** | Contact Tony Xiong at (510) 213-9906 or tonyx@grzones.com | | |
| **Applicant:** | Roux Associates - Joshua Osborne<br>555 12th Street, Oakland, CA 94607 | **Phone:** | 209-658-4326 |
| **Property Owner:** | Gavin Fisco<br>Pier 1, Bay 1, San Francisco, CA 94111 | **Phone:** | -- |
| **Client:** | ** same as Property Owner ** | | |

| | | |
|---|---|---|
| | **Total Due:** | $4950.00 |
| **Receipt Number: WR2024-0185** | **Total Amount Paid:** | $4950.00 |
| **Payer Name : Joshua Osborne** | Paid By: VISA | **PAID IN FULL** |

**Works Requesting Permits:**

Borehole(s) for Investigation-Soil and water only-Environmental/Monitorinig Study - 57 Boreholes
Driller: Cascade Environmental - Lic #: 1058336 - Method: DP **Work Total: $4950.00**

**Specifications**

| Permit Number | Issued Dt | Expire Dt | # Boreholes | Hole Diam | Max Depth |
|---|---|---|---|---|---|
| W2024-0330 | 05/17/2024 | 08/18/2024 | 57 | 2.25 in. | 30.00 ft |

**Specific Work Permit Conditions**

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. All borehole destruction work requires inspection by ACPWA; Except for special circumstances, all work that requires inspection must be performed during the work hours of 9:00 a.m. to 3:30 p.m., Monday through Friday, except holidays.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

8. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained. Provide copies of all approved permits obtained to County inspector prior to starting drilling.

10. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

# Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 05/17/2024 By Eneyew**

**Permit Numbers: W2024-0329**
**Permits Valid from 05/20/2024 to 05/24/2024**

**Application Id:** 1715054596144 **City of Project Site:** Oakland
**Site Location:** 7825 San Leandro St, Oakland, CA 94621, USA-AB&I Redevelopment, ACDEH #: RO0003535
**Project Start Date:** 05/20/2024 **Completion Date:** 05/24/2024
**Agency Representative:** Contact Tony Xiong at (510) 213-9906 or tonyx@grzones.com

**Applicant:** Roux Associates - Joshua Osborne **Phone:** 209-658-4326
555 12th Street, Suite 250, Oakland, CA 94607
**Property Owner:** Gavin Fisco **Phone:** --
Pier 1, Bay 1, San Francisco, CA 94111
**Client:** ** same as Property Owner **

**Total Due:** $1210.00
**Receipt Number: WR2024-0184** **Total Amount Paid:** $1210.00
**Payer Name : Pianpian Wu** Paid By: VISA **PAID IN FULL**

**Works Requesting Permits:**

Well Construction-Vapor monitoring well-Vapor monitoring well - 13 Wells
Driller: Cascade Environmental - Lic #: 1058336 - Method: DP **Work Total: $1210.00**

**Specifications**

| Permit # | Issued Date | Expire Date | Owner Well Id | Hole Diam. | Casing Diam. | Seal Depth | Max. Depth |
|---|---|---|---|---|---|---|---|
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-06 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-10 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-13 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-25 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-32 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-36 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-41 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-45 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-52 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-53 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-57 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-61 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |
| W2024-0329 | 05/17/2024 | 08/18/2024 | SVP-62 | 2.25 in. | 0.25 in. | 3.00 ft | 8.00 ft |

**Specific Work Permit Conditions**

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County

Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

3. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned.

5. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

6. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

7. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

8. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

10. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

11. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

12. All borehole destruction work requires inspection by ACPWA; Except for special circumstances, all work that requires inspection must be performed during the work hours of 9:00 a.m. to 3:30 p.m., Monday through Friday, except holidays.

# APPENDIX E

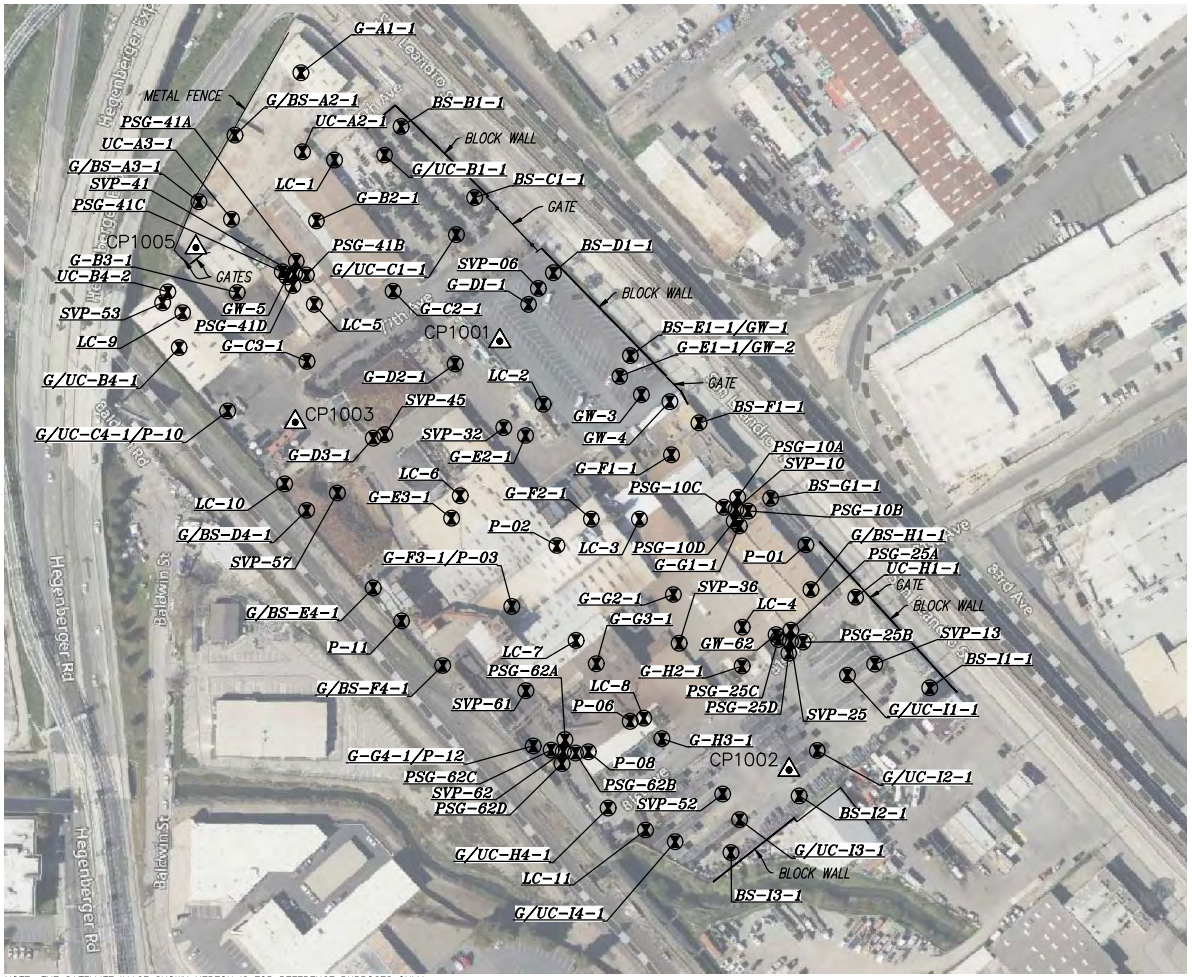
Site Plan with Sample Stake Locations

# SITE PLAN

## SAMPLE STAKING LOCATIONS

## *PROJECT: FORMER AB&I FOUNDRY SITE*

## *(7825 SAN LEANDRO STREET, OAKLAND, CA 94621)*




NOTE: THE SATELLITE IMAGE SHOWN HEREON IS FOR REFERENCE PURPOSES ONLY

| CONTROL POINTS | | | | |
|---|---|---|---|---|
| CP# | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| CP1001 | 2100229.70' | 6071833.72' | 14.12' | SET MAGNAIL & SHINER |
| CP1002 | 2099608.30' | 6072252.80' | 11.71' | SET MAGNAIL |
| CP1003 | 2100112.13' | 6071537.32' | 11.46' | SET MAGNAIL & SHINER |
| CP1005 | 2100365.20' | 6071393.51' | 11.74' | SET MAGNAIL |

GRAPHIC SCALE

180 0 90 180

FEET

LEGEND

- SOIL BORING
- CONTROL POINT
- FS FINISH SURFACE
- WROUGHT IRON FENCE

VICINITY MAP




| BASIS OF COORDINATES |
|---|
| THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, (2022) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE DETERMINED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING CALIFORNIA SURVEYING & DRAFTING SUPPLY REAL TIME NETWORK (C.S.D.S. R.T.N.) CONTINUOUSLY OPERATING REFERENCE STATIONS (C.O.R.S.):<br><br>C.S.D.S. C.O.R.S. BR1J:<br>NORTHING = 2145466.38' EASTING = 6053797.72'<br><br>C.S.D.S. C.O.R.S. HM1J:<br>NORTHING = 2011442.91' EASTING = 5988530.78'<br><br>THE COMBINATION FACTOR FOR THIS PROJECT WAS APPLIED AT THE FOLLOWING POINT:<br>NORTHING = 2099983.38' EASTING = 6071874.61'<br><br>MAPPING ANGLE = -1°02'14" SCALE FACTOR = 1.00006633 |

| BENCHMARK |
|---|
| THE ELEVATIONS SHOWN HEREON ARE BASED UPON NGS POINT PID "HT0281"; ELEVATION 14.20 FEET (NAVD 88) (USGS QUAD 2018).<br><br>DESCRIPTION: DESCRIBED BY COAST AND GEODETIC SURVEY 1969 – 0.6 MI NW FROM OAKLAND. 0.6 MILE NORTHWEST ALONG THE SOUTHERN PACIFIC COMPANY RAILROAD FROM THE CROSSING OF 98TH AVENUE AT OAKLAND, 0.1 MILE SOUTHEAST OF THE CROSSING OF 85TH AVENUE, IN THE TOP AND 1.1 FEET NORTHWEST OF THE SOUTHEAST EN D OF THE SOUTHWEST CONCRETE HEAD WALL OF A 36-INCH PIPE CULVERT, 46.6 FEET SOUTHWEST OF THE SOUTHWEST RAIL, 24 1/2 FEET NORTHEAST OF THE CENTER LINE OF RAILROAD AVENUE. ABOUT 1 FOOT LOWER THAN THE RAILROAD TRACK AND 2 1/2 FEET HIGHER THAN THE AVENUE. |

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | REVISIONS | BY |
| 0 | 05/23/24 | STAKING | BO |

PREPARED FOR

ROUX

555 12TH STREET, SUITE 250
OAKLAND, CA 94607
PHONE: (415) 967-6000

SURVEYOR OF RECORD

DATE OF SURVEY: MAY 16, 2024

LICENSED LAND SURVEYOR — Armando D. DuPont — L.S. 7780 — Date Signed: 05/23/2024 — STATE OF CALIFORNIA


CALVADA SURVEYING, INC.
411 Jenks Cir., Suite 205, Corona, CA 92880
Phone: 951-280-9960 Fax: 951-280-9746
Toll Free: 800-CALVADA www.calvada.com
EST. 1989 JOB NO. 23533-1
Armando D.DuPont
Registration No. 7780

# SITE PLAN

## SAMPLE STAKING LOCATIONS

## *PROJECT: FORMER AB&I FOUNDRY SITE*

## *(7825 SAN LEANDRO STREET, OAKLAND, CA 94621)*

SURVEYED MAY 16, 2024

**SAMPLE STAKING LOCATIONS**

| LOCATION | NORTHING (FEET) | EASTING (FEET) | LATITUDE (DD) | LONGITUDE (DD) | FS (ELEVATION) |
|---|---|---|---|---|---|
| BS-B1-1 | 2100540.46 | 6071690.82 | 37.7515094 | -122.1948492 | 13.66 |
| BS-C1-1 | 2100437.63 | 6071797.25 | 37.7512324 | -122.1944747 | 12.61 |
| BS-D1-1 | 2100328.87 | 6071911.38 | 37.7509394 | -122.1940732 | 13.65 |
| BS-E1-1/GW-1 | 2100208.51 | 6072023.04 | 37.7506145 | -122.1936795 | 13.14 |
| BS-F1-1 | 2100111.20 | 6072122.44 | 37.7503522 | -122.1933297 | 14.04 |
| BS-G1-1 | 2100001.90 | 6072226.27 | 37.7500572 | -122.1929638 | 12.80 |
| BS-I1-1 | 2099727.29 | 6072456.76 | 37.7493146 | -122.1921495 | 13.37 |
| BS-I2-1 | 2099570.80 | 6072267.62 | 37.7488755 | -122.1927938 | 11.77 |
| BS-I3-1 | 2099488.71 | 6072168.73 | 37.7486452 | -122.1931307 | 11.77 |
| G/BS-A2-1 | 2100527.85 | 6071449.93 | 37.7514629 | -122.1956815 | 12.63 |
| G/BS-A3-1 | 2100431.59 | 6071397.95 | 37.7511959 | -122.1958552 | 12.53 |
| G/BS-D4-1 | 2099984.42 | 6071554.10 | 37.7499758 | -122.1952872 | 13.57 |
| G/BS-E4-1 | 2099871.93 | 6071650.54 | 37.7496717 | -122.1949467 | 12.36 |
| G/BS-F4-1 | 2099759.71 | 6071751.11 | 37.7493686 | -122.1945918 | 10.81 |
| G/BS-H1-1 | 2099869.54 | 6072284.51 | 37.7496967 | -122.1927541 | 12.09 |
| G/UC-B1-1 | 2100499.04 | 6071666.86 | 37.7513945 | -122.1949295 | 12.39 |
| G/UC-B4-1 | 2100220.22 | 6071369.32 | 37.7506141 | -122.1959410 | 12.36 |
| G/UC-C1-1 | 2100383.87 | 6071770.83 | 37.7510835 | -122.1945627 | 12.39 |
| G/UC-C4-1/P-10 | 2100128.44 | 6071439.60 | 37.7503656 | -122.1956922 | 11.07 |
| G/UC-H4-1 | 2099553.25 | 6071990.79 | 37.7488136 | -122.1937500 | 10.85 |
| G/UC-I1-1 | 2099745.65 | 6072337.29 | 37.7493591 | -122.1925638 | 12.15 |
| G/UC-I2-1 | 2099636.54 | 6072293.64 | 37.7490573 | -122.1927079 | 11.42 |
| G/UC-I3-1 | 2099536.44 | 6072181.18 | 37.7487769 | -122.1930906 | 11.77 |
| G/UC-I4-1 | 2099504.34 | 6072087.88 | 37.7486841 | -122.1934112 | 11.53 |
| G-A1-1 | 2100618.44 | 6071545.68 | 37.7517163 | -122.1953561 | 12.95 |
| G-B2-1 | 2100403.79 | 6071568.25 | 37.7511281 | -122.1952645 | 12.12 |
| G-B3-1 | 2100300.03 | 6071453.27 | 37.7508374 | -122.1956557 | 12.44 |
| G-C2-1 | 2100301.98 | 6071679.37 | 37.7508541 | -122.1948739 | 11.77 |
| G-C3-1 | 2100200.19 | 6071554.52 | 37.7505683 | -122.1952993 | 11.22 |
| G-D2-1 | 2100196.44 | 6071769.05 | 37.7505687 | -122.1945571 | 13.35 |
| G-D3-1 | 2100089.14 | 6071650.43 | 37.7502682 | -122.1949606 | 13.14 |
| G-DI-1 | 2100282.90 | 6071875.55 | 37.7508114 | -122.1941942 | 14.09 |
| G-E1-1/GW-2 | 2100178.60 | 6072007.63 | 37.7505316 | -122.1937309 | 13.89 |
| G-E2-1 | 2100092.92 | 6071871.12 | 37.7502895 | -122.1941977 | 14.01 |
| G-E3-1 | 2099973.13 | 6071763.87 | 37.7499552 | -122.1945610 | 13.61 |
| G-F1-1 | 2100064.94 | 6072082.41 | 37.7502232 | -122.1934652 | 11.04 |
| G-F2-1 | 2099971.72 | 6071966.35 | 37.7499614 | -122.1938608 | 11.03 |
| G-F3-1/P-03 | 2099845.10 | 6071851.22 | 37.7496080 | -122.1942510 | 11.36 |
| G-G1-1 | 2099961.83 | 6072181.12 | 37.7499450 | -122.1931174 | 11.31 |
| G-G2-1 | 2099862.51 | 6072085.40 | 37.7496675 | -122.1934422 | 11.40 |
| G-G3-1 | 2099762.38 | 6071973.81 | 37.7493870 | -122.1938219 | 10.54 |
| G-G4-1/P-12 | 2099643.09 | 6071882.45 | 37.7490549 | -122.1941303 | 10.87 |
| G-H2-1 | 2099758.70 | 6072184.85 | 37.7493874 | -122.1930918 | 11.73 |
| G-H3-1 | 2099653.75 | 6072068.66 | 37.7490934 | -122.1934870 | 10.85 |
| GW-3 | 2100152.01 | 6072038.96 | 37.7504601 | -122.1936210 | 14.13 |
| GW-4 | 2100141.97 | 6072080.11 | 37.7504346 | -122.1934780 | 13.92 |
| GW-5 | 2100322.73 | 6071525.45 | 37.7509034 | -122.1954075 | 11.66 |
| GW-62 | 2099804.51 | 6072233.94 | 37.7495156 | -122.1929249 | 11.88 |
| LC-1 | 2100491.82 | 6071594.33 | 37.7513711 | -122.1951799 | 12.93 |
| LC-2 | 2100138.23 | 6071896.74 | 37.7504152 | -122.1941119 | 14.64 |
| LC-3 | 2099971.56 | 6072036.13 | 37.7499645 | -122.1936194 | 11.19 |
| LC-4 | 2099815.19 | 6072185.30 | 37.7495425 | -122.1930938 | 11.90 |
| LC-5 | 2100282.99 | 6071565.07 | 37.7507962 | -122.1952680 | 11.36 |
| LC-6 | 2100005.70 | 6071776.40 | 37.7500453 | -122.1945198 | 14.12 |
| LC-7 | 2099795.90 | 6071944.23 | 37.7494776 | -122.1939262 | 11.15 |
| LC-8 | 2099683.32 | 6072042.50 | 37.7491733 | -122.1935794 | 9.81 |
| LC-9 | 2100270.79 | 6071374.42 | 37.7507532 | -122.1959265 | 12.40 |
| LC-10 | 2100022.72 | 6071522.19 | 37.7500794 | -122.1953999 | 13.30 |
| LC-11 | 2099521.34 | 6072045.12 | 37.7487287 | -122.1935602 | 11.45 |
| P-01 | 2099934.31 | 6072277.36 | 37.7498742 | -122.1927829 | 13.27 |
| P-02 | 2099933.49 | 6071916.53 | 37.7498540 | -122.1940306 | 11.29 |
| P-06 | 2099678.83 | 6072022.74 | 37.7491600 | -122.1936474 | 9.91 |
| P-08 | 2099634.69 | 6071962.17 | 37.7490358 | -122.1938541 | 10.25 |
| P-11 | 2099824.12 | 6071691.41 | 37.7495425 | -122.1948023 | 11.31 |
| PSG-10A | 2100003.41 | 6072178.54 | 37.7500590 | -122.1931289 | 11.38 |
| PSG-10B | 2099983.45 | 6072193.71 | 37.7500050 | -122.1930752 | 11.42 |
| PSG-10C | 2099988.99 | 6072158.43 | 37.7500184 | -122.1931976 | 11.25 |
| PSG-10D | 2099969.00 | 6072173.41 | 37.7499643 | -122.1931445 | 11.28 |
| PSG-25A | 2099810.96 | 6072255.37 | 37.7495344 | -122.1928512 | 11.74 |
| PSG-25B | 2099793.48 | 6072273.13 | 37.7494873 | -122.1927887 | 11.97 |
| PSG-25C | 2099797.43 | 6072237.25 | 37.7494963 | -122.1929130 | 11.92 |
| PSG-25D | 2099777.48 | 6072252.40 | 37.7494423 | -122.1928594 | 11.89 |
| PSG-41A | 2100345.36 | 6071538.88 | 37.7509662 | -122.1953625 | 11.38 |
| PSG-41B | 2100325.18 | 6071553.70 | 37.7509115 | -122.1953099 | 11.55 |
| PSG-41C | 2100329.90 | 6071518.79 | 37.7509227 | -122.1954310 | 11.41 |
| PSG-41D | 2100310.01 | 6071534.00 | 37.7508689 | -122.1953771 | 11.40 |
| PSG-62A | 2099652.06 | 6071928.39 | 37.7490818 | -122.1939720 | 10.84 |
| PSG-62B | 2099632.76 | 6071943.66 | 37.7490296 | -122.1939180 | 10.94 |
| PSG-62C | 2099637.27 | 6071908.20 | 37.7490402 | -122.1940409 | 10.73 |
| PSG-62D | 2099617.36 | 6071923.87 | 37.7489863 | -122.1939855 | 10.79 |
| SVP-06 | 2100305.93 | 6071889.72 | 37.7508753 | -122.1941467 | 13.88 |
| SVP-10 | 2099986.23 | 6072175.99 | 37.7500117 | -122.1931367 | 11.34 |
| SVP-13 | 2099761.85 | 6072377.04 | 37.7494056 | -122.1924274 | 12.60 |
| SVP-25 | 2099795.15 | 6072254.93 | 37.7494909 | -122.1928517 | 11.51 |
| SVP-32 | 2100104.31 | 6071839.57 | 37.7503192 | -122.1943075 | 14.08 |
| SVP-36 | 2099791.95 | 6072093.60 | 37.7494741 | -122.1934094 | 11.42 |
| SVP-41 | 2100327.62 | 6071536.37 | 37.7509173 | -122.1953700 | 11.59 |
| SVP-45 | 2100094.01 | 6071667.23 | 37.7502824 | -122.1949028 | 13.31 |
| SVP-52 | 2099573.46 | 6072156.93 | 37.7488773 | -122.1931768 | 11.71 |
| SVP-53 | 2100285.25 | 6071345.42 | 37.7507915 | -122.1960277 | 12.46 |
| SVP-57 | 2100009.59 | 6071598.57 | 37.7500471 | -122.1951350 | 14.10 |
| SVP-61 | 2099723.12 | 6071871.74 | 37.7492741 | -122.1941724 | 10.87 |
| SVP-62 | 2099634.82 | 6071925.85 | 37.7490344 | -122.1939797 | 10.63 |
| UC-A2-1 | 2100503.99 | 6071548.11 | 37.7514022 | -122.1953405 | 12.43 |
| UC-A3-1 | 2100406.25 | 6071445.19 | 37.7511287 | -122.1956903 | 12.16 |
| UC-B4-2 | 2100301.12 | 6071352.87 | 37.7508354 | -122.1960030 | 12.41 |
| UC-H1-1 | 2099858.44 | 6072349.27 | 37.7496694 | -122.1925294 | 12.74 |

DD: DECIMAL DEGREES
NOTE: LOCATIONS STAKED PER CLIENT PROVIDED DATA

### BASIS OF COORDINATES

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, (2022) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801–8819; SAID COORDINATES ARE DETERMINED LOCALLY UPON FIELD–OBSERVED TIES TO THE FOLLOWING CALIFORNIA SURVEYING & DRAFTING SUPPLY REAL TIME NETWORK (C.S.D.S. R.T.N.) CONTINUOUSLY OPERATING REFERENCE STATIONS (C.O.R.S.):

C.S.D.S. C.O.R.S. BR1J:
NORTHING = 2145466.38' EASTING = 6053797.72'

C.S.D.S. C.O.R.S. HM1J:
NORTHING = 2011442.91' EASTING = 5988530.78'

THE COMBINATION FACTOR FOR THIS PROJECT WAS APPLIED AT THE FOLLOWING POINT:
NORTHING = 2099983.38' EASTING = 6071874.61'

MAPPING ANGLE = –1°02'14" SCALE FACTOR = 1.00006633

### BENCHMARK

THE ELEVATIONS SHOWN HEREON ARE BASED UPON NGS POINT PID "HT0281"; ELEVATION 14.20 FEET (NAVD 88) (USGS QUAD 2018).

DESCRIPTION: DESCRIBED BY COAST AND GEODETIC SURVEY 1969 – 0.6 MI NW FROM OAKLAND. 0.6 MILE NORTHWEST ALONG THE SOUTHERN PACIFIC COMPANY RAILROAD FROM THE CROSSING OF 98TH AVENUE AT OAKLAND, 0.1 MILE SOUTHEAST OF THE CROSSING OF 85TH AVENUE, IN THE TOP AND 1.1 FEET NORTHWEST OF THE SOUTHEAST EN D OF THE SOUTHWEST CONCRETE HEAD WALL OF A 36–INCH PIPE CULVERT, 46.6 FEET SOUTHWEST OF THE SOUTHWEST RAIL, 24 1/2 FEET NORTHEAST OF THE CENTER LINE OF RAILROAD AVENUE. ABOUT 1 FOOT LOWER THAN THE RAILROAD TRACK AND 2 1/2 FEET HIGHER THAN THE AVENUE

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | REVISIONS | BY |
| 0 | 05/23/24 | STAKING | BO |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

PREPARED FOR
ROUX
555 12TH STREET, SUITE 250
OAKLAND, CA 94607
PHONE: (415) 967–6000

SURVEYOR OF RECORD
DATE OF SURVEY: MAY 16, 2024

LICENSED LAND SURVEYOR — Armando D. DuPont — L.S. 7780 — Date Signed: 05/23/2024 — STATE OF CALIFORNIA


CALVADA SURVEYING, INC.
411 Jenks Cir., Suite 205, Corona, CA 92880
Phone: 951-280-9960 Fax: 951-280-9746
Toll Free: 800-CALVADA www.calvada.com
EST. 1989


JOB NO. 23533-1

Armando D.DuPont
Registration No. 7780

# APPENDIX F

Boring Logs

ROUX
5150 E. Pacific Coast Highway, Suite 450
Long Beach, California 90804
Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| **BS-B1-1** | **Not Measured** | **Not Measured** | | |
| PROJECT NO./NAME | | LOCATION | | |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** | | |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** | | |
| **J.O.** | **J.A.** | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| **Cascade Drilling** | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/20/24-5/20/24** |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, few SILT (SW)** Orange brown, medium dense, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (25, 45, 10, 20) | BS-B1-1-1.0 | 2.9 | |
| | | | BS-B1-1-2.0 | 2.8 | |
| | | | BS-B1-1-3.0 | 5.7 | |
| | | At 3.0 ft bgs - lense of fine black sand and subangular gravel | | | |
| | | **SANDY CLAY, little GRAVEL, few SILT (CL)** Dark brown with orange brown mottling, soft, dry, fine to coarse grained, subangular sand and gravel, well graded, low to medium plasticity (15, 35, 10, 40) | BS-B1-1-4.0 | 4.7 | |
| 5 | | | BS-B1-1-5.0 | 7.7 | Boring terminated at 5 ft bgs |

NOTES:

ROUX
5150 E. Pacific Coast Highway, Suite 450
Long Beach, California 90804
Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| **BS-C1-1** | **Not Measured** | **Not Measured** | | |
| PROJECT NO./NAME | | LOCATION | | |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** | | |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** | | |
| **J.O.** | **D.B.** | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| **Cascade Drilling** | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/21/24-5/21/24** |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, TRACE SILT (SW)** Brown, loose, dry, fine to coarse grained, subangular, low plasticity (25, 50, 5, 30) | BS-C1-1-1.0 | 9.8 | |
| | | **CLAYEY SAND, few GRAVEL and SILT (SC)** Brown, soft, fine to medium grained, well graded, low plasticity (10, 60, 10, 20) | BS-C1-1-2.0 | 5.5 | |
| | | | BS-C1-1-3.0 | 7.1 | |
| | | **SANDY CLAY, few SILT (CL)** Dark brown/gray, soft, dry, fine to medium grained, well graded, medium plasticity (0, 35, 10, 55) | BS-C1-1-4.0 | 5.1 | |
| 5 | | | BS-C1-1-5.0 | 2.3 | Boring terminated at 5 ft bgs |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| **BS-D1-1** | **Not Measured** | **Not Measured** |

| PROJECT NO./NAME | LOCATION |
|---|---|
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | **AB&I - 7825 SAN LEANDRO STREET** |
| APPROVED BY: **J.O.** / LOGGED BY: **J.A.** | **OAKLAND, CALIFORNIA** |
| DRILLING CONTRACTOR/DRILLER: **Cascade Drilling** | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/24/24-5/24/24** |

| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL |
|---|---|---|
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** at 2 inches bgs - large gravel | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SANDY CLAY, little GRAVEL, trace SILT (CL)** Brown, dense, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (25, 30, 5, 40) at 0.7 ft bgs - color changes to orange brown | BS-D1-1-1.0 | 4.4 | |
| | | | BS-D1-1-2.0 | 5.3 | |
| | | | BS-D1-1-3.0 | 6.5 | |
| | | at 3.5 ft bgs - increase in gravel, fine to coarse grained | BS-D1-1-4.0 | 4.8 | |
| 5 | | **SAND, little GRAVEL and CLAY, few SILT (SW)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (25, 50, 10, 15) | BS-D1-1-5.0 | 6.1 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**BS-E1-1/GW-1** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**J.A.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/22/24-5/23/24** |
| LAND SURFACE ELEVATION<br>**Not Measured** | DEPTH TO WATER<br>**Not Encountered** | BACKFILL<br>**Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **SAND, little CLAY, few SILT (SW-SC)**<br>Light brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, little to no plasticity (5, 60, 10, 25) | BS-E1-1/GW-1-1.0 | 6.3 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay).<br>bgs = below ground surface.<br>Density estimates not intended for geotechnical purposes.<br>ft bgs = feet below ground surface. |
| | | | BS-E1-1/GW-1-2.0 | 8.3 | |
| | | | BS-E1-1/GW-1-3.0 | 10.8 | |
| | | | BS-E1-1/GW-1-4.0 | 7.7 | |
| 5 | | | BS-E1-1/GW-1-5.0 | | |
| | | at 5-6 ft bgs - sandy gravel, wet | | 5.9 | First encountered static water level: 8.38 ft bgs<br>Second water baring zone not encountered. |
| | | **SANDY CLAY, few GRAVEL (CL)**<br>Black, stiff, moist, fine to coarse grained, subangular sand and gravel, well graded, medium plasticity (10, 30, 0, 60) | | | |
| | | **SAND, little CLAY, few GRAVEL, trace SILT (SW-SC)**<br>Light brown, dense, moist, fine to coarse sand, subangular sand and gravel, well graded, low to no plasticity (10, 65, 5, 20) | | 8.1 | |
| 10 | | | | 9.2 | |
| | | **GRAVELY SAND, little SILT, few CLAY (SW-SM)**<br>Orange brown, loose, saturated, fine to coarse grained, subangular sand and gravel, well graded, no plasticity (30, 40, 20, 10) | BS-E1-1/GW-1-13.5 | 12.8 | |
| 15 | | | | | |
| | | **SANDY CLAY, trace SILT (CH)**<br>Orange brown, soft, wet, fine to medium grained subangular sand, well graded, medium plasticity (0, 30, 5, 65) | | 8.1 | |
| | | at 17 ft bgs - 15% gravel (15, 30, 5, 50) | | 12.4 | |
| | | at 19 ft bgs - stiff, moist, increase in plasticity, high stiff plasticity, decrease in gravel | | | |
| 20 | | | | 19.7 | |
| 25 | | | | | |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| **BS-E1-1/GW-1** | **Not Measured** | **Not Measured** |
| PROJECT NO./NAME | | LOCATION |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** |
| **J.O.** | **J.A.** | |

| Depth, feet | Graphic Log | Visual Description (continued) | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **SANDY CLAY, trace SILT (CH)** | | | |
| | | Orange brown, soft, wet, fine to medium grained subangular sand, well graded, medium plasticity (0, 30, 5, 65) *(continued)* | | | |
| | | at 25 ft bgs - color changes to orange brown with green/gray mottling | | | |
| | | at 29 ft bgs - increase in moisture, slight increase in fine sand | | | |
| 30 | | | | | Boring terminated at 30 ft bgs 30 |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| **BS-F1-1** | **Not Measured** | **Not Measured** | | |
| PROJECT NO./NAME | | LOCATION | | |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** | | |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** | | |
| **J.O.** | **J.A.** | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| **Cascade Drilling** | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/28/24-5/28/24** |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SANDY CLAY, few SILT, trace GRAVEL (CL)** Light brown, soft, dry, fine to medium grained, subangular sand and gravel, well graded, low to medium plasticity (5, 30, 10, 55) | BS-F1-1-1.0 | 3.6 | |
| | | **SAND, few GRAVEL, SILT and CLAY (SW)** Black, loose, dry, fine to medium grained, subangular sand and gravel, well graded, low plasticity (10, 70, 10, 10) | BS-F1-1-2.0 | 6.6 | |
| | | **SANDY CLAY, little GRAVEL, few SILT (CH)** Dark brown, soft, dry, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (5, 30, 10, 55) | BS-F1-1-3.0 | 3.4 | |
| | | | BS-F1-1-4.0 | 0.5 | |
| 5 | | | BS-F1-1-5.0 | 1.2 | Boring terminated at 5 ft bgs |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| **BS-G1-1** | **Not Measured** | **Not Measured** | | |
| PROJECT NO./NAME | | LOCATION | | |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** | | |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** | | |
| **J.O.** | **J.A.** | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| **Cascade Drilling** | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/29/24-5/29/24** |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND (SW)** Orange red, loose, dry, fine to coarse grained, subangular sand and gravel, well graded Layer of large pieces of black porous volcanic rock, with gold colored specs in pores/copper stainings, pieces of black glass spread throughout | BS-G1-1-1.0 | 8.6 | |
| | | | BS-G1-1-2.0 | 7.6 | |
| | | | BS-G1-1-3.0 | 12.5 | |
| | | | BS-G1-1-4.0 | 8.4 | |
| 5 | | **SANDY CLAY, few SILT (CH)** Black, soft, dry, fine to medium grained, subangular sand, well graded, medium plasticity (0, 30, 10, 60) | BS-G1-1-5.0 | 10.4 | Boring terminated at 5 ft bgs |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| **BS-I1-1** | **Not Measured** | **Not Measured** | | |
| PROJECT NO./NAME | | LOCATION | | |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** | | |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** | | |
| **J.O.** | **D.B** | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| **Cascade Drilling** | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/30/24-5/30/24** |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few SILT, trace CLAY (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 60, 10, 5) | BS-I1-1-1.0 | 5.5 | |
| | | | BS-I1-1-2.0 | 9.2 | |
| | | **SANDY CLAY, few SILT (CL)** Dark brown, soft, dry, fine grained, low plasticity, no odor (0, 30, 10, 60) | BS-I1-1-3.0 | 3.8 | |
| | | **CLAY, little SILT (CH)** Dark brown/black, medium stiff to stiff, dry, medium plasticity, no odor (0, 0, 20, 80) | BS-I1-1-4.0 | 3.0 | |
| 5 | | | BS-I1-1-5.0 | 4.5 | Boring terminated at 5 ft bgs |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| **BS-I2-1** | **Not Measured** | **Not Measured** | | |
| PROJECT NO./NAME | | LOCATION | | |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** | | |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** | | |
| **J.O.** | **D.B** | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| **Cascade Drilling** | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/30/24-5/30/24** |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | |
| | | **GRAVELY SAND, few SILT, trace CLAY (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 60, 10, 5) | BS-I2-1-1.0 | 1.4 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **SANDY CLAY, few SILT (CL)** Brown, soft, dry, low plasticity, no odor (0, 25, 10, 65) | BS-I2-1-2.0 | 16.5 | bgs = below ground surface. Density estimates not intended for geotechnical purposes. |
| | | **CLAY, little SILT (CH)** Dark black, medium stiff, dry, medium plasticity, slight odor (0, 0, 15, 85) | BS-I2-1-3.0 | 1.2 | ft bgs = feet below ground surface. |
| | | | BS-I2-1-4.0 | 1.1 | |
| 5 | | | BS-I2-1-5.0 | 1.2 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| **BS-I3-1** | **Not Measured** | **Not Measured** | | |
| PROJECT NO./NAME | | LOCATION | | |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** | | |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** | | |
| **J.O.** | **J.A.** | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| **Cascade Drilling** | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/30/24-5/30/24** |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, little GRAVEL, few SILT (SW-SC)** Brown, dense, dry, fine to medium grained, subangular sand and gravel, well graded, non-plastic (20, 40, 10, 20) | BS-I3-1-1.0 | 0.6 | |
| | | **SANDY CLAY, few SILT, trace GRAVEL (CL)** Brown, soft, dry, fine to medium grained, subangular sand and gravel, well graded, low plasticity (5, 35, 10, 50) | BS-I3-1-2.0 | 0.6 | |
| | | **SAND, little GRAVEL, few SILT (SW-SC)** Brown, dense, dry, fine to medium grained, subangular sand and gravel, well graded, non-plastic (20, 40, 10, 20) | BS-I3-1-3.0 | 0.7 | |
| | | **SANDY CLAY, few SILT (CL)** Brown, stiff, moist, fine to medium grained, subangular sand and gravel, well graded, low plasticity (0, 30, 10, 60) at 4 ft bgs - becomes soft at 4.5 ft bgs - color changes to dark brown | BS-I3-1-4.0 | 0.6 | |
| 5 | | | BS-I3-1-5.0 | 0.4 | Boring terminated at 5 ft bgs 5 |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/BS-A2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/20/24-5/20/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | |
| | | **CLAYEY SAND, little GRAVEL, few SILT (SC)** Brown, medium dense, dry, fine to coarse subangular sand and gravel, well graded, low plasticity (15, 45, 10, 30) | G/BS-A2-1-1.0 | 2.1 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | | G/BS-A2-1-2.0 | 1.3 | |
| | | **SANDY CLAY, little SILT, few GRAVEL (CL)** Dark brown, medium stiff, dry, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (10, 25, 10, 55) | G/BS-A2-1-3.0 | 1.2 | |
| | | | G/BS-A2-1-4.0 | 1.4 | |
| 5 | | at 4.2 ft bgs - color change to orange brown, soft<br>at 4.7 ft bgs - color change to dark brown with orange mottling | G/BS-A2-1-5.0 | 1.4 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/BS-A3-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/20/24-5/20/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (30, 40, 05, 25) | G/BS-A3-1-1.0 | 4.3 | bgs = below ground surface. |
| | | at 0.7 ft bgs - color change to brown | G/BS-A3-1-2.0 | 4.1 | Density estimates not intended for geotechnical purposes. |
| | | **SANDY CLAY, few GRAVEL and SILT (CL)** Dark brown/gray, soft, dry, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (10, 30, 10, 50) | G/BS-A3-1-3.0 | 3.1 | ft bgs = feet below ground surface. |
| | | at 3.5 ft bgs - becomes very soft | G/BS-A3-1-4.0 | 3.6 | |
| 5 | | at 4.5 ft bgs - color change to dark gray with green mottling | | | Boring terminated at 5 ft bgs |

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Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| G/BS-D4-1 | Not Measured | Not Measured |

| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY: J.O. / LOGGED BY: J.A. | OAKLAND, CALIFORNIA |
| DRILLING CONTRACTOR/DRILLER: Cascade Drilling | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/28/24-5/28/24 |

| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL |
|---|---|---|
| Not Measured | Not Encountered | Neat Cement Grout |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **SAND, little GRAVEL and SILT (SW-SM)** Brown, loose, dry, fine to medium grained, subangular sand and gravel, well graded (20, 60, 20, 0) | G/BS-D4-1-1.0 | 2.3 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | at 1 ft bgs - brick fragments, color is orange and red | | | bgs = below ground surface. |
| | | at 1.5 ft bgs - large white pieces of gravel and cement | G/BS-D4-1-2.0 | 2.7 | Density estimates not intended for geotechnical purposes. |
| | | **CLAYEY SAND, little GRAVEL and SILT (SC)** Dark brown, dense, dry, fine to medium grained, subangular sand and gravel, well graded, low plasticity (15, 40, 15, 30) | G/BS-D4-1-3.0 | 2.0 | ft bgs = feet below ground surface. |
| | | **SANDY CLAY, few GRAVEL and SILT (CH)** Dark brown, soft, dry, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (10, 30, 10, 50) | G/BS-D4-1-4.0 | 2.4 | |
| 5 | | **SAND, little GRAVEL and CLAY, few SILT (SW-SM)** Dark brown, soft, wet, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (20, 50, 10, 20) | G/BS-D4-1-5.0 | 2.3 | Boring terminated at 5 ft bgs |

NOTES:

ROUX
5150 E. Pacific Coast Highway, Suite 450
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Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/BS-F4-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, little GRAVEL, few SILT and CLAY (SW)** Dark brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (20, 60, 10, 10) | G/BS-F4-1-1.0 | 4.7 | |
| | | **SANDY CLAY, few SILT (CH)** Brown, soft, dry, fine to medium grained, subangular sand, well graded, plasticity (0, 30, 10, 60) | G/BS-F4-1-2.0 | 4.8 | |
| | | | G/BS-F4-1-3.0 | 5.6 | |
| | | **SAND, little SILT, few CLAY (SW-SM)** Brown, dense, moist, fine to medium grained, subangular sand, well graded, no plasticity (0, 70, 20, 10) | G/BS-F4-1-4.0 | 3.9 | |
| 5 | | **CLAY, few SAND and SILT (CH)** Black, very stiff, dry, fine to medium grained, subangular sand, well graded, high plasticity (0, 10, 10, 80) | G/BS-F4-1-5.0 | 5.1 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/BS-H1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **CLAY, little SAND, few GRAVEL and SILT (CH)** Dark gray, stiff, moist, dry, fine to medium grained, subangular sand and gravel, well graded, high-plasticity (10, 20, 10, 60) at 1 ft bgs - lense of large pieces of gravel | G/BS-H1-1-1.0 | 5.7 | |
| | | | G/BS-H1-1-2.0 | 333.7 | |
| | | **CLAYEY SAND, few GRAVEL and SILT (SC)** Gray brown, dense, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (10, 50, 10, 30) at 2 ft bgs - gasoline odor | G/BS-H1-1-3.0 | 78.3 | |
| | | | G/BS-H1-1-4.0 | 15.3 | |
| 5 | | **CLAY, little GRAVEL, few SILT (CH)** Black, stiff, dry, fine to medium grained, subangular sand and gravel, well graded, high plasticity (0, 20, 10, 70) | G/BS-H1-1-5.0 | 5.4 | Boring terminated at 5 ft bgs |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-B1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/21/24-5/21/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **SAND, little CLAY and GRAVEL, few SILT (SW)** Brown, loose, dry, fine to medium grained, subangular sand and gravel, well graded, low plasticity (15, 50, 10, 25) | G/UC-B1-1-1.0 | 5.0 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, little CLAY, few SILT and GRAVEL (SW-SM)** Orange brown, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (10, 65, 10, 15) | G/UC-B1-1-2.0 | 2.5 | |
| | | at 2.5 ft bgs - few inches of yellow material, transparent-ish, rock/sand like from 2.7 to 3.5 ft bgs - glass content | G/UC-B1-1-3.0 | 3.2 | |
| | | **SANDY CLAY, little SILT (CL)** Black, moist, fine to coarse grained, subangular sand, well graded, low to medium plasticity (0, 40, 15, 45) | G/UC-B1-1-4.0 | 3.2 | |
| 5 | | | G/UC-B1-1-5.0 | 6.5 | 5 |
| | | from 5.2 to 5.4 ft bgs - glass content | | | |
| | | **CLAY, little SAND, few SILT (CH)** Black, stiff, dry, fine to medium grained, subangular sand, poorly graded, medium plasticity (0, 20, 10, 70) | | | |
| | | | G/UC-B1-1-8.0 | 3.5 | |
| 10 | | | G/UC-B1-1-10.0 | 4.6 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGR\WORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-B4-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/23/24-5/23/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Light brown, loose, dry, fine grained, subangular gravel and sand, non-plastic (25, 50, 5, 20) | G/UC-B4-1-1.0 | 14.8 | |
| | | **Sand, little SILT (SW-SM)** Dark black, loose, dry, very fine to fine grained, poorly graded (0, 80, 20, 0) | G/UC-B4-1-2.0 | | |
| | | | G/UC-B4-1-3.0 | 10.5 | |
| | | | G/UC-B4-1-4.0 | 14.4 | |
| 5 | | **CLAY, little SILT, few SAND (CL)** Dark brown, medium stiff, dry, very fine grained, non-plastic to low plasticity (0, 10, 25, 65) | G/UC-B4-1-5.0 | 11.2 | 5 |
| | | **CLAY, little SILT (CH)** Dark black, medium stiff, dry, low to medium plasticity (0, 0, 15, 85) | | | |
| | | | G/UC-B4-1-8.0 | 6.1 | |
| 10 | | | G/UC-B4-1-10.0 | 5.3 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-C1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/21/24-5/21/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular gravel and sand, low plasticity (25, 50, 5, 20) | G/UC-C1-1-1.0 | 5.7 | |
| | | **SANDY CLAY, trace GRAVEL and SILT (CL)** Light gray/brown, medium stiff, dry, well graded, low plasticity (5, 20, 5, 70) | G/UC-C1-1-2.0 | 8.6 | |
| | | | G/UC-C1-1-3.0 | 6.4 | |
| | | **CLAYEY SAND, trace SILT (SC)** Brown, medium stiff, dry, fine to medium grained, well graded, low plasticity (0, 60, 5, 35) | G/UC-C1-1-4.0 | 7.6 | |
| 5 | | **CLAY, little SILT, trace SAND (CH)** Dark brown/black, medium stiff, dry, low plasticity (0, 5, 25, 70) | G/UC-C1-1-5.0 | 2.0 | 5 |
| | | **CLAY, little SILT (CH)** Dark black, stiff to very stiff, dry, medium plasticity (0, 0, 20, 80) | | | |
| | | | G/UC-C1-1-8.0 | 2.4 | |
| | | **CLAY, little SAND, few SILT (CL)** Brown/light brown, medium to very stiff, moist, fine grained, low plasticity (0, 15, 10, 75) | | 3.1 | |
| 10 | | | G/UC-C1-1-10.0 | 5.8 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-C4-1/P-10 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/22/24-5/22/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, some SILT, trace CLAY (SW-SC)** Dark black, loose, dry, fine to medium grained, well graded (0, 65, 30, 5) | G/UC-C4-1/P-10-1.0 | 1.5 | |
| | | | G/UC-C4-1/P-10-2.0 | 3.1 | |
| | | | G/UC-C4-1/P-10-3.0 | 3.0 | |
| | | **CONCRETE** | | | |
| | | **CLAY, little SILT (CL)** Dark brown/black, medium stiff to stiff, dry, low plasticity (0, 0, 25, 75) | G/UC-C4-1/P-10-4.0 | 3.1 | |
| 5 | | | G/UC-C4-1/P-10-5.0 | 5.4 | 5 |
| | GROUND WATER LEVEL (Static at 5.55 ft bgs) | | | | |
| | | **CLAY, little SILT (CH)** Brown, medium stiff, dry, medium to high plasticity (0, 0, 15, 85) | G/UC-C4-1/P-10-8.0 | 3.5 | |
| 10 | | | G/UC-C4-1/P-10-10.0 | 5.1 | 10 |
| | | **CLAY, few SILT (CH)** Brown, stiff to very stiff, dry, medium to high plasticity (0, 0, 10, 90) | | | |
| | | | | 5 | |
| | | **CLAY, little SILT (CH)** Dark black, stiff, dry, medium plasticity (0, 0, 20, 80) | | | |
| 15 | | | | | 15 |
| | | | | 8.2 | |
| | | **CLAY, few SILT, trace SAND (CL)** Brown, medium stiff, dry, medium plasticity (0, 5, 10, 85) at 16.5 ft bgs - becomes slightly moist | | | |
| | | | | 6.2 | |
| | | **CLAYEY SAND (SC)** Light brown, medium dense, wet, fine to coarse grained, subangular gravel and sand (0, 70, 0, 30) | G/UC-C4-1/P-10-19.0 | 6.5 | |
| 20 | | | | 6.1 | Boring terminated at 20 ft bgs 20 |

NOTES:

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Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-H4-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/30/24-5/30/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, little GRAVEL and CLAY, few SILT (SW-SC)** Orange brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (25, 45, 10, 20) | G/UC-H4-1-1.0 | 1.3 | |
| | | | G/UC-H4-1-2.0 | 0.4 | |
| | | **CLAY, little SAND and GRAVEL (CL)** Orange brown, stiff (hard rocks), fine to coarse grained, subangular sand and gravel, well graded, low plasticity (25, 25, 10, 40) at 2.5 ft bgs - pieces of green rock content, moist | G/UC-H4-1-3.0 | 1.0 | |
| | | | G/UC-H4-1-4.0 | 1.3 | |
| | | at 4.0 ft bgs - becomes soft, wet | G/UC-H4-1-4.75 | 0.5 | Boring terminated at 4.75 ft bgs |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-I1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/30/24-5/30/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few SILT, trace CLAY (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 60, 10, 5) | G/UC-I1-1-1.0 | 1.8 | |
| | | **SANDY CLAY, few SILT (CL)** Brown, soft to medium stiff, dry, low plasticity, no odor (0, 25, 10, 65) | G/UC-I1-1-2.0 | 3.7 | |
| | | | G/UC-I1-1-3.0 | 3.5 | |
| | | **CLAY, little SILT (CH)** Dark brown/black, medium stiff to stiff, dry, medium plasticity, no odor (0, 0, 20, 80) | G/UC-I1-1-4.0 | 4.8 | |
| 5 | | | G/UC-I1-1-5.0 | 4.8 | 5 |
| | | **CLAY, little SILT (CH)** Dark black, stiff, dry, medium plasticity, no odor (0, 0, 15, 85) | G/UC-I1-1-8.0 | 4.7 | |
| | | **CLAY, little SILT and SAND (CL)** Brown, medium stiff, dry, fine to coarse grained, medium plasticity, no odor (0, 20, 15, 65) | | | |
| 10 | | | G/UC-I1-1-10.0 | 3.3 | Boring terminated at 10 ft bgs 10 |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-I2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/30/24-5/30/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few SILT, trace CLAY (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 69, 10, 5) | G/UC-I2-1-1.0 | 6.1 | |
| | | **SANDY CLAY, few SILT (CL)** Brown, soft, dry, low plasticity, no odor (0, 25, 10, 65) | G/UC-I2-1-2.0 | 6.6 | |
| | | **CLAY, little SILT (CH)** Dark black, stiff, dry, medium plasticity, no odor (0, 0, 15, 85) | G/UC-I2-1-3.0 | 6.1 | |
| | | | G/UC-I2-1-4.0 | 5.1 | |
| 5 | | | G/UC-I2-1-5.0 | 6.7 | 5 |
| | | | G/UC-I2-1-8.0 | 6.3 | |
| | | **CLAY, little SILT (CH)** Dark gray, medium stiff to stiff, dry, medium to high plasticity, no odor (0, 0, 20, 80) | | | |
| 10 | | | G/UC-I2-1-10.0 | 7.4 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

ROUX
5150 E. Pacific Coast Highway, Suite 450
Long Beach, California 90804
Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-I3-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/30/24-5/30/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few SILT, trace CLAY (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 60, 10, 5) | G/UC-I3-1-1.0 | 1.1 | |
| | | **SANDY CLAY, few SILT (CL)** Brown/gray, soft, dry, low plasticity, no odor (0, 25, 10, 65) | G/UC-I3-1-2.0 | 1.8 | |
| | | **CLAY, little SILT (CH)** Dark black, stiff, dry, medium plasticity, no odor (0, 0, 15, 85) | G/UC-I3-1-3.0 | | |
| | | | G/UC-I3-1-4.0 | 2.1 | |
| 5 | | **CLAYEY SAND, trace SILT (SC)** Light gray, loose to medium dense, moist, fine grained, non-plastic, no odor (0, 60, 5, 35) | G/UC-I3-1-5.0 | 2.3 | 5 |
| | | **CLAY, little SILT (CH)** Dark black, medium stiff to stiff, dry, medium plasticity, no odor (0, 0, 15, 85) | | | |
| | | | G/UC-I3-1-8.0 | 0.7 | |
| 10 | | | G/UC-I3-1-10.0 | 1.0 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGR\WORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G/UC-I4-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/30/24-5/30/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, little GRAVEL and CLAY, few SILT (SW-SC)** Brown, dense, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (25, 40, 5, 20) | G/UC-I4-1-1.0 | 0.6 | |
| | | at 1.5 ft bgs - color changes to brown, moist, less gravel. Some black porous volcanic rock and glass throught | G/UC-I4-1-2.0 | 0.7 | |
| | | | G/UC-I4-1-3.0 | 0.9 | |
| | | **SANDY CLAY, few SILT, trace GRAVEL (CL)** Dark brown, soft, moist, fine to medium grained, subangular sand and gravel, well graded, low to medium plasticity (5, 35, 10, 50) | G/UC-I4-1-4.0 | 0.4 | |
| 5 | | **SAND, little SILT and CLAY (SW-SM)** Brown, dense, wet, fine to medium grained, subangular sand and gravel, well graded, non-plastic (0, 60, 20, 20) | G/UC-I4-1-5.0 | 0.7 | 5 |
| | | | G/UC-I4-1-8.0 | 0.2 | |
| | | **CLAY, little SAND and SILT, trace GRAVEL (CH)** Orange brown, soft, moist, fine to medium grained, subangular sand and gravel, well graded, medium to high plasticity (5, 20, 20, 50) | | | |
| 10 | | | G/UC-I4-1-10.0 | 0.2 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-A1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/20/24-5/20/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **CLAYEY SAND, little GRAVEL and few SILT (SC)** Brown, medium dense, moist, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (15, 45, 10, 30) | G-A1-1-1.0 | 1.5 | |
| | | at 0.7 ft bgs - becomes dry | G-A1-1-2.0 | 0.5 | |
| | | at 1.7 ft bgs - color changes to orange brown | | | |
| | | at 2.5 ft bgs - increased gravel and fine sand content | G-A1-1-3.0 | 2.0 | |
| | | at 3.0 ft bgs - increase in sand content | | | |
| | | | G-A1-1-4.0 | 0.7 | |
| 5 | | **SANDY CLAY, little SILT (CL)** Dark brown, medium stiff, dry, fine to medium grained, subangular sand, well graded, medium plasticity (0, 25, 20, 55) | G-A1-1-5.0 | 0.7 | Boring terminated at 5 ft bgs |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-B2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/21/24-5/21/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, little CLAY, GRAVEL and SILT (SW)** Dark brown, loose, dry, fine to medium grained, subangular sand and gravel, well graded, non-plastic (15, 50, 15, 20) | G-B2-1-1.0 | 5.5 | |
| | | at 1.5 ft bgs - medium dense, feels more compacted, fine to coarse grained | G-B2-1-2.0 | 3.6 | |
| | | | G-B2-1-3.0 | 2.0 | |
| | | | G-B2-1-4.0 | | |
| 5 | | **CLAY, little SAND, few SILT (CH)** Black, stiff, dry, fine to medium grained, subangular sand, medium plasticity (0, 20, 10, 70) | G-B2-1-5.0 | 4.3 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-B3-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/21/24-5/21/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, trace SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular gravel, low plasticity (25, 50, 5, 20) | G-B3-1-1.0 | 10.9 | |
| | | **CLAY, little SILT, trace SAND (CL)** Dark brown/black, soft to medium stiff, dry, low plasticity (0, 5, 15, 80) | G-B3-1-2.0 | 16 | |
| | | **CLAYEY SAND, trace SILT (SC)** Light brown, loose to medium dense, dry, fine to medium grained, non-plastic (0, 65, 5, 30) | G-B3-1-3.0 | 3.1 | |
| | | **CLAY, little SILT (CL)** Dark brown/black, medium stiff, dry, low plasticity (0, 0, 20, 80) | G-B3-1-4.0 | 8.2 | |
| 5 | | at 4.2 ft bgs - 4 inches CONCRETE | G-B3-1-5.0 | 16.5 | Boring terminated at 5 ft bgs |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-C2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/21/24-5/21/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, trace SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, low plasticity (30, 45, 5, 25) | G-C2-1-1.0 | 0.3 | |
| | | **CLAYEY SAND, trace SILT, trace GRAVEL (SC)** Brown/dark brown, soft, dry, fine to medium grained, low plasticity (5, 50, 5, 40) | G-C2-1-2.0 | 0.0 | |
| | | | G-C2-1-3.0 | 3.1 | |
| | | **CLAY, little SILT, trace SAND (CL)** Dark brown/black, soft to medium stiff, dry, low plasticity (0, 5, 15, 80) | G-C2-1-4.0 | 3.7 | |
| 5 | | | G-C2-1-5.0 | 4.1 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-C3-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/21/24-5/21/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, trace SILT (SW)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, low plasticity (25, 50, 5, 20) | G-C3-1-1.0 | 8.0 | |
| | | **CLAYEY SAND, trace SILT (SC)** Light brown/red, loose, dry, fine to medium grained, non-plastic (0, 65, 5, 30) | G-C3-1-2.0 | 6.7 | |
| | | | G-C3-1-3.0 | 10.8 | |
| | | **CLAY, little SILT, trace SAND (CL)** Dark brown/black, medium stiff, dry, low plasticity (2, 5, 25, 70) | G-C3-1-4.0 | 4.1 | |
| 5 | | | G-C3-1-5.0 | 8.1 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-D1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/24/24-5/24/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | |
| | | **GRAVELY SAND, few SILT and CLAY (SW)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (30, 50, 10, 10) | G-D1-1-1.0 | 0.7 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | | G-D1-1-2.0 | 5.7 | |
| | | from 2.2 to 4 ft bgs - gasoline odor | G-D1-1-3.0 | 8.2 | |
| | | **SANDY CLAY, little GRAVEL, trace SILT (CL)** Black, soft, dry, fine to medium grained, subangular sand and gravel, well graded, lost plasticity (15, 30 5, 50) | G-D1-1-4.0 | 4.3 | |
| 5 | | at 4.5 ft bgs - color changes to gray green, becomes moist | G-D1-1-5.0 | 5.4 | Boring terminated at 5 ft bgs |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-D2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/24/24-5/24/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SANDY CLAY, little GRAVEL, few SILT (CL)** Black, stiff, dry, fine to medium grained, subangular sand and gravel, well graded, low plasticity (20, 30, 10, 40) | G-D2-1-1.0 | 5.9 | |
| | | | G-D2-1-2.0 | 6.9 | |
| | | from surface to 2.5 ft bgs - gasoline odor | G-D2-1-3.0 | 7.7 | |
| | | **GRAVELY SAND, few CLAY and SILT (SW)** Black, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (30, 50, 10, 10) | G-D2-1-4.0 | 5.3 | |
| 5 | | **SAND, few CLAY and SILT (SP)** Black with white speckles, very loose, dry, fine to medium grained, subangular sand and gravel, poorly graded, non-plastic (0, 80, 10, 10) | G-D2-1-5.0 | 5.7 | Boring terminated at 5 ft bgs |
| | | **SANDY CLAY, little GRAVEL, few SILT (CL)** Black, stiff, dry, fine to medium grained, subangular sand and gravel, well graded, low plasticity (20, 30, 10, 40) | | | |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-D3-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/24/24-5/24/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **CLAYEY SAND, little GRAVEL and SILT (CL)** Brown, loose, dry, fine to medium grained sand and gravel, well graded, low plasticity (15, 40, 15, 30) | G-D3-1-1.0 | 2.1 | |
| | | at 1 ft bgs - color changes to green, gasoline odor, increase in sand | G-D3-1-2.0 | 6.9 | |
| | | **CLAY, few SAND and SILT (CH)** Black, very stiff, dry, fine to medium grained, subangular sand, well graded, high plasticity (0, 10, 10, 80) | G-D3-1-3.0 | 9.1 | |
| | | **GRAVELY SAND, few SILT and CLAY (SW)** Black, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (30, 50, 10, 10) | G-D3-1-4.0 | 8.7 | |
| 5 | | bottom 2 inches - fine to medium grained sand, no gravel | G-D3-1-5.0 | 6.9 | Boring terminated at 5 ft bgs |
| | | **CLAY, few SAND and SILT (CH)** Black, very stiff, dry, fine to medium grained, subangular sand and gravel, well graded, high plasticity (10, 10, 10, 70) | | | |
| | | **SAND, few SILT and CLAY (SP)** Black, loose, dry, fine to medium grained, subangular sand, well graded, non-plastic (0, 80, 10, 10) | | | |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| G-E1-1/GW-2 | Not Measured | Not Measured |

| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY: J.O. / LOGGED BY: J.A. | OAKLAND, CALIFORNIA |
| DRILLING CONTRACTOR/DRILLER: Cascade Drilling | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/22/24-5/22/24 |

| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL |
|---|---|---|
| Not Measured | Not Encountered | Neat Cement Grout |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, little to no plasticity (30, 40, 10, 20) | G-E1-1/GW-2-1.0 | 8.9 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | | G-E1-1/GW-2-2.0 | | |
| | | **SANDY CLAY (CL)** Black, stiff, dry, fine to medium grained, subangular sand, well graded, medium plasticity (0, 30, 0, 70) | | 7.5 | |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Dark brown, loose, dry, fine to coarse grained, subangular sand, well graded, little to no plasticity (35, 40, 10, 15) | G-E1-1/GW-2-4.0 | 7.1 | |
| | | | G-E1-1/GW-2-5.0 | 7.1 | |
| 5 | | | | | 5 |
| | | **SANDY CLAY, trace SILT (CH)** Black, very soft, dry, fine to medium grained, subangular sand, well graded, medium plasticity (0, 30, 5, 65) | | 3.0 | First encountered static water level: 8.74 ft bgs |
| | | | | 6.1 | Second encountered static water level: 14.05 ft bgs |
| | | at 9 ft bgs - increase in plasticity to medium-high | | | |
| 10 | | | | | 10 |
| | | | | 5.7 | |
| | | at 11 ft bgs - color changes to green gray | | | |
| | | at 11.5 ft bgs - becomes moist, decrease in plasticity | | | |
| | | | | 8.0 | |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Dark brown, loose, moist, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (30, 40, 10, 20) | G-E1-1/GW-2-13.5 | | |
| | | **SANDY CLAY, little SILT (CL)** Gray green, soft, moist, (wet first 2 inches), fine to medium grained, subangular sand, well graded, medium plasticity (0, 35, 20, 45) | | | |
| 15 | | | | | 15 |
| | | from 17 to 18 ft bgs - color changes to green gray with gray/brown mottling, becomes stiff with high plasticity | | | |
| | | at 18 ft bgs - lense of coarse sand and gravel | | | |
| | | at 18.5 ft bgs - wet interval of 1 inch | | | |
| 20 | | | | | 20 |
| 25 | | | | | 25 |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| G-E1-1/GW-2 | Not Measured | Not Measured |
| PROJECT NO./NAME | | LOCATION |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA |
| J.O. | J.A. | |

| Depth, feet | Graphic Log | Visual Description (continued) | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| 30 | | **SANDY CLAY, little SILT (CL)** Gray green, soft, moist, (wet first 2 inches), fine to medium grained, subangular sand, well graded, medium plasticity (0, 35, 20, 45) *(continued)* at 25 ft bgs - color changes to orange brown with green/gray mottling | | | Boring terminated at 30 ft bgs 30 |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-E2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/28/24-5/28/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **CLAYEY SAND, little GRAVEL, few SILT (SC)** Gray, dense, moist, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (20, 40, 10, 30) from 0.7 to 1.2 ft bgs - layer of large gravel, possible concrete | G-E2-1-1.0 | 1.8 | bgs = below ground surface. |
| | | | G-E2-1-2.0 | 2.3 | Density estimates not intended for geotechnical purposes. |
| | | **SANDY CLAY, few SILT, trace gravel (CL)** Dark gray, soft, dry, fine to medium grained, subangular sand and gravel, well graded, low to medium plasticity (5, 30, 10, 55) | G-E2-1-3.0 | 2.9 | ft bgs = feet below ground surface. |
| | | | G-E2-1-4.0 | 2.7 | |
| 5 | | | G-E2-1-5.0 | 4.8 | Boring terminated at 5 ft bgs |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-E3-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/28/24-5/28/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, few GRAVEL, SILT and CLAY (SW)** Black, loose, dry, fine to medium grained, subangular sand and gravel, well graded, low plasticity, gasoline odor and yellow spots (10, 70, 10, 10) | G-E3-1-1.0 | 5.8 | |
| | | **CLAY, little SAND, few GRAVEL, trace SILT (CH)** Black, stiff, dry, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (10, 25, 5, 70) | G-E3-1-2.0 | 3.9 | |
| | | | G-E3-1-3.0 | 2.8 | |
| | | | G-E3-1-4.0 | 1.8 | |
| 5 | | **GRAVELY SAND, few SILT and CLAY (SW)** Brown, loose, dry, fine to medium grained, subangular sand and gravel, well graded, non-plastic, large pieces of gravel and rusted nail (30, 50, 10, 10) | G-E3-1-5.0 | 2.8 | Boring terminated at 5 ft bgs |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-F1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/28/24-5/28/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | |
| | | **SANDY CLAY, little GRAVEL, few SILT (CH)** Dark brown, soft, moist, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (15, 35, 10, 40) | G-F1-1-1.0 | 2.5 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | at 1.5 ft bgs - becomes wet | G-F1-1-2.0 | 7.7 | bgs = below ground surface. Density estimates not intended for geotechnical purposes. |
| | | at 2 ft bgs - decrease in sand and gravel content, increase in plasticity (5, 30, 10, 55) | G-F1-1-3.0 | 7.2 | ft bgs = feet below ground surface. |
| | | | G-F1-1-4.0 | 3.9 | |
| 5 | | | G-F1-1-5.0 | 5.0 | Boring terminated at 5 ft bgs |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-F2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | |
| | | **SAND, few SILT and CLAY (SW)** Dark gray, loose, dry, fine to medium grained, subangular sand, well graded, low plasticity (0, 80, 10, 10) | G-F2-1-1.0 | 6.2 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | at 1.5 ft bgs - color changes to brown, fine to coarse grained, dense, moist | G-F2-1-2.0 | 8.0 | bgs = below ground surface. Density estimates not intended for geotechnical purposes. |
| | | at 1.7 ft bgs - color changes to black | | | |
| | | at 2.0 ft bgs - gasoline odor | G-F2-1-3.0 | 4.2 | ft bgs = feet below ground surface. |
| | | **CLAY, little SAND, few SILT (CH)** Black, soft, moist, fine to medium grained, subangular sand, well graded, medium plasticity, slight odor (0, 20, 10, 70) | G-F2-1-4.0 | 6.9 | |
| 5 | | at 4.5 ft bgs - becomes stiff, medium to high plasticity | G-F2-1-5.0 | 6.7 | Boring terminated at 5 ft bgs |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-F3-1/P-03 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/23/24-5/23/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. Boring terminated at 4.5 ft bgs |
| | | **SAND, little SILT (SW-SM)** | G-F3-1/P-03-1.0 | 26.7 | |
| | | Dark black, loose, dry, very fine to fine grained, poorly graded (0, 80, 20, 0) | G-F3-1/P-03-2.0 | 16.7 | |
| | | from 1 to 2 ft bgs - slight odor | | | |
| | | | G-F3-1/P-03-3.0 | 29.6 | |
| | | | G-F3-1/P-03-4.0 | 27.6 | |
| | | from 4 to 4.5 ft bgs - strong odor | G-F3-1/P-03-5.0 | 27.2 | |
| | | at 4.2 ft bgs - becomes moist | | | |

NOTES:
Refusal at 4.5 ft bgs. Attempted 2 step outs with refusal at 4.5 ft bgs

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-G1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | |
| | | **CLAY, little SAND, few GRAVEL and SILT (CH)**<br>Brown, stiff, dry, fine to medium grained, subangular sand and gravel, well graded, medium to high plasticity (10, 25, 10, 55) | G-G1-1-1.0 | 5.1 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay).<br>bgs = below ground surface.<br>Density estimates not intended for geotechnical purposes.<br>ft bgs = feet below ground surface. |
| | | at 2.0 ft bgs - large gravel, black, porous volcanic rock or coal, pieces of black glass | G-G1-1-2.0 | 8.5 | |
| | | | G-G1-1-3.0 | 8.8 | |
| | | **SANDY CLAY, few SILT, trace GRAVEL (CL)**<br>Brown, soft, moist, fine to medium grained, subangular sand and gravel, well graded, low plasticity (5, 35, 10, 55) | G-G1-1-4.0 | 22.8 | |
| | | at 3.5 ft bgs - becomes wet | | | |
| 5 | | at 4.0 ft bgs - color changes to black, strong odor | G-G1-1-5.0 | 33.7 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-G2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Dark brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (30, 35, 10, 25) | G-G2-1-1.0 | 5.5 | |
| | | **SANDY CLAY, few SILT (CH)** Black, stiff, dry, fine to medium grained, subangular sand, well graded, medium to high plasticity (0, 30, 10, 60) | G-G2-1-2.0 | 9.4 | |
| | | at 1.5 ft bgs - light gasoline odor | G-G2-1-3.0 | 8.3 | |
| | | at 2.5 ft bgs - color changes to brown, saturated, coarse sand | | | |
| | | **CLAYEY SAND, little SAND, few SILT (SC)** Brown, dense, saturated, fine to coarse grained, subangular sand and gravel, well graded, low plasticity, stronger gasoline odor (15, 45, 10, 30) | G-G2-1-4.0 | 6.3 | |
| 5 | | **~~SANDY CLAY, few GRAVEL and SILT (CL)~~** Black, stiff, moist, fine to medium grained, subangular and gravel, low to medium plasticity (10, 25, 10, 55) | G-G2-1-5.0 | 7.2 | Boring terminated at 5 ft bgs |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-G3-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE**<br>From 0.5 to 0.7 ft bgs - brown | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay).<br>bgs = below ground surface.<br>Density estimates not intended for geotechnical purposes.<br>ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)**<br>Black, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (30, 35, 10, 25) | G-G3-1-1.0 | 5.5 | |
| | | **SANDY CLAY, few SILT (CL)**<br>Black, soft, dry, fine to medium grained, subangular sand, well graded, low plasticity, gasoline odor (0, 30, 10, 60) | G-G3-1-2.0 | 5.1 | |
| | | **SAND, little CLAY and SILT (CL)**<br>Dark gray, dense, moist, subangular sand, well graded, non-plastic (0, 70, 15, 15) | G-G3-1-3.0 | 3.2 | |
| 5 | | **SANDY CLAY, few SILT (CL)**<br>Dark gray, soft, moist, fine to medium grained, subangular sand, well graded, low plasticity (0, 30, 10, 60) | G-G3-1-4.0 | 4.8 | |
| | | | G-G3-1-5.0 | 5.0 | Boring terminated at 5 ft bgs |

NOTES:

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**G-G4-1/P-12** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**D.B.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/23/24-5/23/24** |
| LAND SURFACE ELEVATION<br>**Not Measured** | DEPTH TO WATER<br>**Not Encountered** | BACKFILL<br>**Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)**<br>Brown, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 50, 5, 20) | G-G4-1/P-12-1.0 | 14.3 | bgs = below ground surface. |
| | | **SAND, little SILT(SW-SM)**<br>Dark black, loose, dry, very fine to fine grained, poorly graded (0, 80, 20, 0) | G-G4-1/P-12-2.0 | 11.2 | Density estimates not intended for geotechnical purposes. |
| | | | G-G4-1/P-12-3.0 | 12.1 | ft bgs = feet below ground surface. |
| | | **CLAY, little SILT, trace SAND (CL)**<br>Dark brown, medium stiff, dry, low plasticity (0, 5, 20, 75) | G-G4-1/P-12-4.0 | 9.4 | |
| 5 | ▽ GROUND WATER LEVEL (Static at 4.79 ft bgs) | | G-G4-1/P-12-5.0 | 7.8 | 5 |
| | | **CLAYEY SAND (SC)**<br>Light brown, soft to medium dense, wet, fine grained, poorly graded, non-plastic (0, 80, 0, 20) | | | |
| | | **CLAY, little SILT, trace SAND (CH)**<br>Brown/dark brown, medium stiff, dry, medium plasticity (0, 5, 15, 80) | | | |
| 10 | | | | | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-H2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/30/24-5/30/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | G-H2-1-1.0 | 1.7 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **CLAYEY SAND, little GRAVEL, trace SILT (SC)** Dark brown, dense, dry, fine to medium grained, subangular sand and gravel, well graded, low platicity (15, 50, 5, 30) at 2 ft bgs - color changes to brown, moist, fine to coarse grained | G-H2-1-2.0 | 0.9 | bgs = below ground surface. Density estimates not intended for geotechnical purposes. |
| | | | G-H2-1-3.0 | 0.6 | ft bgs = feet below ground surface. |
| | | **GRAVELY SAND (SW)** Brown, loose, moist, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (35, 55, 10, 10) | G-H2-1-4.0 | 0.4 | |
| 5 | | **SANDY CLAY (CL)** Dark gray, soft, moist, fine to medium grained, subangular sand and gravel, well graded, low to medium plasticity (0, 20, 10, 70) | G-H2-1-5.0 | 0.4 | Boring terminated at 5 ft bgs 5 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| G-H3-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/30/24-5/30/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | G-H3-1-1.0 | 0.6 | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **SAND, little GRAVEL and CLAY, few SILT (SW-SC)** Brown, dense, dry, fine to medium grained, subangular sand and gravel, well graded, non-plastic (20, 50, 10, 20) | G-H3-1-2.0 | 1.8 | bgs = below ground surface. Density estimates not intended for geotechnical purposes. |
| | | at 1.5 ft bgs - color changes to dark brown, moist | G-H3-1-3.0 | 0.6 | ft bgs = feet below ground surface. |
| | | **SANDY CLAY, few GRAVEL and SILT (CL)** Dark brown, soft, moist, fine to medium grained, subangular sand and gravel, low plasticity (10, 30, 10, 50) | G-H3-1-4.0 | 2.9 | |
| | | at 3.5 ft bgs - becomes wet | | | |
| 5 | | **SAND, little SILT and CLAY (SW-SM)** Gray, dense, wet, fine to medium grained, subangular sand and gravel, well graded, non-plastic (0, 60, 20, 20) | G-H3-1-5.0 | 4.2 | Boring terminated at 5 ft bgs |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGR\WORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| GW-3 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/22/24-5/22/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 50, 5, 20) | | | bgs = below ground surface. |
| | | **CLAY, little SAND and SILT (CL)** Dark black, medium stiff, dry, fine grained, low plasticity (0, 15, 20, 65) | | 6.2 | Density estimates not intended for geotechnical purposes. |
| | | | | | ft bgs = feet below ground surface. |
| 5 | | | | | 5 |
| | | | | 6.5 | Add: First encountered static water level: 8.22 ft bgs |
| | | **CLAY, few SILT (CH)** Dark black, stiff to very stiff, dry, medium plasticity (0, 0, 20, 80) | | | Second encountered static water level: 8.25 ft bgs |
| | | | | 4.2 | |
| 10 | | | | | 10 |
| | | | | 8.1 | |
| | | **CLAY, little SAND, few SILT (CH)** Dark gray, medium stiff, moist, fine grained, medium to high plasticity (0, 20, 10, 70) | GW-3-1-13.0 | 5.4 | |
| 15 | | | | | 15 |
| | | **CLAY, few SILT (CH)** Dark black, very stiff, dry, medium plasticity (0, 0, 20, 80) | | 4.9 | |
| | | | | 3.1 | |
| | | **CLAY, some SAND, trace SILT (CH)** Brown/gray, soft, wet, fine grained, medium plasticity (0, 20, 5, 75) | | | |
| 20 | | | | 3.3 | Boring terminated at 20 ft bgs 20 |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| GW-4 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/22/24-5/22/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 50, 5, 20) | | | |
| | | **CLAY, little SAND and SILT (CL)** Dark black, medium stiff, dry, fine grained, low plasticity (0, 15, 20, 65) | | 4.4 | |
| 5 | | | | | 5 |
| | | **CLAY, few SILT (CH)** Dark black, stiff to very stiff, dry, medium plasticity (0, 0, 20, 80) | | 4.8 | First encountered static water level: 9.15 ft bgs Second encountered static water level: 8.10 ft bgs |
| | | | | 8.3 | |
| 10 | | | | | 10 |
| | | | | 9.3 | |
| | | **CLAY, few SILT and SAND (CH)** Gray, soft to medium stiff, dry, fine grained, medium to high plasticity (0, 10, 10, 80) | | | |
| | | | | 9.5 | |
| | | | GW-4-1-13.5 | | |
| | | at 13.5 ft bgs - becomes moist/wet | | | |
| | | **CLAY, few SILT (CH)** Dark black, very stiff, dry, medium plasticity (0, 0, 20, 80) | | | |
| 15 | | | | | 15 |
| | | | | 7.9 | |
| | | **CLAY, little SAND and few SILT (CH)** Gray, soft, moist, fine grained, high plasticity (0, 15, 10, 75) | | 6.2 | |
| | | **CLAY, few SILT (CH)** Gray, soft to medium stiff, dry, medium to high plasticity (0, 0, 10, 90) | | | |
| 20 | | | | | 20 |
| | | | | 6.5 | |
| | | **CLAYEY SAND, trace SILT (SC)** Light brown, medium dense, moist, fine to coarse grained, non-plastic (0, 60, 5, 35) | | 5.4 | |
| | | **CLAY, little SILT (CH)** Dark brown, stiff to very stiff, dry, medium plasticity (0, 0, 15, 85) | | | |
| 25 | | | | | 25 |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| GW-4 | Not Measured | Not Measured |
| PROJECT NO./NAME | | LOCATION |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA |
| J.O. | D.B. | |

| Depth, feet | Graphic Log | Visual Description (continued) | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CLAY, little SILT (CH)**<br>Dark brown, stiff to very stiff, dry, medium plasticity (0, 0, 15, 85)<br>*(continued)* | | 5.5 | |
| | | | | 6.0 | |
| 30 | | | | 5.2 | 30 |
| | | **CLAY, little SAND and few SILT (CH)**<br>Light brown, stiff, dry, medium plasticity (0, 15, 10, 75) | | | |
| 35 | | | | 4.3 | Boring terminated at 35 ft bgs 35 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**GW-5** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**J.A.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/21/24-5/21/24** |
| LAND SURFACE ELEVATION<br>**Not Measured** | DEPTH TO WATER<br>**Not Encountered** | BACKFILL<br>**Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, few SILT (SW)**<br>Dark brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, no plasticity (30, 40, 10, 20) | | 3.8 | |
| 5 | | | | 2.6 | 5 |
| | | **CLAY, little SAND, few SILT (CH)**<br>Black, stiff, dry, fine to medium grained, subangular sand, well graded, low plasticity (0, 20, 0, 80)<br><br>-Some intervals with fine to coarse grained sand lense of orange brown, brown, and gray<br>at 6.8 ft bgs - lense with some moisture<br>at 7 ft bgs - color changes to light orange brown | | 4.2 | First encountered static water level: 5.95 ft bgs<br>Second encountered static water level: 7.43 ft bgs |
| 10 | | at 9.8 ft bgs - lense with wet sand and then dry | | 3.7 | 10 |
| | | **SANDY CLAY, few SILT, trace GRAVEL (CL)**<br>Light orange brown, stiff, moist, fine to coarse grained, subangular sand and gravel, medium plasticity (05, 40, 10, 55) | | 2.1 | |
| 15 | | **CLAYEY SAND, few SILT and GRAVEL (SC)**<br>Orange brown, soft, moist, fine to coarse grained, subangular sand and gravel, low plasticity (5, 50, 10, 35)<br>**SANDY CLAY (SC)**<br>Orange brown, stiff, moist, fine to coarse grained, subangular sand and gravel, medium plasticity (10, 30, 10, 50)<br>at 16.8 ft bgs - increased plasticity | | 12.5 | 15 |
| 20 | | **CLAYEY SAND, few SILT (SC)**<br>Orange brown, dense, moist, fine to medium grained, subangular sand, low plasticity (0, 60, 10, 30) | | 14 | 20 |
| | | **SANDY CLAY (SC)**<br>Orange brown, stiff, moist, medium to coarse grained sand (0, 30, 10, 60) | | | |
| 25 | | | | 10.1 | Boring terminated at 25 ft bgs 25 |

BORING/FEET 1793.0030S000 BORING LOGS - MGR\WORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| GW-6 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/23/24-5/24/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, few SILT, trace GRAVEL and DIRT (SP)** Black, dense, dry, fine to medium grained subangular sand and gravel, poorly graded, non-plastic (5, 80, 5, 10) | | | |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Orange brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (35, 40, 10, 15) | | 26.7 | |
| | | **SANDY CLAY, trace SILT (CH)** Black, stiff, dry, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (0, 30, 5, 65) | | | |
| 5 | | | | 30.6 | 5 |
| | | | | | First encountered static water level: 4.89 ft bgs Second encountered static water level: 5.02 ft bgs |
| | | | | 41.5 | |
| | | at 8 ft bgs - color changes to gray with orange brown mottling | | | |
| 10 | | | | 38.1 | 10 |
| | | | GW-6-12.0 | | |
| | | | | 24.5 | |
| | | at 14 ft bgs - increase in fine sand content, moist, 5% gravel | | | |
| 15 | | | | 34.5 | 15 |
| | | **SAND, little GRAVEL and CLAY, few SILT (SW-SC)** Orange brown, loose, wet, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (25, 45, 10, 20) | GW-6-17.5 | | |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Orange brown, loose, saturated, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (35, 40, 10, 15) | | | |
| 20 | | **SANDY CLAY, trace SILT (CH)** Orange brown, stiff, moist, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (0, 30, 5, 65) | | 18.6 | 20 |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Orange brown, loose, saturated, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (35, 40, 10, 15) | | | Boring terminated at 22.5 ft bgs |

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**P-01** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**J.A.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/23/24-5/23/24** |
| LAND SURFACE ELEVATION<br>**Not Measured** | DEPTH TO WATER<br>**Not Encountered** | BACKFILL<br>**Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SANDY CLAY, trace GRAVEL and SILT (CH)** Black, soft, dry, fine to medium grained, subangular sand and gravel, well graded, medium plasticity (15, 30, 5, 60) | | | |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Orange brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (35, 40, 10, 15) | | 6.5 | |
| 5 | | **SANDY CLAY, trace GRAVEL and SILT (CH)** Black, soft, dry, fine to medium grained, subangular sand and gravel, well graded, high plasticity (15, 30, 5, 60) | | 6.4 | |
| | | at 7 ft bgs - color changes to green with orange/brown mottling | | 8.5 | |
| | | at 8 ft bgs - gasoline odor | | | |
| 10 | ▽ GROUND WATER LEVEL (Static at 9.45 ft bgs) | | | 179 | |
| | | | | 360.8 | |
| 15 | | at 15 ft bgs - color changes to to gray, increase in sand content, moist | | 542 | |
| | | **CLAYEY SAND, little SILT (SC)** Gray, dense, wet, fine to medium coarse grained sand, subangular sand, well graded, low plasticity (0, 45, 20, 35) | P-01-16.5 | | Boring terminated at 17.5 ft bgs |
| | | **SANDY CLAY, trace GRAVEL and SILT (CH)** Gray, soft, moist to wet, fine to medium grained, subangular sand and gravel, well graded, high plasticity (15, 30, 5, 60) | | 427 | |

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| P-02 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/23/24-5/23/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SAND, few CLAY, trace SILT and GRAVEL (SP)** Black, dense, dry, fine to medium grained, subangular sand and gravel, poorly graded, non-plastic (5, 80, 5, 10) | | | |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Green, loose, dry, fine to medium grained, subangular sand and gravel, well graded, non-plastic (35, 40, 10, 15) | | | |
| | | **CLAYEY SAND, little SILT, trace GRAVEL (SC)** Green, dense, moist, fine to medium grained, subangular sand and gravel, poorly graded, low plasticity (5, 60, 15, 20) | | 3.1 | |
| | | **SAND, few CLAY, trace SILT and GRAVEL (SP)** Black, dense, moist, fine to medium grained, subangular sand and gravel, poorly graded, non-plastic (5, 80, 5, 10) | | | |
| 5 | | | | | 5 |
| | | **SANDY CLAY, trace SILT (CH)** Black, very soft, moist, fine to medium grained, subangular sand, well graded, medium plasticity (0, 30, 5, 65) | | 1.8 | |
| | ▽ GROUND WATER LEVEL (Static at 6.45 ft bgs) | | | | |
| | | at 7 ft bgs - color changes to orange/brown with green mottling, increase in plasticity | | 0.8 | |
| 10 | | | | | 10 |
| | | at 11 ft bgs - increase in sand content and moisture | | 3.4 | |
| | | | P-02-12.5 | | |
| | | **GRAVELY SAND, little CLAY, few SILT (SW-SC)** Orange brown, loose, saturated, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (35, 40, 10, 15) | | | |
| | | **SANDY CLAY, trace SILT (CH)** Black, very soft, moist, fine to medium grained, subangular sand, well graded, medium plasticity (0, 30, 5, 65) | | | |
| 15 | | | | | Boring terminated at 15 ft bgs 15 |

NOTES:

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Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| P-06 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/23/24-5/23/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Brown, loose, dry, fine grained, subangular sand and gravel, non-plastic (25, 50, 5, 20) | | | |
| | | **SAND, little SILT (SM)** Dark black, loose, dry, very fine to fine grained, poorly graded (0, 80, 20, 0) | | 6.1 | |
| | ▽ GROUND WATER LEVEL (Static at 3.55 ft bgs) | | | | |
| | | **CLAY, little SILT, trace SAND (CL)** Dark brown, medium stiff, dry, low plasticity (0, 5, 20, 75) | | | |
| 5 | | | P-06-5.0 | 9.3 | 5 |
| | | **CLAYEY SAND (SC)** Light brown/ gray, soft, wet, fine grained, poorly graded, non-plastic (0, 80, 0, 20) | | | |
| | | **CLAY, little SILT (CH)** Dark brown, stiff, dry, medium plasticity (0, 0, 15, 85) | | | |
| 10 | | | | | Boring terminated at 10 ft bgs 10 |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| P-08 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/23/24-5/23/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Brown, loose, dry, fine grained, subangular sand and gravel, non-plastic (25, 50, 5, 20) | | | |
| | | **SAND, little SILT (SM)** Dark black, loose, dry, very fine to fine grained, poorly graded (0, 80, 20, 0) | | 7.1 | |
| | ▽ GROUND WATER LEVEL (Static at 3.12 ft bgs) | **CLAY, little SILT (CL)** Dark black, medium stiff, dry, low plasticity (0, 0, 20, 80) | | | |
| 5 | | | P-08-5.0 | 44.6 | 5 |
| | | **CLAYEY SAND (SC)** Light brown/gray, loose to soft, wet, fine grained, non-plastic (0, 80, 0, 20) | | | |
| 10 | | | | | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| P-11 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.C. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/24/24-5/24/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **GRAVELY SAND, trace SILT and CLAY (SW-SC)**<br>Dark brown, loose, dry, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (25, 65, 5, 5) | | 4.2 | bgs = below ground surface. |
| | | **SANDY CLAY, little SILT (CL)**<br>Dark brown, dry, fine to coarse grained, subangular sand and gravel, non-plastic (5, 20, 15, 60) | | 4.3 | Density estimates not intended for geotechnical purposes. |
| | | | | 3.1 | ft bgs = feet below ground surface. |
| | | | | 4.6 | |
| 5 | ▽ GROUND WATER LEVEL (Static at 4.75 ft bgs) | **SILTY CLAY, trace SAND (CL)**<br>Dark brown, dry, poorly graded, medium plasticity (0, 5, 35, 60) | | 4.0 | 5 |
| | | **CLAY, little SILT (CH)**<br>Dark brown, dry, poorly graded, medium plasticity (0, 0, 20, 80) | | | |
| 10 | | **CLAY, little SILT, trace SAND (CH)**<br>Light brown, dry, poorly graded, medium plasticity (0, 5, 15, 80) | | | 10 |
| | | **CLAYEY SAND (SC)**<br>Light reddish brown, wet, fine to medium grained, non-plastic (0, 80, 0, 20) | P-11-12.5 | 5.1 | |
| | | **SILTY CLAY, trace SAND (CL)**<br>Light brown, stiff, dry, poorly graded, medium plasticity (0, 5, 30, 70) | | | |
| 15 | | | | | Boring terminated at 15 ft bgs 15 |

NOTES:

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# BORING LOG

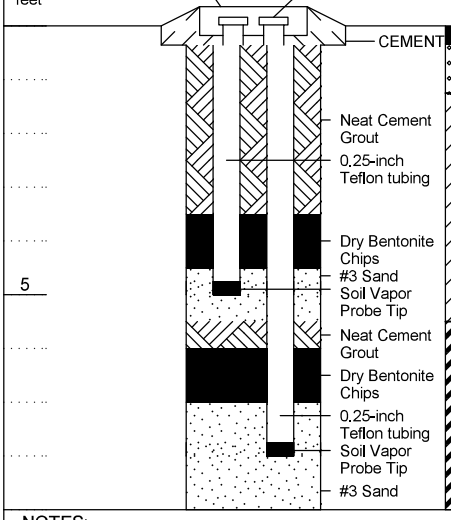
| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| SVP-06 | Not Measured | Not Measured |

| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY: J.O. / LOGGED BY: D.B. | OAKLAND, CALIFORNIA |
| DRILLING CONTRACTOR/DRILLER: Cascade Drilling | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/28/24-5/28/24 |

CASING MAT./DIA.: Nylaflow/0.25" / | SCREEN: TYPE MAT. TOTAL LENGTH 0.5 ft DIA. 0.25" SLOT SIZE

ELEVATION OF: (Feet) GROUND SURFACE TOP OF CASING | GRAVEL PACK SIZES: #3 sand




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, trace SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, well graded (30, 50, 5, 15) | | 8.2 | |
| | | **CLAY, little SILT, trace SAND (CL)** Dark black, medium stiff to stiff, dry, low plasticity, no odor (0, 5, 20, 75) | | 9.2 | |
| 5 | | **SANDY CLAY, trace SILT (CL)** Dark black, soft, dry, fine grained, low plasticity, slight odor (0, 25, 5, 70) | SVP-06-8/5.0 | 10.1 | 5 |
| | | **CLAY, few SILT (CH)** Dark black, soft to medium stiff, dry, medium plasticity, no odor (0, 0, 15, 85) | | 8.1 | Soil vapor probes installed in collocated borings. |
| | | | | 8.0 | Boring terminated at 9 ft bgs. |

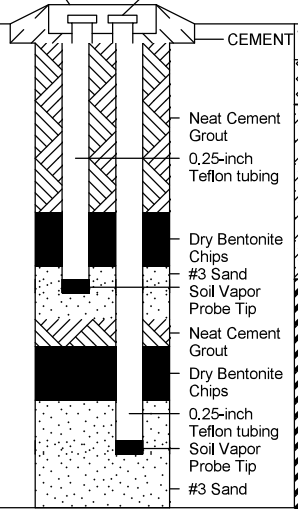
NOTES:
Soil vapor probes SVP-06-5 and SVP-06-8 were installed in co-located borehole

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**SVP-10** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**D.B.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/29/24-5/29/24** |
| CASING MAT./DIA.<br>**Nylaflow/0.25" /** | SCREEN:<br>TYPE MAT. | TOTAL LENGTH **0.5** ft | DIA. **0.25"** | SLOT SIZE |
| ELEVATION OF: (Feet)<br>GROUND SURFACE TOP OF CASING | | | | GRAVEL PACK SIZES<br>**#3 sand** |




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, well graded (30, 50, 10, 10) | | 3.9 | |
| | | **CLAYEY SAND, trace SILT (SC)** Light brown, loose to soft, dry, fine to medium grained, poorly graded, non-plastic, no odor (0, 60, 5, 35) | | 4.4 | |
| 5 | | SVP-10-8-5.0 | | | 5 |
| | | **CLAY, few SILT (CH)** Light gray, medium stiff, dry, medium plasticity (0, 0, 10, 90) at 5 ft bgs - odor | | 62.7 | |
| | | at 7.75 ft bgs - becomes stiffer | | 22.1 | Soil vapor probes installed in collocated borings. |
| | | | | 8.4 | Boring terminated at 9 ft bgs. |

NOTES:

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# BORING LOG

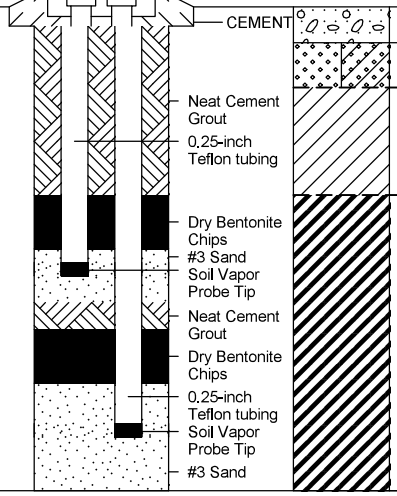
| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| SVP-13 | Not Measured | Not Measured |

| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY: J.O. / LOGGED BY: D.B. | OAKLAND, CALIFORNIA |
| DRILLING CONTRACTOR/DRILLER: Cascade Drilling | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |

CASING MAT./DIA.: Nylaflow/0.25" / | SCREEN: TYPE MAT. TOTAL LENGTH 0.5 ft DIA. 0.25" SLOT SIZE

ELEVATION OF: (Feet) GROUND SURFACE TOP OF CASING | GRAVEL PACK SIZES: #3 sand




| Depth, feet | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|
| | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, well graded (30, 50, 10, 10) | | 5.1 | |
| | **CLAY, little SAND, few SILT (CL)** Black/light gray, medium stiff, dry, fine grained, medium plasticity, no odor (0, 20, 10, 70) | | 7.6 | |
| 5 | **CLAY, few SILT (CH)** Light gray, medium stiff to stiff, dry, medium to high plasticity, no odor (0, 0, 10, 90) | | 8.1 | 5 |
| | at 7.0 ft bgs - becomes very stiff | | 7.9 | Soil vapor probes installed in collocated borings. |
| | | | 4.3 | Boring terminated at 9 ft bgs. |

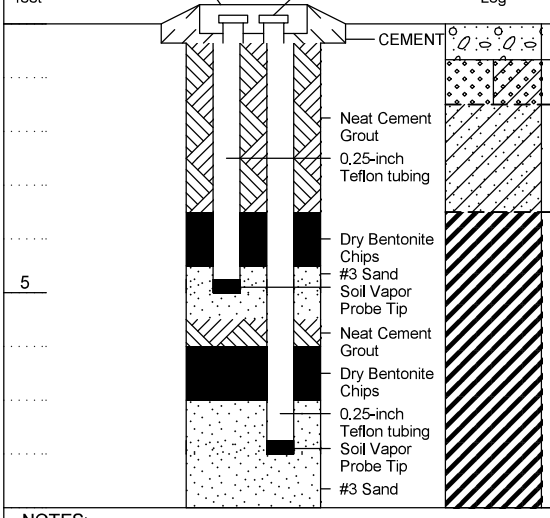
NOTES:

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**SVP-25** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**D.B.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/29/24-5/29/24** |
| CASING MAT./DIA.<br>**Nylaflow/0.25" /** | SCREEN:<br>TYPE MAT. | TOTAL LENGTH **0.5** ft | DIA. **0.25"** | SLOT SIZE |
| ELEVATION OF: (Feet)<br>GROUND SURFACE TOP OF CASING | | | | GRAVEL PACK SIZES<br>**#3 sand** |




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, well graded (30, 50, 10, 10) | | 7.1 | |
| | | **CLAYEY SAND, trace SILT (SC)** Light brown, loose, dry, fine to medium grained, poorly graded, non-plastic, no odor (0, 60, 5, 35) | | 8.9 | |
| 5 | | **CLAY, few SILT (CH)** Gray, medium stiff to stiff, dry, medium plasticity, strong odor from 5-7 ft bgs (0, 0, 10, 90) | | 9.3 | 5 |
| | | | SVP-25-8-8.0 | 11.4 | Soil vapor probes installed in collocated borings. |
| | | | | 7.6 | Boring terminated at 9 ft bgs. |

NOTES:

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# BORING LOG

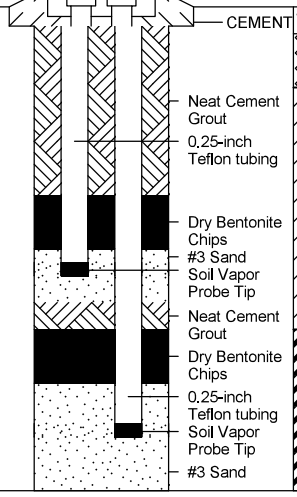
| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| SVP-32 | Not Measured | Not Measured |

| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY: J.O. / LOGGED BY: D.B. | OAKLAND, CALIFORNIA |
| DRILLING CONTRACTOR/DRILLER: Cascade Drilling | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/28/24-5/28/24 |

CASING MAT./DIA.: Nylaflow/0.25" / | SCREEN: TYPE MAT. TOTAL LENGTH 0.5 ft DIA. 0.25" SLOT SIZE

ELEVATION OF: (Feet) GROUND SURFACE TOP OF CASING | GRAVEL PACK SIZES: #3 sand




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, well graded (25, 50, 10, 15) | | 3.9 | |
| | | **CLAY, little SILT, few SAND (CL)** Black, soft to medium stiff, dry, low plasticity, no odor (0, 10, 20, 70) | | 5.2 | |
| 5 | | **SANDY CLAY, trace SILT (CL)** Dark black, soft, dry, fine grained, low plasticity, no odor (0, 25, 5, 70) | | 5.3 | 5 |
| | | **CLAY, few SILT (CH)** Dark black, soft to medium stiff, dry, medium plasticity, no odor (0, 0, 15, 85) | | 4.9 | Soil vapor probes installed in collocated borings. |
| | | | | 4.1 | Boring terminated at 9 ft bgs. |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGR\WORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| SVP-36 | Not Measured | Not Measured |

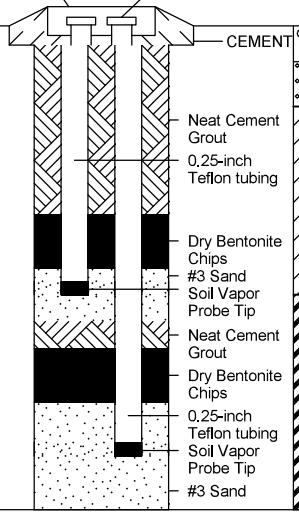
| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY: J.O. / LOGGED BY: D.B. | OAKLAND, CALIFORNIA |
| DRILLING CONTRACTOR/DRILLER: Cascade Drilling | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |

CASING MAT./DIA.: Nylaflow/0.25" / SCREEN: TYPE MAT. TOTAL LENGTH 0.5 ft DIA. 0.25" SLOT SIZE

ELEVATION OF: (Feet) GROUND SURFACE TOP OF CASING

GRAVEL PACK SIZES: #3 sand




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Brown/gray, loose, dry, fine to coarse grained, well graded (30, 50, 10, 10) | | 4.9 | |
| | | **CLAY, little SAND, few SILT (CL)** Black, light gray, stiff, dry, fine grained, medium plasticity, odor (0, 20, 10, 70) | | 12.2 | |
| | | at 4 ft bgs - odor | | | |
| 5 | | **CLAY, few SILT (CH)** Light gray, soft to medium stiff, dry, high plasticity (0, 0, 10, 90) at 6 ft bgs - strong odor | | 82.1 | 5 |
| | | at 7 ft bgs - becomes moist | SVP-36-8-8.0 | 258.3 | Soil vapor probes installed in collocated borings. Boring terminated at 9 ft bgs. |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| SVP-41 | Not Measured | Not Measured |

| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET<br>OAKLAND, CALIFORNIA |

| APPROVED BY | LOGGED BY |
|---|---|
| J.O. | J.A. |

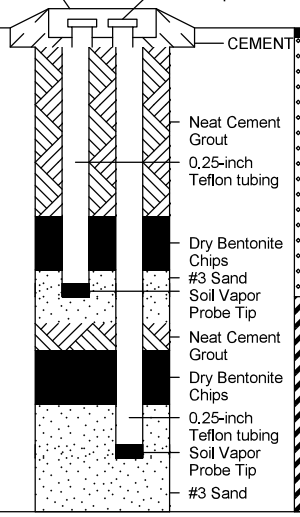
DRILLING CONTRACTOR/DRILLER: Cascade Drilling

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/21/24-5/21/24 |

CASING MAT./DIA.: Nylaflow/0.25" /
SCREEN: TYPE MAT. TOTAL LENGTH 0.5 ft DIA. 0.25" SLOT SIZE

ELEVATION OF: (Feet) GROUND SURFACE TOP OF CASING

GRAVEL PACK SIZES: #3 sand




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **ASPHALT** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, few SILT (SW)** Dark brown, loose, moist, fine to coarse grained, subangular sand and gravel, well graded, no plasticity (30, 40, 10, 20) | | | |
| 5 | | **CLAY, little SAND, few SILT (CH)** Black, stiff, dry, fine to medium grained, subangular sand, well graded, low plasticity (0, 20, 0, 80) | | | 5 |
| | | | | | Soil vapor probes installed in collocated borings. |
| | | | | | Boring terminated at 9 ft bgs. |

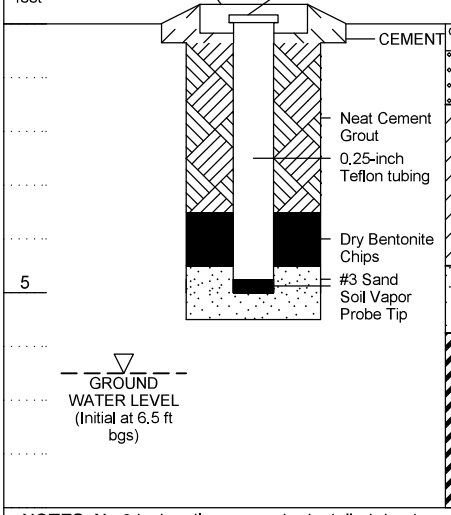
NOTES:

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Telephone: (310) 879 - 4900



# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**SVP-45** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**D.B.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/28/24-5/28/24** |
| CASING MAT./DIA.<br>**Nylaflow/0.25" /** | SCREEN:<br>TYPE MAT. | TOTAL LENGTH **0.5** ft | DIA. **0.25"** | SLOT SIZE |
| ELEVATION OF: (Feet)<br>GROUND SURFACE TOP OF CASING | | | GRAVEL PACK SIZES<br>**#3 sand** | |




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Light brown, loose, dry, fine to coarse grained, well graded (25, 50, 10, 15) | | 7.9 | |
| | | **CLAY, little SILT, few SAND (CL)** Black/gray, medium stiff, dry, low plasticity, no odor (0, 10, 20, 70) | | 7.6 | |
| 5 | | **SAND, trace CLAY, trace SILT (SP-SC)** Dark black, loose, slightly moist, fine grained, poorly graded, no odor (0, 80, 10, 10) | SVP-45-8-5.0 | 11.2 | 5 |
| | | **CLAY, few SILT (CH)** Dark black/gray, soft to medium stiff, moist, medium plasticity, no odor (0, 0, 15, 85) at 6 ft bgs - becomes wet | | 8.1 | No 8' soil vapor probe installation due to groundwater encountered at 6.5 ft bgs. |
| | | | | 6.2 | Boring terminated at 9 ft bgs. |

NOTES: No 8 inch soil vapor probe installed due to groundwater at 6.5 bgs

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# BORING LOG

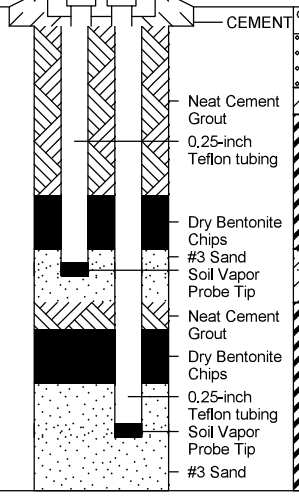
| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| SVP-52 | Not Measured | Not Measured |

| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY: J.O. / LOGGED BY: D.B. | OAKLAND, CALIFORNIA |
| DRILLING CONTRACTOR/DRILLER: Cascade Drilling | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/29/24-5/29/24 |

CASING MAT./DIA.: Nylaflow/0.25" / | SCREEN: TYPE MAT. TOTAL LENGTH 0.5 ft DIA. 0.25" SLOT SIZE

ELEVATION OF: (Feet) GROUND SURFACE TOP OF CASING | GRAVEL PACK SIZES: #3 sand




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, well graded (30, 50, 10, 10) | | 6.3 | |
| | | **CLAY, little SAND, few SILT (CL)** Light gray, soft, dry, fine grained, low plasticity, no odor (0, 20, 10, 70) | | 8.0 | |
| | | **CLAY, few SILT (CH)** Light gray/black, medium stiff, dry, medium plasticity, no odor (0, 0, 10, 90) | | | |
| 5 | | **CLAYEY SAND, trace SILT (SC)** Black, loose to medium dense, moist, fine grained, no odor (0, 60, 5, 35) | | 8.2 | 5 |
| | | **CLAY, few SILT (CH)** Dark gray/black, medium stiff to stiff, dry, medium plasticity, no odor (0, 0, 10, 90) | | | |
| | | | | 5.1 | Soil vapor probes installed in collocated borings. |
| | | | | 5.3 | Boring terminated at 9 ft bgs. |

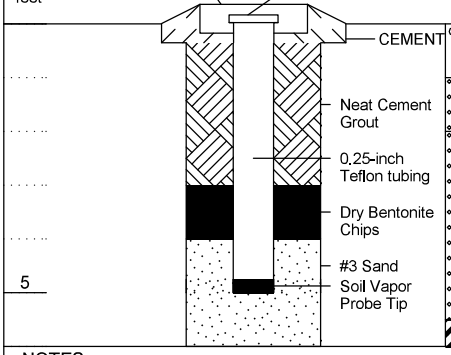
NOTES:

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**SVP-53-5** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**J.C.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/24/24-5/24/24** |
| CASING MAT./DIA.<br>**Nylaflow/0.25" /** | SCREEN:<br>TYPE MAT. | TOTAL LENGTH **0.5** ft | DIA. **0.25"** | SLOT SIZE |
| ELEVATION OF: (Feet) | GROUND SURFACE TOP OF CASING | | | GRAVEL PACK SIZES<br>**#3 sand** |




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). |
| | | **GRAVELY SAND, trace SILT, few CLAY (SW-SC)**<br>Light brown, loose, moist, fine to coarse grained, subangular sand and gravel, well graded, non-plastic (25, 55, 5, 10) | | 5.3<br>6.2 | bgs = below ground surface.<br>Density estimates not intended for geotechnical purposes. |
| | | **GRAVELY SAND, with CLAY (SW)**<br>Brown/black with red mottling, loose, dry, fine to coarse grained, subangular sand and gravel, non-plastic (25, 65, 0, 10) | SVP-53-5-4.0 | 6.0<br>10.2 | ft bgs = feet below ground surface. |
| 5 | | | | | 5 |
| | | | | 8.7 | Boring terminated at 6.0 ft bgs. |
| | | **CLAY, trace SILT (CH)**<br>Black, medium stiff, moist, subangular sand and gravel, poorly graded, plastic (0, 0, 5, 95) | | 8.4 | |

NOTES:

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE |
|---|---|---|
| SVP-57 | Not Measured | Not Measured |

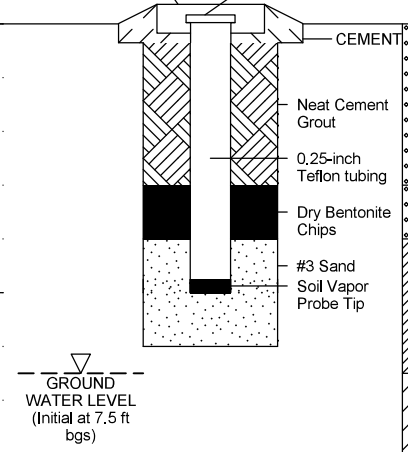
| PROJECT NO./NAME | LOCATION |
|---|---|
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | AB&I - 7825 SAN LEANDRO STREET |
| APPROVED BY: J.O. / LOGGED BY: J.C. | OAKLAND, CALIFORNIA |
| DRILLING CONTRACTOR/DRILLER: Cascade Drilling | |

| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
|---|---|---|---|---|
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/24/24-5/24/24 |

CASING MAT./DIA.: Nylaflow/0.25" / SCREEN: TYPE MAT. TOTAL LENGTH 0.5 ft DIA. 0.25" SLOT SIZE

ELEVATION OF: (Feet) GROUND SURFACE TOP OF CASING

GRAVEL PACK SIZES: #3 sand




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **GRAVELY SAND, trace SILT (SW)** Reddish brown, very loose, dense, subangular sand and gravel, well graded, non-plastic (40, 55, 5, 0) | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, trace fine SILT and CLAY (SW-SC)** Black, medium dense, dry, subangular sand and gravel, well graded, non-plastic (35, 55, 5, 5) | | | |
| 5 | | **GRAVELY CLAY with SAND (CL-ML)** Black, medium stiff, dense, subangular sand and gravel, well graded, non-plastic (30, 20, 0, 50) | | | 5 |
| | | **SANDY CLAY (CL)** Black, medium stiff, moist to wet, subangular sand and gravel, non-plastic (0, 35, 0, 65) from 7.5 to 9 ft bgs - becomes wet | | | No 8' soil vapor probe installation due to groundwater encountered at 7.5 ft bgs. |
| | | | | | Boring terminated at 9 ft bgs |

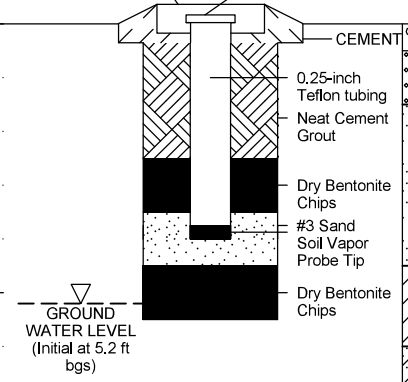
NOTES: No 8 inch soil vapor probe installed due to groundwater at 7.5 bgs

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**SVP-61** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**J.C.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/29/24-5/29/24** |
| CASING MAT./DIA.<br>**Nylaflow/0.25" /** | SCREEN:<br>TYPE MAT. | TOTAL LENGTH **0.5** ft | DIA. **0.25"** | SLOT SIZE |
| ELEVATION OF: (Feet)<br>GROUND SURFACE TOP OF CASING | | | | GRAVEL PACK SIZES<br>**#3 sand** |




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, well graded, no odor (30, 50, 10, 10) | | 2.8 | |
| | | **SAND, little SILT (SP-SM)** Dark black, loose, dry, very fine to fine grained, poorly graded, (0, 80, 20, 0) | | 11.2 | |
| 5 | | **SANDY CLAY, trace SILT (CL)** Black/light gray, loose to medium dense, moist, fine grained, poorly sorted, medium plasticity (0, 35, 5, 60) at 5.2 ft bgs - becomes wet | | 4.8 | 5 |
| | | **CLAYEY SAND (SC)** Light gray, medium dense, wet, fine grained, poorly graded (0, 70, 0, 30) | | | No 8' soil vapor probe installation due to groundwater encountered at 5.2 ft bgs. |
| | | | | | Boring terminated at 9 ft bgs. |

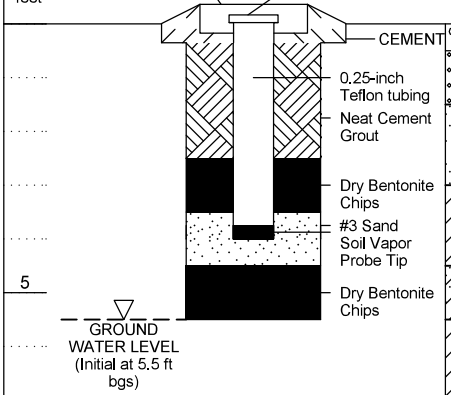
NOTES: No 8 inch soil vapor probe installed due to groundwater at 5.2 bgs

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# BORING LOG

| | | | | |
|---|---|---|---|---|
| WELL NO.<br>**SVP-62** | LATITUDE<br>**Not Measured** | LONGITUDE<br>**Not Measured** | | |
| PROJECT NO./NAME<br>**1793.0030S000 / DUKE REALTY FOUNDRY LP** | | LOCATION<br>**AB&I - 7825 SAN LEANDRO STREET**<br>**OAKLAND, CALIFORNIA** | | |
| APPROVED BY<br>**J.O.** | LOGGED BY<br>**J.C.** | | | |
| DRILLING CONTRACTOR/DRILLER<br>**Cascade Drilling** | | | | |
| DRILL BIT TYPE<br>**DPT** | BOREHOLE DIAMETER<br>**2.25-inches** | DRILLING EQUIPMENT/METHOD<br>**Geoprobe 6011** | SAMPLING METHOD<br>**Acetate Liner** | START-FINISH DATE<br>**5/29/24-5/29/24** |
| CASING MAT./DIA.<br>**Nylaflow/0.25" /** | SCREEN:<br>TYPE MAT. | TOTAL LENGTH **0.5** ft | DIA. **0.25"** | SLOT SIZE |
| ELEVATION OF: (Feet)<br>GROUND SURFACE TOP OF CASING | | | | GRAVEL PACK SIZES<br>**#3 sand** |




| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, few CLAY, few SILT (SW-SC)** Brown, loose, dry, fine to coarse grained, well graded, no odor (30, 50, 10, 10) | | 8.8 | |
| | | **SAND, little SILT (SP-SM)** Black, loose, dry, very fine to fine grained, poorly graded, no odor (0, 80, 20, 0) | | 8.7 | |
| | | **CLAY, little SILT (CL)** Dark black, medium stiff, dry, low plasticity, slight odor (0, 0, 20, 80) | | | |
| 5 | | **CLAYEY SAND (SC)** Light brown/gray, loose to medium dense, moist, fine grained, poorly graded (0, 80, 0, 20) | | 5.3 | 5 |
| | | **CLAY, little SILT (CL)** Black, medium stiff, wet, low plasticity, slight odor (0, 0, 20, 80) | | | No 8' soil vapor probe installation due to groundwater encountered at 5.5 ft bgs. |
| | | **CLAYEY SAND (SC)** Light brown/gray, loose to medium dense, wet, fine grained, poorly graded, non-plastic, no odor (0, 80, 0, 20) | | | Boring terminated at 9 ft bgs |

NOTES: No 8 inch soil vapor probe installed due to groundwater at 5.5 bgs

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| UC-A2-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/20/24-5/20/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little SILT (SW-SC)** Light gray, very loose, dry, fine to medium grained subangular sand and gravel, well graded (35, 40, 25, 0) | UC-A2-1- 1.0 | 2.9 | |
| | | at 1.7 ft bgs - some clay | UC-A2-1-2.0 | 3.7 | |
| | | **CLAYEY SAND, little GRAVEL, few SILT (SC)** Dark brown, medium dense, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (20, 40, 10, 30) | UC-A2-1-3.0 | 2.6 | |
| | | at 2.1 ft bgs - becomes soft | | | |
| | | **CLAY, little SAND (CH)** Black, soft, dry, fine to medium grained, subangular sand, poorly graded, medium to high plasticity (0, 20, 0, 80) | UC-A2-1-4.0 | 4.6 | |
| 5 | | | UC-A2-1-5.0 | 2.1 | 5 |
| | | | UC-A2-1-8.0 | 3.6 | |
| | | **SANDY CLAY, little GRAVEL and SILT (CL)** Orange brown, medium stiff, dry, fine to coarse grained, subangular sand and gravel, well graded, low plasticity (15, 35, 15, 45) | | | |
| 10 | | | UC-A2-1-10.0 | 4.1 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| **UC-A3-1** | **Not Measured** | **Not Measured** | | |
| PROJECT NO./NAME | | LOCATION | | |
| **1793.0030S000 / DUKE REALTY FOUNDRY LP** | | **AB&I - 7825 SAN LEANDRO STREET** | | |
| APPROVED BY | LOGGED BY | **OAKLAND, CALIFORNIA** | | |
| **J.O.** | **J.A.** | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| **Cascade Drilling** | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| **DPT** | **2.25-inches** | **Geoprobe 6011** | **Acetate Liner** | **5/20/24-5/20/24** |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| **Not Measured** | **Not Encountered** | **Neat Cement Grout** | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SILTY GRAVEL, few SAND (GM)** Light gray, very loose, dry, fine to medium grained, subangular sand and gravel, well graded (60, 10, 30, 0) | UC-A3-1-1.0 | 2.6 | |
| | | at 1.0 ft bgs - color change to brown | UC-A3-1-2.0 | 4.8 | |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Gray, medium dense, moist, medium to coarse grained, subangular sand and gravel, well graded, low plasticity (30, 50, 5, 15) | UC-A3-1-3.0 | 4.4 | |
| | | | UC-A3-1-4.0 | 4.6 | |
| 5 | | | | | 5 |
| | | | | 2.1 | |
| | | at 5.4 ft bgs - sitcky feeling, similar to bentonite | | | |
| | | **CLAY, little SAND (CH)** Black, very stiff, dry, fine to medium grained, subangular sand, poorly graded, medium to high plasticity (0, 20, 0, 80) | | | |
| | | | UC-A3-1-8.0 | 3.4 | |
| 10 | | at 9.5 ft bgs - becomes dense, moist sand | UC-A3-1-10.0 | 3.5 | Boring terminated at 10 ft bgs 10 |

NOTES: Drillers felt a void from about 2 to 3 feet, able to push down without force from the hammer

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# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| UC-B4-2 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | D.B. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/23/24-5/23/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **GRAVELY SAND, little CLAY, trace SILT (SW-SC)** Light brown, loose, dry, fine grained, subangular sand and gravel, non-plastic (25, 50, 5, 20) | UC-B4-2-1.0 | 14.9 | |
| | | **SAND, little SILT (SP-SM)** Dark black, loose, dry, very fine to fine grained, poorly graded, slight odor (0, 80, 20, 0) | UC-B4-2-2.0 | 15.7 | |
| | | | UC-B4-2-3.0 | 22.3 | |
| | | **CLAY, little SILT (CL)** Dark brown/black, medium stiff to stiff, dry, very fine grained with few sand, non-plastic to low plasticity (0, 10, 25, 65) | UC-B4-2-4.0 | 13.2 | |
| 5 | | | UC-B4-2-5.0 | 16.2 | 5 |
| | | **CLAY, little SILT (CL)** Dark brown/black, medium stiff, dry, low to medium plasticity (0, 0, 15, 85) | UC-B4-2-8.0 | 6.4 | |
| 10 | | | UC-B4-2-10.0 | 6.1 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

ROUX
5150 E. Pacific Coast Highway, Suite 450
Long Beach, California 90804
Telephone: (310) 879 - 4900



# BORING LOG

| WELL NO. | LATITUDE | LONGITUDE | | |
|---|---|---|---|---|
| UC-H1-1 | Not Measured | Not Measured | | |
| PROJECT NO./NAME | | LOCATION | | |
| 1793.0030S000 / DUKE REALTY FOUNDRY LP | | AB&I - 7825 SAN LEANDRO STREET | | |
| APPROVED BY | LOGGED BY | OAKLAND, CALIFORNIA | | |
| J.O. | J.A. | | | |
| DRILLING CONTRACTOR/DRILLER | | | | |
| Cascade Drilling | | | | |
| DRILL BIT TYPE | BOREHOLE DIAMETER | DRILLING EQUIPMENT/METHOD | SAMPLING METHOD | START-FINISH DATE |
| DPT | 2.25-inches | Geoprobe 6011 | Acetate Liner | 5/30/24-5/30/24 |
| LAND SURFACE ELEVATION | DEPTH TO WATER | BACKFILL | | |
| Not Measured | Not Encountered | Neat Cement Grout | | |

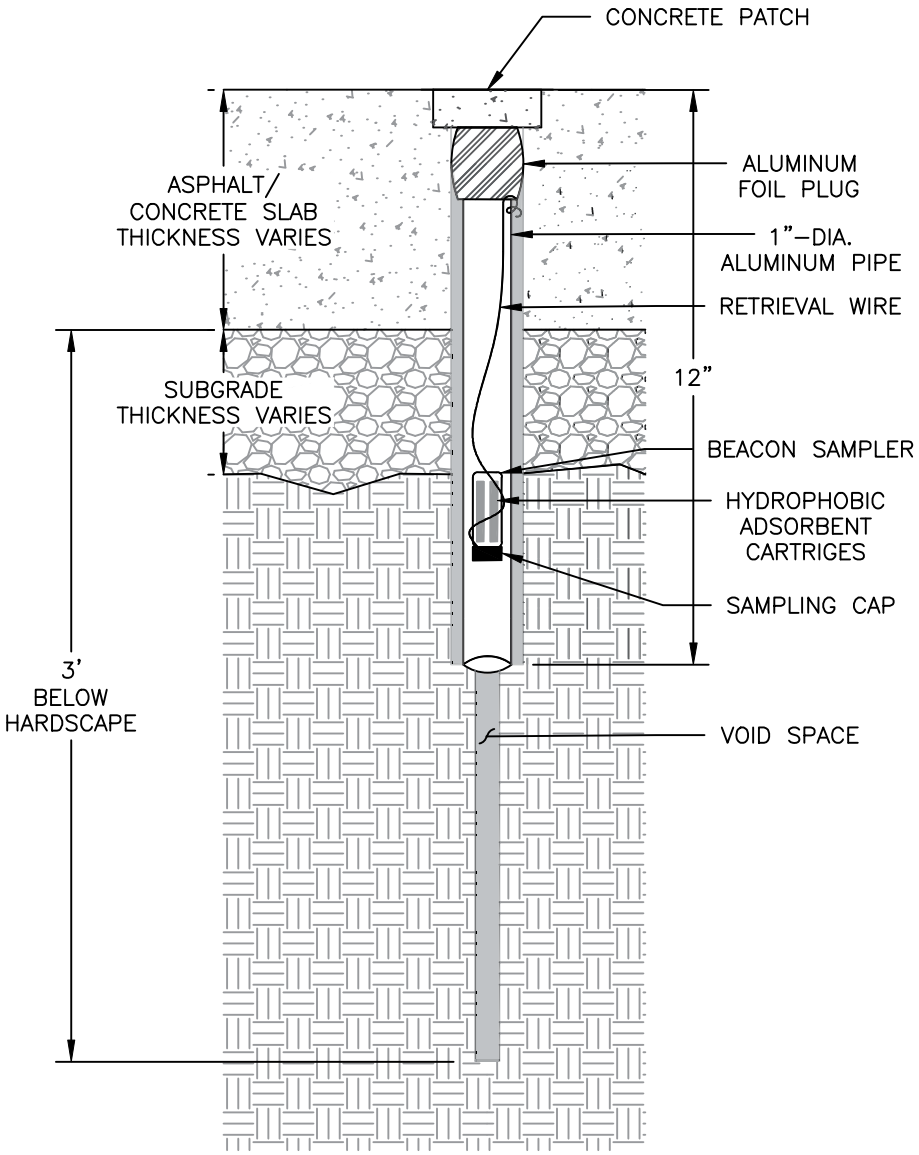
| Depth, feet | Graphic Log | Visual Description | Blow Counts per 6" | PID Values (ppm) | REMARKS |
|---|---|---|---|---|---|
| | | **CONCRETE** | | | (X, X, X, X) corresponds to (% Gravel, % Sand, % Silt, % Clay). bgs = below ground surface. Density estimates not intended for geotechnical purposes. ft bgs = feet below ground surface. |
| | | **SANDY CLAY, little GRAVEL, few SILT (CH)** Black, soft, dry, fine to medium grained, subangular sand and gravel, well graded, medium to high plasticity (15, 30, 10, 45) | UC-H1-1-1.0 | 2.6 | |
| | | at 2 ft bgs - gas odor | UC-H1-1-2.0 | 22.3 | |
| | | from 2.9 to 3.0 ft bgs - large pieces of gravel content | UC-H1-1-3.0 | 1.7 | |
| | | **SAND, little CLAY, few SILT, trace GRAVEL (SW-SC)** Brown, dense, dry, fine to medium grained, subangular sand and gravel, well graded, low plasticity (5, 60, 10, 25) | UC-H1-1-4.0 | 3 | |
| 5 | | **CLAY, little SAND, few SILT, trace GRAVEL (CH)** Black, stiff, dry, fine to medium grained, subangular sand and gravel, well graded, medium to high plasticity (5, 25, 10, 60) | UC-H1-1-5.0 | 3 | 5 |
| | | | UC-H1-1-8.0 | 0.8 | |
| | | at 9 ft bgs - color changes to gray with orange mottling | | | |
| 10 | | | UC-H1-1-10.0 | 0.5 | Boring terminated at 10 ft bgs 10 |

NOTES:

BORING/FEET 1793.0030S000 BORING LOGS - MGRWORKING.GPJ ROUX.GDT 9/6/24

# APPENDIX G

Passive Soil Vapor Sampler Construction Detail




Title:

# PASSIVE SOIL VAPOR SAMPLER CONSTRUCTION DETAIL

7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Prepared for:

DUKE REALTY FOUNDRY LP

ROUX

| | | |
|---|---|---|
| Compiled by: H.R. | Date: 04OCT2023 | FIGURE |
| Prepared by: E.T. | Scale: AS SHOWN | G-5 |
| Project Mgr: H.R. | Project: 2968.0018L000 | |
| File: 7825 SAN LEANDRO ST.DWG | | |

S:\CLIENTS\PROLOGIS\7825 SAN LEANDRO STREET\02_ROUX WORK PRODUCT\CAD\7825 SAN LEANDRO ST.DWG

# APPENDIX H

Laboratory Analytical Reports & Chain-of-Custody Records

| | |
|---|---|
| Date: | September 16, 2024 |
| Project Name: | American Brass and Iron (AB&I) Foundry |
| Laboratory: | Beacon Environmental |
| Lab Job Number: | 7787 |
| Sample Media: | Passive Soil Vapor |
| Samples: | All sample IDs in the report |

Data review was performed for the data package generated by Beacon Environmental for samples collected at American Brass and Iron (AB&I) Foundry at 7825 San Leandro Street in Oakland, CA in April 2024.

The data validation was done in accordance with Department of Defense (DOD)[1][2] United States Environmental Protection Agency (USEPA)[3] [4] validation documents and included the following items:

- Data deliverable completeness
- Laboratory case narratives
- Chain of custody documentation
- Holding times
- Limit of quantification
- Control Samples
    - Blank spiked and trip blanks
    - Method Blanks
    - Field duplicate samples

The items above that have issues potentially affecting data usability are discussed in this report.

**Data Deliverable Completeness**

Complete deliverable data packages were provided by the laboratory, which included reporting forms necessary to validate the reported analytical results. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative. The laboratory submitted all required deliverables. Sample results and related quality control data were received as data sheet (e.g., excel). Electronic data were verified against the laboratory report; no errors were found.

**Laboratory Case Narratives**

The laboratory case narratives included in the report detail how the issue of high concentrations was addressed. Specifically, the narratives explain the corrective actions taken, including the appropriate

[1] USDOD, Environmental Data Quality Workgroup. *Data Validation Guidelines Module 5: Data Validation Procedure for Metals by ICP-MS*. 11/09/2022.
[2] *USDOD, Environmental Data Quality Workgroup. Data Validation Guidelines Module 4: Data Validation Procedure for Organic Analysis by GC*
[3] USEPA. *National Functional Guidelines for Inorganic Superfund Method Data Review.* EPA 542-R-20-006. November, 2020.
[4] USEPA. *National Functional Guidelines for Organic Superfund Method Data Review.* EPA 540-R-20-005.

dilution steps for real samples and considerations for the limit of quantification (LOQ). All necessary adjustments were accounted for to ensure accurate results. The narratives also confirmed that all samples were delivered to the laboratory at the correct temperature, in the proper container, and with the appropriate preservatives.

**Chain of Custody Documentation**

Sample identification (ID) numbers listed on the chain-of-custody record are consistent with the sample ID reported in the Analytical laboratory reports.

**Sample Receipt/Holding Times**

All samples were analyzed within the holding times for the requested analytical methods.

**Limits of Quantitation**

All limits of quantitation (LOQs) are below the project environmental screening levels and all analytes are detectable at concentrations lower than the screening level.

**Quality Control Samples**

The method blanks had no contamination. The relative percent difference (RPD) for lab control sample (LCS) and duplicate (LCSD) was within the recommended limit. The spike recovery rates of all tested samples were within the recommended limit; however, there were some analytes with high spike recovery rates due to matrix interferences but should be accepted because the associated field samples had no detected concentrations.

The table below shows the RPDs for the field primary sample and its respective duplicate collected from sample location PSG-10A. The RPD values presented below indicate that the variability of benzene in passive soil vapor was higher than 20%. Because the concentrations were higher than the LOQ but lower than five times the LOQ and the absolute difference between the primary and duplicate samples is less than the LOQ, the limits for RPDs do not apply based on EPA guidelines[5].

| Analyte | PSG-10A | DUP-01 | RPD (%) | LOQ |
|---|---|---|---|---|
| Benzene | 3.46 | 2.79 | 21.4 | 2.19 |

**Notes:**
All concentrations in micrograms per cubic meter
% = percent
LOQ = Limit of quantitation
RPD = Relative percent difference

The table below shows the PRDs for the field primary and its respective duplicate collected from sample location PSG-62A. The PRD values presented below indicate that the variability of select compounds in passive soil vapor was higher than 20%. Concentrations of benzene, trichloroethene, tetrachloroethene, toluene, p & m-xylene, and o-xylene have an RPD greater than 20%, their concentrations are greater than five times the LOQ, and their absolute differences between primary and duplicate samples are greater than the LOQ. For these reasons, these results should be flagged as estimated (J). Concentrations of cis-1,2-dichloroethene, ethylbenzene, 1,3,5-trimethylbenzene, and total petroleum hydrocarbons C4-C9 in passive soil vapor exceed 20%, however, because the concentrations were higher than the LOQ but lower than five times the LOQ and the absolute difference between the primary and duplicate samples is less than the LOQ, the limits for RPDs do not apply based on EPA guidelines.

[5] USEPA. *National Functional Guidelines for Organic Superfund Method Data Review.* EPA 540-R-20-005.

| Analyte | PSG-62A | DUP-02 | RPD (%) | LOQ |
|---|---|---|---|---|
| Benzene | 18.4 | 5.29 | 111 | 2.23 |
| cis-1,2-Dichloroethene | 1.6 | <0.89 | 57 | 0.89 |
| TCE | 92.1 | 53.9 | 52.3 | 1.43 |
| Toluene | 16.8 | 4.56 | 115 | 2.95 |
| PCE | 54.6 | 21.8 | 85.9 | 1.15 |
| Ethylbenzene | 1.98 | <1.39 | 35 | 1.39 |
| p & m-Xylene | 5.12 | 2.23 | 78.6 | 1.34 |
| o-Xylene | 4.18 | 1.57 | 90.8 | 1.34 |
| 1,3,5-Trimethylbenzene | 5.25 | 4.2 | 22.2 | 1.42 |
| TPH C4-C9 | 763 | <400 | 62.4 | 400 |

**Notes:**
Yellow highlight = RPD and LOQ values exceed acceptable limits. Values should be considered estimates.
All concentrations in micrograms per cubic meter
% = percent
LOQ = Limit of quantitation
PCE = Tetrachloroethene
RPD = Relative percent difference
TCE = Trichloroethene
TPH = Total petroleum hydrocarbons

**Overall Assessment**

Based on high RPDs in samples PSG-62A and DUP-02, concentrations of benzene, benzene, trichloroethene, tetrachloroethene, toluene, p & m-xylene, and o-xylene should be qualified as estimates (J) for these samples.

There were no other issues identified that would require additional qualifiers for the data.

If you have any questions regarding this data validation report, please contact Michael Friedman at 415-967-6000.

Regards,

Michael Friedman, PG
Senior Geologist II

Beacon Environmental
526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 240216R01

Laboratory Work Order: 0007787

**Project Description:**
Former AB&I Foundry
Oakland, CA

Client PO No.: 1793.0030

Prepared for:
Josh Osborne
**Roux Associates, Inc.**
555 12th Street, Suite 250
Oakland, CA 94607

Ryan W. Schneider
Senior Project Manager

June 14, 2024

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017, except compounds reported with ∉ are not included in Beacon's scope of accreditation and all samples were analyzed within a 24-hour tune window. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Summary

| Lab Sample ID | Client Sample ID | Received | Analysis | Matrix |
|---|---|---|---|---|
| 0007787-01 | Trip-1 | 06/06/2024 | EPA 8260C | Air |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-02 | PSG-10A | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-03 | DUP-01 | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-04 | PSG-10B | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-05 | PSG-10C | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-06 | PSG-10D | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-07 | PSG-25A | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-08 | PSG-25B | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-09 | PSG-25C | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-10 | PSG-25D | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-11 | PSG-41A | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-12 | PSG-41B | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-13 | PSG-41C | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-14 | PSG-41D | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-15 | PSG-62A | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-16 | DUP-02 | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-17 | PSG-62B | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-18 | PSG-62C | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |
| 0007787-19 | PSG-62D | 06/06/2024 | EPA 8260C | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |

526 Underwood Lane
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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Project Completeness

**Samples Received:** 19
**Samples Analyzed:** 19

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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Case Narrative*

**U.S. EPA Method 8260C**

All samples were analyzed using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following U.S. EPA Method 8260C, with laboratory results provided in nanograms (ng) and micrograms per cubic meter ($\mu g/m^3$). Laboratory QA/QC procedures included internal standards, surrogates, and blanks based on EPA Method 8260C. Analyses and reporting were under BEACON's Quality Assurance Project Plan.

**Passive Soil-Gas Survey Notes**

If sample locations are covered with or near the edge of an impervious surface (*e.g.*, asphalt or concrete), the concentrations of compounds in soil gas are higher than if the surfacing was not present. Therefore, the sample location conditions should be considered when comparing results between locations.

Survey findings are exclusive to this project and when the spatial relationships are compared with results of other BEACON Surveys it is necessary to incorporate information from both investigations (*e.g.*, depth to sources, soil types, porosity, soil moisture, presence of impervious surfacing, sample collection times).

**Reporting Limits**

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of quantitation (LOQ) as noted in the data tables. Beacon determined uptake rates for a suite of compounds with the Beacon sampler for sampling in air. Beacon calculated the uptake rates for the remaining compounds using Graham's Law of Diffusion. The reported data includes LOQ limits.

**Project Details**

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017, except compounds reported with ∉ are not included in Beacon's scope of accreditation and samples were analyzed within a 24-hour tune window.

End of Case Narrative

526 Underwood Lane
Bel Air, MD 21014 USA
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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# *Analytical Results*

526 Underwood Lane
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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Mass*

Lab Sample ID 0007787-02 — **PSG-10A** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 32 | | 3.744 | 25 | C24060720.D |
| Trichloroethene | 79-01-6 | 16 | | 4.228 | 10 | C24060720.D |
| Tetrachloroethene | 127-18-4 | 169 | | 5.742 | 10 | C24060720.D |

Lab Sample ID 0007787-03 — **DUP-01** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 39 | | 3.738 | 25 | C24060721.D |
| Trichloroethene | 79-01-6 | 17 | | 4.228 | 10 | C24060721.D |
| Tetrachloroethene | 127-18-4 | 145 | | 5.742 | 10 | C24060721.D |

Lab Sample ID 0007787-04 — **PSG-10B** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 28 | | 3.735 | 25 | C24060722.D |
| Trichloroethene | 79-01-6 | 21 | | 4.222 | 10 | C24060722.D |
| Tetrachloroethene | 127-18-4 | 128 | | 5.742 | 10 | C24060722.D |
| p & m-Xylene | 179601-23-1 | 85 | | 6.649 | 25 | C24060722.D |
| o-Xylene | 95-47-6 | 39 | | 6.938 | 25 | C24060722.D |

Lab Sample ID 0007787-05 — **PSG-10C** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 54 | | 4.224 | 10 | C24060723.D |
| Tetrachloroethene | 127-18-4 | 915 | | 5.741 | 10 | C24060723.D |

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1.410.838.8780

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Mass*

Lab Sample ID 0007787-06 — **PSG-10D** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 49 | | 4.224 | 10 | C24060724.D |
| Tetrachloroethene | 127-18-4 | 191 | | 5.741 | 10 | C24060724.D |
| p & m-Xylene | 179601-23-1 | 43 | | 6.649 | 25 | C24060724.D |

Lab Sample ID 0007787-07 — **PSG-25A** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 162 | | 3.738 | 25 | C24060725.D |
| Toluene | 108-88-3 | 169 | | 5.302 | 25 | C24060725.D |
| Ethylbenzene | 100-41-4 | 28 | | 6.549 | 25 | C24060725.D |
| p & m-Xylene | 179601-23-1 | 106 | | 6.649 | 25 | C24060725.D |
| o-Xylene | 95-47-6 | 54 | | 6.938 | 25 | C24060725.D |
| ∉TPH C4-C9 | | 24,400 | | 4.94 | 5,000 | C24060725.D |

Lab Sample ID 0007787-08 — **PSG-25B** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 281 | | 3.741 | 25 | C24060726.D |
| Toluene | 108-88-3 | 304 | | 5.305 | 25 | C24060726.D |
| Tetrachloroethene | 127-18-4 | 16 | | 5.741 | 10 | C24060726.D |
| Ethylbenzene | 100-41-4 | 37 | | 6.552 | 25 | C24060726.D |
| p & m-Xylene | 179601-23-1 | 85 | | 6.649 | 25 | C24060726.D |
| o-Xylene | 95-47-6 | 47 | | 6.941 | 25 | C24060726.D |
| ∉TPH C4-C9 | | 131,000 | | 4.94 | 5,000 | C24060726.D |
| ∉TPH C10-C15 | | 98,800 | | 8.339 | 5,000 | C24060726.D |

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| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Mass*

Lab Sample ID 0007787-09 — **PSG-25C** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 97 | | 3.738 | 25 | C24060727.D |
| Toluene | 108-88-3 | 79 | | 5.302 | 25 | C24060727.D |
| Tetrachloroethene | 127-18-4 | 91 | | 5.742 | 10 | C24060727.D |
| p & m-Xylene | 179601-23-1 | 114 | | 6.649 | 25 | C24060727.D |
| o-Xylene | 95-47-6 | 54 | | 6.938 | 25 | C24060727.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | 31 | | 7.642 | 25 | C24060727.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | 104 | | 7.896 | 25 | C24060727.D |
| Naphthalene | 91-20-3 | 80 | | 9.583 | 25 | C24060727.D |
| 2-Methylnaphthalene | 91-57-6 | 35 | | 10.27 | 25 | C24060727.D |

Lab Sample ID 0007787-10 — **PSG-25D** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 88 | | 3.738 | 25 | C24060728.D |
| Trichloroethene | 79-01-6 | 17 | | 4.225 | 10 | C24060728.D |
| Toluene | 108-88-3 | 59 | | 5.302 | 25 | C24060728.D |
| Tetrachloroethene | 127-18-4 | 173 | | 5.742 | 10 | C24060728.D |
| p & m-Xylene | 179601-23-1 | 63 | | 6.649 | 25 | C24060728.D |
| o-Xylene | 95-47-6 | 44 | | 6.935 | 25 | C24060728.D |
| ≠TPH C4-C9 | | 30,200 | | 4.94 | 5,000 | C24060728.D |
| ≠TPH C10-C15 | | 15,500 | | 8.339 | 5,000 | C24060728.D |

Lab Sample ID 0007787-11 — **PSG-41A** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 71 | | 3.738 | 25 | C24060729.D |

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| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Mass*

Lab Sample ID 0007787-12 — **PSG-41B** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 67 | | 2.164 | 10 | C24060730.D |
| trans-1,2-Dichloroethene | 156-60-5 | 55 | | 2.566 | 10 | C24060730.D |
| cis-1,2-Dichloroethene | 156-59-2 | 289 | | 3.166 | 10 | C24060730.D |
| Benzene | 71-43-2 | 30 | | 3.741 | 25 | C24060730.D |
| Trichloroethene | 79-01-6 | 9,750 | | 4.225 | 10 | C24060730.D |
| Tetrachloroethene | 127-18-4 | 162 | | 5.742 | 10 | C24060730.D |

Lab Sample ID 0007787-13 — **PSG-41C** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 25 | | 2.164 | 10 | C24060731.D |
| trans-1,2-Dichloroethene | 156-60-5 | 30 | | 2.569 | 10 | C24060731.D |
| cis-1,2-Dichloroethene | 156-59-2 | 188 | | 3.166 | 10 | C24060731.D |
| Benzene | 71-43-2 | 30 | | 3.738 | 25 | C24060731.D |
| Trichloroethene | 79-01-6 | 4,820 | | 4.225 | 10 | C24060731.D |

Lab Sample ID 0007787-14 — **PSG-41D** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 130 | | 2.164 | 10 | C24060732.D |
| trans-1,2-Dichloroethene | 156-60-5 | 67 | | 2.569 | 10 | C24060732.D |
| cis-1,2-Dichloroethene | 156-59-2 | 367 | | 3.166 | 10 | C24060732.D |
| Benzene | 71-43-2 | 51 | | 3.738 | 25 | C24060732.D |
| Trichloroethene | 79-01-6 | 37,600 | D | 4.224 | 191 | C24061005.D |
| Tetrachloroethene | 127-18-4 | 14 | | 5.742 | 10 | C24060732.D |

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| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Mass*

Lab Sample ID 0007787-15 — **PSG-62A** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 156-59-2 | 18 | | 3.163 | 10 | C24060733.D |
| Benzene | 71-43-2 | 206 | | 3.741 | 25 | C24060733.D |
| Trichloroethene | 79-01-6 | 644 | | 4.225 | 10 | C24060733.D |
| Toluene | 108-88-3 | 142 | | 5.302 | 25 | C24060733.D |
| Tetrachloroethene | 127-18-4 | 474 | | 5.742 | 10 | C24060733.D |
| Ethylbenzene | 100-41-4 | 36 | | 6.552 | 25 | C24060733.D |
| p & m-Xylene | 179601-23-1 | 96 | | 6.649 | 25 | C24060733.D |
| o-Xylene | 95-47-6 | 78 | | 6.938 | 25 | C24060733.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | 92 | | 7.642 | 25 | C24060733.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | 167 | | 7.896 | 25 | C24060733.D |
| 1,4-Dichlorobenzene | 106-46-7 | 28 | | 8.147 | 10 | C24060733.D |
| 1,2-Dichlorobenzene | 95-50-1 | 62 | | 8.383 | 10 | C24060733.D |
| Naphthalene | 91-20-3 | 17,800 | D | 9.583 | 8,550 | C24061010.D |
| 2-Methylnaphthalene | 91-57-6 | 13,400 | D | 10.273 | 476 | C24061006.D |
| ∉TPH C4-C9 | | 9,540 | | 4.94 | 5,000 | C24060733.D |
| ∉TPH C10-C15 | | 23,600 | | 8.339 | 5,000 | C24060733.D |

Lab Sample ID 0007787-16 — **DUP-02** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 59 | | 3.738 | 25 | C24060734.D |
| Trichloroethene | 79-01-6 | 377 | | 4.225 | 10 | C24060734.D |
| Toluene | 108-88-3 | 39 | | 5.302 | 25 | C24060734.D |
| Tetrachloroethene | 127-18-4 | 189 | | 5.742 | 10 | C24060734.D |
| p & m-Xylene | 179601-23-1 | 42 | | 6.649 | 25 | C24060734.D |
| o-Xylene | 95-47-6 | 29 | | 6.938 | 25 | C24060734.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | 74 | | 7.642 | 25 | C24060734.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | 144 | | 7.896 | 25 | C24060734.D |
| 1,4-Dichlorobenzene | 106-46-7 | 26 | | 8.147 | 10 | C24060734.D |
| 1,2-Dichlorobenzene | 95-50-1 | 53 | | 8.38 | 10 | C24060734.D |
| Naphthalene | 91-20-3 | 20,500 | D | 9.582 | 8,550 | C24061011.D |
| 2-Methylnaphthalene | 91-57-6 | 15,500 | D | 10.274 | 476 | C24061007.D |
| ∉TPH C10-C15 | | 24,300 | | 8.339 | 5,000 | C24060734.D |

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| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Mass*

Lab Sample ID 0007787-17 — **PSG-62B** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 22 | | 2.161 | 10 | C24060735.D |
| trans-1,2-Dichloroethene | 156-60-5 | 167 | | 2.566 | 10 | C24060735.D |
| cis-1,2-Dichloroethene | 156-59-2 | 299 | | 3.166 | 10 | C24060735.D |
| Benzene | 71-43-2 | 32 | | 3.738 | 25 | C24060735.D |
| Trichloroethene | 79-01-6 | 2,410 | | 4.225 | 10 | C24060735.D |
| 1,4-Dioxane | 123-91-1 | 14 | | 4.479 | 10 | C24060735.D |
| Tetrachloroethene | 127-18-4 | 32 | | 5.742 | 10 | C24060735.D |
| p & m-Xylene | 179601-23-1 | 42 | | 6.649 | 25 | C24060735.D |
| Naphthalene | 91-20-3 | 279 | | 9.583 | 25 | C24060735.D |
| 2-Methylnaphthalene | 91-57-6 | 119 | | 10.27 | 25 | C24060735.D |
| ≠TPH C4-C9 | | 8,470 | | 4.94 | 5,000 | C24060735.D |

Lab Sample ID 0007787-18 — **PSG-62C** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 156-59-2 | 22 | | 3.163 | 10 | C24060736.D |
| Benzene | 71-43-2 | 53 | | 3.741 | 25 | C24060736.D |
| Trichloroethene | 79-01-6 | 1,040 | | 4.225 | 10 | C24060736.D |
| 1,4-Dioxane | 123-91-1 | 13 | | 4.479 | 10 | C24060736.D |
| Toluene | 108-88-3 | 33 | | 5.299 | 25 | C24060736.D |
| Tetrachloroethene | 127-18-4 | 24 | | 5.742 | 10 | C24060736.D |
| Naphthalene | 91-20-3 | 121 | | 9.583 | 25 | C24060736.D |
| 2-Methylnaphthalene | 91-57-6 | 40 | | 10.274 | 25 | C24060736.D |

Lab Sample ID 0007787-19 — **PSG-62D** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | RT | LOQ (ng) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 118 | | 2.164 | 10 | C24060737.D |
| trans-1,2-Dichloroethene | 156-60-5 | 118 | | 2.566 | 10 | C24060737.D |
| cis-1,2-Dichloroethene | 156-59-2 | 523 | | 3.166 | 10 | C24060737.D |
| Benzene | 71-43-2 | 95 | | 3.738 | 25 | C24060737.D |
| Trichloroethene | 79-01-6 | 45,000 | D | 4.225 | 191 | C24061008.D |
| Toluene | 108-88-3 | 48 | | 5.302 | 25 | C24060737.D |
| Tetrachloroethene | 127-18-4 | 2,610 | | 5.741 | 10 | C24060737.D |

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| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Concentration*

Lab Sample ID 0007787-02 — **PSG-10A** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 2.79 | | 3.744 | 2.19 | C24060720.D |
| Trichloroethene | 79-01-6 | 2.22 | | 4.228 | 1.41 | C24060720.D |
| Tetrachloroethene | 127-18-4 | 19.1 | | 5.742 | 1.13 | C24060720.D |

Lab Sample ID 0007787-03 — **DUP-01** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 3.46 | | 3.738 | 2.19 | C24060721.D |
| Trichloroethene | 79-01-6 | 2.40 | | 4.228 | 1.41 | C24060721.D |
| Tetrachloroethene | 127-18-4 | 16.5 | | 5.742 | 1.13 | C24060721.D |

Lab Sample ID 0007787-04 — **PSG-10B** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 2.43 | | 3.735 | 2.21 | C24060722.D |
| Trichloroethene | 79-01-6 | 2.95 | | 4.222 | 1.42 | C24060722.D |
| Tetrachloroethene | 127-18-4 | 14.6 | | 5.742 | 1.14 | C24060722.D |
| p & m-Xylene | 179601-23-1 | 4.53 | | 6.649 | 1.33 | C24060722.D |
| o-Xylene | 95-47-6 | 2.08 | | 6.938 | 1.33 | C24060722.D |

Lab Sample ID 0007787-05 — **PSG-10C** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 7.58 | | 4.224 | 1.40 | C24060723.D |
| Tetrachloroethene | 127-18-4 | 103 | | 5.741 | 1.13 | C24060723.D |

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## *Summary of Compound Detections- Concentration*

Lab Sample ID 0007787-06 — **PSG-10D** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 6.90 | | 4.224 | 1.42 | C24060724.D |
| Tetrachloroethene | 127-18-4 | 21.8 | | 5.741 | 1.14 | C24060724.D |
| p & m-Xylene | 179601-23-1 | 2.26 | | 6.649 | 1.33 | C24060724.D |

Lab Sample ID 0007787-07 — **PSG-25A** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 14.3 | | 3.738 | 2.22 | C24060725.D |
| Toluene | 108-88-3 | 19.8 | | 5.302 | 2.94 | C24060725.D |
| Ethylbenzene | 100-41-4 | 1.57 | | 6.549 | 1.38 | C24060725.D |
| p & m-Xylene | 179601-23-1 | 5.67 | | 6.649 | 1.34 | C24060725.D |
| o-Xylene | 95-47-6 | 2.90 | | 6.938 | 1.34 | C24060725.D |
| ∉TPH C4-C9 | | 1,940 | | 4.94 | 398 | C24060725.D |

Lab Sample ID 0007787-08 — **PSG-25B** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 25.0 | | 3.741 | 2.22 | C24060726.D |
| Toluene | 108-88-3 | 35.7 | | 5.305 | 2.94 | C24060726.D |
| Tetrachloroethene | 127-18-4 | 1.88 | | 5.741 | 1.15 | C24060726.D |
| Ethylbenzene | 100-41-4 | 2.07 | | 6.552 | 1.38 | C24060726.D |
| p & m-Xylene | 179601-23-1 | 4.52 | | 6.649 | 1.34 | C24060726.D |
| o-Xylene | 95-47-6 | 2.50 | | 6.941 | 1.34 | C24060726.D |
| ∉TPH C4-C9 | | 10,400 | | 4.94 | 398 | C24060726.D |
| ∉TPH C10-C15 | | 6,730 | | 8.339 | 341 | C24060726.D |

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## *Summary of Compound Detections- Concentration*

Lab Sample ID 0007787-09 — **PSG-25C** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 8.57 | | 3.738 | 2.21 | C24060727.D |
| Toluene | 108-88-3 | 9.23 | | 5.302 | 2.93 | C24060727.D |
| Tetrachloroethene | 127-18-4 | 10.4 | | 5.742 | 1.15 | C24060727.D |
| p & m-Xylene | 179601-23-1 | 6.06 | | 6.649 | 1.33 | C24060727.D |
| o-Xylene | 95-47-6 | 2.90 | | 6.938 | 1.33 | C24060727.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1.77 | | 7.642 | 1.41 | C24060727.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5.86 | | 7.896 | 1.41 | C24060727.D |
| Naphthalene | 91-20-3 | 4.71 | | 9.583 | 1.47 | C24060727.D |
| 2-Methylnaphthalene | 91-57-6 | 2.17 | | 10.27 | 1.54 | C24060727.D |

Lab Sample ID 0007787-10 — **PSG-25D** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 7.75 | | 3.738 | 2.21 | C24060728.D |
| Trichloroethene | 79-01-6 | 2.47 | | 4.225 | 1.42 | C24060728.D |
| Toluene | 108-88-3 | 6.86 | | 5.302 | 2.93 | C24060728.D |
| Tetrachloroethene | 127-18-4 | 19.8 | | 5.742 | 1.14 | C24060728.D |
| p & m-Xylene | 179601-23-1 | 3.35 | | 6.649 | 1.33 | C24060728.D |
| o-Xylene | 95-47-6 | 2.37 | | 6.935 | 1.33 | C24060728.D |
| ≠TPH C4-C9 | | 2,400 | | 4.94 | 397 | C24060728.D |
| ≠TPH C10-C15 | | 1,060 | | 8.339 | 340 | C24060728.D |

Lab Sample ID 0007787-11 — **PSG-41A** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 6.23 | | 3.738 | 2.18 | C24060729.D |

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## *Summary of Compound Detections- Concentration*

Lab Sample ID 0007787-12 — **PSG-41B** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 9.41 | | 2.164 | 1.40 | C24060730.D |
| trans-1,2-Dichloroethene | 156-60-5 | 5.74 | | 2.566 | 1.05 | C24060730.D |
| cis-1,2-Dichloroethene | 156-59-2 | 25.2 | | 3.166 | 0.87 | C24060730.D |
| Benzene | 71-43-2 | 2.62 | | 3.741 | 2.18 | C24060730.D |
| Trichloroethene | 79-01-6 | 1,370 | | 4.225 | 1.40 | C24060730.D |
| Tetrachloroethene | 127-18-4 | 18.3 | | 5.742 | 1.13 | C24060730.D |

Lab Sample ID 0007787-13 — **PSG-41C** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 3.50 | | 2.164 | 1.40 | C24060731.D |
| trans-1,2-Dichloroethene | 156-60-5 | 3.19 | | 2.569 | 1.05 | C24060731.D |
| cis-1,2-Dichloroethene | 156-59-2 | 16.5 | | 3.166 | 0.87 | C24060731.D |
| Benzene | 71-43-2 | 2.61 | | 3.738 | 2.19 | C24060731.D |
| Trichloroethene | 79-01-6 | 677 | | 4.225 | 1.40 | C24060731.D |

Lab Sample ID 0007787-14 — **PSG-41D** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 18.2 | | 2.164 | 1.41 | C24060732.D |
| trans-1,2-Dichloroethene | 156-60-5 | 7.02 | | 2.569 | 1.05 | C24060732.D |
| cis-1,2-Dichloroethene | 156-59-2 | 32.1 | | 3.166 | 0.88 | C24060732.D |
| Benzene | 71-43-2 | 4.48 | | 3.738 | 2.19 | C24060732.D |
| Trichloroethene | 79-01-6 | 5,280 | D | 4.224 | 26.8 | C24061005.D |
| Tetrachloroethene | 127-18-4 | 1.54 | | 5.742 | 1.13 | C24060732.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Concentration*

Lab Sample ID 0007787-15 — **PSG-62A** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 156-59-2 | 1.60 | | 3.163 | 0.89 | C24060733.D |
| Benzene | 71-43-2 | 18.4 | | 3.741 | 2.23 | C24060733.D |
| Trichloroethene | 79-01-6 | 92.1 | | 4.225 | 1.43 | C24060733.D |
| Toluene | 108-88-3 | 16.8 | | 5.302 | 2.95 | C24060733.D |
| Tetrachloroethene | 127-18-4 | 54.6 | | 5.742 | 1.15 | C24060733.D |
| Ethylbenzene | 100-41-4 | 1.98 | | 6.552 | 1.39 | C24060733.D |
| p & m-Xylene | 179601-23-1 | 5.12 | | 6.649 | 1.34 | C24060733.D |
| o-Xylene | 95-47-6 | 4.18 | | 6.938 | 1.34 | C24060733.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5.25 | | 7.642 | 1.42 | C24060733.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | 9.50 | | 7.896 | 1.42 | C24060733.D |
| 1,4-Dichlorobenzene | 106-46-7 | 1.79 | | 8.147 | 0.63 | C24060733.D |
| 1,2-Dichlorobenzene | 95-50-1 | 3.93 | | 8.383 | 0.63 | C24060733.D |
| Naphthalene | 91-20-3 | 1,050 | D | 9.583 | 505 | C24061010.D |
| 2-Methylnaphthalene | 91-57-6 | 832 | D | 10.273 | 29.6 | C24061006.D |
| ∉TPH C4-C9 | | 763 | | 4.94 | 400 | C24060733.D |
| ∉TPH C10-C15 | | 1,610 | | 8.339 | 342 | C24060733.D |

Lab Sample ID 0007787-16 — **DUP-02** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 5.29 | | 3.738 | 2.23 | C24060734.D |
| Trichloroethene | 79-01-6 | 53.9 | | 4.225 | 1.43 | C24060734.D |
| Toluene | 108-88-3 | 4.56 | | 5.302 | 2.95 | C24060734.D |
| Tetrachloroethene | 127-18-4 | 21.8 | | 5.742 | 1.15 | C24060734.D |
| p & m-Xylene | 179601-23-1 | 2.23 | | 6.649 | 1.34 | C24060734.D |
| o-Xylene | 95-47-6 | 1.57 | | 6.938 | 1.34 | C24060734.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | 4.20 | | 7.642 | 1.42 | C24060734.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | 8.21 | | 7.896 | 1.42 | C24060734.D |
| 1,4-Dichlorobenzene | 106-46-7 | 1.64 | | 8.147 | 0.63 | C24060734.D |
| 1,2-Dichlorobenzene | 95-50-1 | 3.34 | | 8.38 | 0.63 | C24060734.D |
| Naphthalene | 91-20-3 | 1,210 | D | 9.582 | 505 | C24061011.D |
| 2-Methylnaphthalene | 91-57-6 | 964 | D | 10.274 | 29.6 | C24061007.D |
| ∉TPH C10-C15 | | 1,660 | | 8.339 | 342 | C24060734.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Summary of Compound Detections- Concentration*

Lab Sample ID 0007787-17 — **PSG-62B** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 3.16 | | 2.161 | 1.43 | C24060735.D |
| trans-1,2-Dichloroethene | 156-60-5 | 17.9 | | 2.566 | 1.07 | C24060735.D |
| cis-1,2-Dichloroethene | 156-59-2 | 26.6 | | 3.166 | 0.89 | C24060735.D |
| Benzene | 71-43-2 | 2.87 | | 3.738 | 2.23 | C24060735.D |
| Trichloroethene | 79-01-6 | 344 | | 4.225 | 1.43 | C24060735.D |
| 1,4-Dioxane | 123-91-1 | 1.56 | | 4.479 | 1.15 | C24060735.D |
| Tetrachloroethene | 127-18-4 | 3.71 | | 5.742 | 1.15 | C24060735.D |
| p & m-Xylene | 179601-23-1 | 2.27 | | 6.649 | 1.34 | C24060735.D |
| Naphthalene | 91-20-3 | 16.5 | | 9.583 | 1.48 | C24060735.D |
| 2-Methylnaphthalene | 91-57-6 | 7.40 | | 10.27 | 1.55 | C24060735.D |
| ≠TPH C4-C9 | | 678 | | 4.94 | 400 | C24060735.D |

Lab Sample ID 0007787-18 — **PSG-62C** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 156-59-2 | 1.97 | | 3.163 | 0.89 | C24060736.D |
| Benzene | 71-43-2 | 4.69 | | 3.741 | 2.23 | C24060736.D |
| Trichloroethene | 79-01-6 | 149 | | 4.225 | 1.43 | C24060736.D |
| 1,4-Dioxane | 123-91-1 | 1.46 | | 4.479 | 1.15 | C24060736.D |
| Toluene | 108-88-3 | 3.94 | | 5.299 | 2.95 | C24060736.D |
| Tetrachloroethene | 127-18-4 | 2.80 | | 5.742 | 1.15 | C24060736.D |
| Naphthalene | 91-20-3 | 7.13 | | 9.583 | 1.48 | C24060736.D |
| 2-Methylnaphthalene | 91-57-6 | 2.52 | | 10.274 | 1.55 | C24060736.D |

Lab Sample ID 0007787-19 — **PSG-62D** — Soil Gas — Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | RT | LOQ (µg/m³) | File ID |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 75-35-4 | 16.9 | | 2.164 | 1.43 | C24060737.D |
| trans-1,2-Dichloroethene | 156-60-5 | 12.6 | | 2.566 | 1.07 | C24060737.D |
| cis-1,2-Dichloroethene | 156-59-2 | 46.6 | | 3.166 | 0.89 | C24060737.D |
| Benzene | 71-43-2 | 8.47 | | 3.738 | 2.23 | C24060737.D |
| Trichloroethene | 79-01-6 | 6,440 | D | 4.225 | 27.3 | C24061008.D |
| Toluene | 108-88-3 | 5.70 | | 5.302 | 2.95 | C24060737.D |
| Tetrachloroethene | 127-18-4 | 301 | | 5.741 | 1.15 | C24060737.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Data Summary Table- Mass*

| Compound | Frequency | LOQ (ng) | Max Value (ng) |
|---|---|---|---|
| 1,1-Dichloroethene | 5 | 10 | 130 |
| trans-1,2-Dichloroethene | 5 | 10 | 167 |
| cis-1,2-Dichloroethene | 7 | 10 | 523 |
| Benzene | 14 | 25 | 281 |
| Trichloroethene | 12 | 10 | 45,000 |
| 1,4-Dioxane | 2 | 10 | 14 |
| Toluene | 7 | 25 | 304 |
| Tetrachloroethene | 13 | 10 | 2,610 |
| Ethylbenzene | 3 | 25 | 37 |
| p & m-Xylene | 8 | 25 | 114 |
| o-Xylene | 6 | 25 | 78 |
| 1,3,5-Trimethylbenzene | 2 | 25 | 92 |
| 1,2,4-Trimethylbenzene | 2 | 25 | 167 |
| 1,4-Dichlorobenzene | 1 | 10 | 28 |
| 1,2-Dichlorobenzene | 1 | 10 | 62 |
| Naphthalene | 4 | 25 | 17,800 |
| 2-Methylnaphthalene | 4 | 25 | 13,400 |
| TPH C4-C9 | 5 | 5,000 | 131,000 |
| TPH C10-C15 | 3 | 5,000 | 98,800 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Data Summary Table- Concentration*

| Compound | Frequency | LOQ (µg/m³) | Max Value (µg/m³) |
|---|---|---|---|
| 1,1-Dichloroethene | 5 | 1.40 | 18.2 |
| trans-1,2-Dichloroethene | 5 | 1.05 | 17.9 |
| cis-1,2-Dichloroethene | 7 | 0.870 | 46.6 |
| Benzene | 14 | 2.18 | 25.0 |
| Trichloroethene | 12 | 1.40 | 6,440 |
| 1,4-Dioxane | 2 | 1.15 | 1.56 |
| Toluene | 7 | 2.93 | 35.7 |
| Tetrachloroethene | 13 | 1.13 | 301 |
| Ethylbenzene | 3 | 1.38 | 2.07 |
| p & m-Xylene | 8 | 1.33 | 6.06 |
| o-Xylene | 6 | 1.33 | 4.18 |
| 1,3,5-Trimethylbenzene | 2 | 1.41 | 5.25 |
| 1,2,4-Trimethylbenzene | 2 | 1.41 | 9.50 |
| 1,4-Dichlorobenzene | 1 | 0.630 | 1.79 |
| 1,2-Dichlorobenzene | 1 | 0.630 | 3.93 |
| Naphthalene | 4 | 1.47 | 1,050 |
| 2-Methylnaphthalene | 4 | 1.54 | 832 |
| TPH C4-C9 | 5 | 397 | 10,400 |
| TPH C10-C15 | 3 | 340 | 6,730 |

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| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# *Detailed Analytical Results*

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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# *Detailed Analytical Results- Mass*

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-01

## Trip-1

Air

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Benzene | 71-43-2 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| Trichloroethene | 79-01-6 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/07/2024 23:33 | C24060719.D |
| Tetrachloroethene | 127-18-4 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/07/2024 23:33 | C24060719.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/07/2024 23:33 | C24060719.D |
| ∉ TPH C4-C9 | | <5,000 | | 5,000 | 06/07/2024 23:33 | C24060719.D |
| ∉ TPH C10-C15 | | <5,000 | | 5,000 | 06/07/2024 23:33 | C24060719.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *120%* | *70-130* | | *06/07/2024 23:33* | *C24060719.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *90.4%* | *70-130* | | *06/07/2024 23:33* | *C24060719.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *105%* | *70-130* | | *06/07/2024 23:33* | *C24060719.D* |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-02

## PSG-10A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| **Benzene** | 71-43-2 | **32** | | 25 | 06/08/2024 00:04 | C24060720.D |
| **Trichloroethene** | 79-01-6 | **16** | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 00:04 | C24060720.D |
| **Tetrachloroethene** | 127-18-4 | **169** | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 00:04 | C24060720.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 00:04 | C24060720.D |
| ∈ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 00:04 | C24060720.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 00:04 | C24060720.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *103%* | *70-130* | | *06/08/2024 00:04* | *C24060720.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *94.6%* | *70-130* | | *06/08/2024 00:04* | *C24060720.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *108%* | *70-130* | | *06/08/2024 00:04* | *C24060720.D* |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-03

## DUP-01

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| **Benzene** | 71-43-2 | **39** | | 25 | 06/08/2024 00:36 | C24060721.D |
| **Trichloroethene** | 79-01-6 | **17** | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 00:36 | C24060721.D |
| **Tetrachloroethene** | 127-18-4 | **145** | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 00:36 | C24060721.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 00:36 | C24060721.D |
| ∈ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 00:36 | C24060721.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 00:36 | C24060721.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *99.0%* | *70-130* | | *06/08/2024 00:36* | *C24060721.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *92.0%* | *70-130* | | *06/08/2024 00:36* | *C24060721.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *113%* | *70-130* | | *06/08/2024 00:36* | *C24060721.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-04

## PSG-10B

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 01:09 | C24060722.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| **Benzene** | 71-43-2 | **28** | | 25 | 06/08/2024 01:09 | C24060722.D |
| **Trichloroethene** | 79-01-6 | **21** | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 01:09 | C24060722.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 01:09 | C24060722.D |
| **Tetrachloroethene** | 127-18-4 | **128** | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 01:09 | C24060722.D |
| **p & m-Xylene** | 179601-23-1 | **85** | | 25 | 06/08/2024 01:09 | C24060722.D |
| **o-Xylene** | 95-47-6 | **39** | | 25 | 06/08/2024 01:09 | C24060722.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 01:09 | C24060722.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 01:09 | C24060722.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 01:09 | C24060722.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 01:09 | C24060722.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 01:09 | C24060722.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 01:09 | C24060722.D |
| ∉ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 01:09 | C24060722.D |
| ∉ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 01:09 | C24060722.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *99.1%* | *70-130* | | *06/08/2024 01:09* | *C24060722.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *120%* | *70-130* | | *06/08/2024 01:09* | *C24060722.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *119%* | *70-130* | | *06/08/2024 01:09* | *C24060722.D* |

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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-05

## PSG-10C

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Benzene | 71-43-2 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| **Trichloroethene** | 79-01-6 | **54** | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 01:41 | C24060723.D |
| **Tetrachloroethene** | 127-18-4 | **915** | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 01:41 | C24060723.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 01:41 | C24060723.D |
| ∉ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 01:41 | C24060723.D |
| ∉ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 01:41 | C24060723.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *102%* | *70-130* | | *06/08/2024 01:41* | *C24060723.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *93.2%* | *70-130* | | *06/08/2024 01:41* | *C24060723.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *110%* | *70-130* | | *06/08/2024 01:41* | *C24060723.D* |

BEACON ENVIRONMENTAL

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-06

## PSG-10D

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Benzene | 71-43-2 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| **Trichloroethene** | 79-01-6 | **49** | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 02:15 | C24060724.D |
| **Tetrachloroethene** | 127-18-4 | **191** | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| **p & m-Xylene** | 179601-23-1 | **43** | | 25 | 06/08/2024 02:15 | C24060724.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 02:15 | C24060724.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 02:15 | C24060724.D |
| ∈ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 02:15 | C24060724.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 02:15 | C24060724.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *98.6%* | *70-130* | | *06/08/2024 02:15* | *C24060724.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *108%* | *70-130* | | *06/08/2024 02:15* | *C24060724.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *112%* | *70-130* | | *06/08/2024 02:15* | *C24060724.D* |

BEACON ENVIRONMENTAL

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Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-07

## PSG-25A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 02:47 | C24060725.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| **Benzene** | 71-43-2 | **162** | | 25 | 06/08/2024 02:47 | C24060725.D |
| Trichloroethene | 79-01-6 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| **Toluene** | 108-88-3 | **169** | | 25 | 06/08/2024 02:47 | C24060725.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 02:47 | C24060725.D |
| Tetrachloroethene | 127-18-4 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| **Ethylbenzene** | 100-41-4 | **28** | | 25 | 06/08/2024 02:47 | C24060725.D |
| **p & m-Xylene** | 179601-23-1 | **106** | | 25 | 06/08/2024 02:47 | C24060725.D |
| **o-Xylene** | 95-47-6 | **54** | | 25 | 06/08/2024 02:47 | C24060725.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 02:47 | C24060725.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 02:47 | C24060725.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 02:47 | C24060725.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 02:47 | C24060725.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 02:47 | C24060725.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 02:47 | C24060725.D |
| ∈ **TPH C4-C9** | | **24,400** | | 5,000 | 06/08/2024 02:47 | C24060725.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 02:47 | C24060725.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *115%* | *70-130* | | *06/08/2024 02:47* | *C24060725.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *194%* | *70-130* | *S4* | *06/08/2024 02:47* | *C24060725.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *118%* | *70-130* | | *06/08/2024 02:47* | *C24060725.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-08

## PSG-25B

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 03:20 | C24060726.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| **Benzene** | 71-43-2 | **281** | | 25 | 06/08/2024 03:20 | C24060726.D |
| Trichloroethene | 79-01-6 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| **Toluene** | 108-88-3 | **304** | | 25 | 06/08/2024 03:20 | C24060726.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 03:20 | C24060726.D |
| **Tetrachloroethene** | 127-18-4 | **16** | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| **Ethylbenzene** | 100-41-4 | **37** | | 25 | 06/08/2024 03:20 | C24060726.D |
| **p & m-Xylene** | 179601-23-1 | **85** | | 25 | 06/08/2024 03:20 | C24060726.D |
| **o-Xylene** | 95-47-6 | **47** | | 25 | 06/08/2024 03:20 | C24060726.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 03:20 | C24060726.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 03:20 | C24060726.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 03:20 | C24060726.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 03:20 | C24060726.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 03:20 | C24060726.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 03:20 | C24060726.D |
| ⋐ **TPH C4-C9** | | **131,000** | | 5,000 | 06/08/2024 03:20 | C24060726.D |
| ⋐ **TPH C10-C15** | | **98,800** | | 5,000 | 06/08/2024 03:20 | C24060726.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *89.5%* | *70-130* | | *06/08/2024 03:20* | *C24060726.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *584%* | *70-130* | *S4* | *06/08/2024 03:20* | *C24060726.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *148%* | *70-130* | *S4* | *06/08/2024 03:20* | *C24060726.D* |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-09

## PSG-25C

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 03:52 | C24060727.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| **Benzene** | 71-43-2 | **97** | | 25 | 06/08/2024 03:52 | C24060727.D |
| Trichloroethene | 79-01-6 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| **Toluene** | 108-88-3 | **79** | | 25 | 06/08/2024 03:52 | C24060727.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 03:52 | C24060727.D |
| **Tetrachloroethene** | 127-18-4 | **91** | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 03:52 | C24060727.D |
| **p & m-Xylene** | 179601-23-1 | **114** | | 25 | 06/08/2024 03:52 | C24060727.D |
| **o-Xylene** | 95-47-6 | **54** | | 25 | 06/08/2024 03:52 | C24060727.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 03:52 | C24060727.D |
| **1,3,5-Trimethylbenzene** | 108-67-8 | **31** | | 25 | 06/08/2024 03:52 | C24060727.D |
| **1,2,4-Trimethylbenzene** | 95-63-6 | **104** | | 25 | 06/08/2024 03:52 | C24060727.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| **Naphthalene** | 91-20-3 | **80** | | 25 | 06/08/2024 03:52 | C24060727.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 03:52 | C24060727.D |
| **2-Methylnaphthalene** | 91-57-6 | **35** | | 25 | 06/08/2024 03:52 | C24060727.D |
| ∈ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 03:52 | C24060727.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 03:52 | C24060727.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *88.0%* | *70-130* | | *06/08/2024 03:52* | *C24060727.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *97.7%* | *70-130* | | *06/08/2024 03:52* | *C24060727.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *123%* | *70-130* | | *06/08/2024 03:52* | *C24060727.D* |

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1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-10

## PSG-25D

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 04:24 | C24060728.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| **Benzene** | 71-43-2 | **88** | | 25 | 06/08/2024 04:24 | C24060728.D |
| **Trichloroethene** | 79-01-6 | **17** | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| **Toluene** | 108-88-3 | **59** | | 25 | 06/08/2024 04:24 | C24060728.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 04:24 | C24060728.D |
| **Tetrachloroethene** | 127-18-4 | **173** | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 04:24 | C24060728.D |
| **p & m-Xylene** | 179601-23-1 | **63** | | 25 | 06/08/2024 04:24 | C24060728.D |
| **o-Xylene** | 95-47-6 | **44** | | 25 | 06/08/2024 04:24 | C24060728.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 04:24 | C24060728.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 04:24 | C24060728.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 04:24 | C24060728.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 04:24 | C24060728.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 04:24 | C24060728.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 04:24 | C24060728.D |
| ⋐ **TPH C4-C9** | | **30,200** | | 5,000 | 06/08/2024 04:24 | C24060728.D |
| ⋐ **TPH C10-C15** | | **15,500** | | 5,000 | 06/08/2024 04:24 | C24060728.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *94.4%* | *70-130* | | *06/08/2024 04:24* | *C24060728.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *106%* | *70-130* | | *06/08/2024 04:24* | *C24060728.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *123%* | *70-130* | | *06/08/2024 04:24* | *C24060728.D* |

BEACON ENVIRONMENTAL

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Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-11

## PSG-41A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| **Benzene** | 71-43-2 | **71** | | 25 | 06/08/2024 04:58 | C24060729.D |
| Trichloroethene | 79-01-6 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 04:58 | C24060729.D |
| Tetrachloroethene | 127-18-4 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 04:58 | C24060729.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 04:58 | C24060729.D |
| ∈ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 04:58 | C24060729.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 04:58 | C24060729.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *88.9%* | *70-130* | | *06/08/2024 04:58* | *C24060729.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *102%* | *70-130* | | *06/08/2024 04:58* | *C24060729.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *121%* | *70-130* | | *06/08/2024 04:58* | *C24060729.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-12

## PSG-41B

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| **1,1-Dichloroethene** | 75-35-4 | **67** | | 10 | 06/08/2024 05:30 | C24060730.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **55** | | 10 | 06/08/2024 05:30 | C24060730.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **289** | | 10 | 06/08/2024 05:30 | C24060730.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| **Benzene** | 71-43-2 | **30** | | 25 | 06/08/2024 05:30 | C24060730.D |
| **Trichloroethene** | 79-01-6 | **9,750** | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 05:30 | C24060730.D |
| **Tetrachloroethene** | 127-18-4 | **162** | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 05:30 | C24060730.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 05:30 | C24060730.D |
| ∈ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 05:30 | C24060730.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 05:30 | C24060730.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *84.6%* | *70-130* | | *06/08/2024 05:30* | *C24060730.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *97.0%* | *70-130* | | *06/08/2024 05:30* | *C24060730.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *115%* | *70-130* | | *06/08/2024 05:30* | *C24060730.D* |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-13

## PSG-41C

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| **1,1-Dichloroethene** | 75-35-4 | **25** | | 10 | 06/08/2024 06:03 | C24060731.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **30** | | 10 | 06/08/2024 06:03 | C24060731.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **188** | | 10 | 06/08/2024 06:03 | C24060731.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| **Benzene** | 71-43-2 | **30** | | 25 | 06/08/2024 06:03 | C24060731.D |
| **Trichloroethene** | 79-01-6 | **4,820** | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 06:03 | C24060731.D |
| Tetrachloroethene | 127-18-4 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 06:03 | C24060731.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 06:03 | C24060731.D |
| ∈ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 06:03 | C24060731.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 06:03 | C24060731.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *87.0%* | *70-130* | | *06/08/2024 06:03* | *C24060731.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *94.4%* | *70-130* | | *06/08/2024 06:03* | *C24060731.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *115%* | *70-130* | | *06/08/2024 06:03* | *C24060731.D* |

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Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-14

## PSG-41D

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| **1,1-Dichloroethene** | 75-35-4 | **130** | | 10 | 06/08/2024 06:35 | C24060732.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **67** | | 10 | 06/08/2024 06:35 | C24060732.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **367** | | 10 | 06/08/2024 06:35 | C24060732.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| **Benzene** | 71-43-2 | **51** | | 25 | 06/08/2024 06:35 | C24060732.D |
| **Trichloroethene** | 79-01-6 | **37,600** | D | 191 | 06/10/2024 15:49 | C24061005.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 06:35 | C24060732.D |
| **Tetrachloroethene** | 127-18-4 | **14** | | 10 | 06/08/2024 06:35 | C24060732.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 06:35 | C24060732.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 06:35 | C24060732.D |
| ∉ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 06:35 | C24060732.D |
| ∉ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 06:35 | C24060732.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *103%* | *70-130* | | *06/10/2024 15:49* | *C24061005.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *92.2%* | *70-130* | | *06/08/2024 06:35* | *C24060732.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *103%* | *70-130* | | *06/10/2024 15:49* | *C24061005.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *95.0%* | *70-130* | | *06/08/2024 06:35* | *C24060732.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *107%* | *70-130* | | *06/10/2024 15:49* | *C24061005.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *120%* | *70-130* | | *06/08/2024 06:35* | *C24060732.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-15

## PSG-62A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 07:07 | C24060733.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **18** | | 10 | 06/08/2024 07:07 | C24060733.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| **Benzene** | 71-43-2 | **206** | | 25 | 06/08/2024 07:07 | C24060733.D |
| **Trichloroethene** | 79-01-6 | **644** | | 10 | 06/08/2024 07:07 | C24060733.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| **Toluene** | 108-88-3 | **142** | | 25 | 06/08/2024 07:07 | C24060733.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 07:07 | C24060733.D |
| **Tetrachloroethene** | 127-18-4 | **474** | | 10 | 06/08/2024 07:07 | C24060733.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| **Ethylbenzene** | 100-41-4 | **36** | | 25 | 06/08/2024 07:07 | C24060733.D |
| **p & m-Xylene** | 179601-23-1 | **96** | | 25 | 06/08/2024 07:07 | C24060733.D |
| **o-Xylene** | 95-47-6 | **78** | | 25 | 06/08/2024 07:07 | C24060733.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 07:07 | C24060733.D |
| **1,3,5-Trimethylbenzene** | 108-67-8 | **92** | | 25 | 06/08/2024 07:07 | C24060733.D |
| **1,2,4-Trimethylbenzene** | 95-63-6 | **167** | | 25 | 06/08/2024 07:07 | C24060733.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| **1,4-Dichlorobenzene** | 106-46-7 | **28** | | 10 | 06/08/2024 07:07 | C24060733.D |
| **1,2-Dichlorobenzene** | 95-50-1 | **62** | | 10 | 06/08/2024 07:07 | C24060733.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| **Naphthalene** | 91-20-3 | **17,800** | D | 8,550 | 06/10/2024 18:33 | C24061010.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 07:07 | C24060733.D |
| **2-Methylnaphthalene** | 91-57-6 | **13,400** | D | 476 | 06/10/2024 16:20 | C24061006.D |
| ∉ **TPH C4-C9** | | **9,540** | | 5,000 | 06/08/2024 07:07 | C24060733.D |
| ∉ **TPH C10-C15** | | **23,600** | | 5,000 | 06/08/2024 07:07 | C24060733.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *104%* | *70-130* | | *06/10/2024 18:33* | *C24061010.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *104%* | *70-130* | | *06/10/2024 16:20* | *C24061006.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *78.6%* | *70-130* | | *06/08/2024 07:07* | *C24060733.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *101%* | *70-130* | | *06/10/2024 16:20* | *C24061006.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *94.8%* | *70-130* | | *06/08/2024 07:07* | *C24060733.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *102%* | *70-130* | | *06/10/2024 18:33* | *C24061010.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *105%* | *70-130* | | *06/10/2024 18:33* | *C24061010.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *110%* | *70-130* | | *06/10/2024 16:20* | *C24061006.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-15

## PSG-62A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *120%* | *70-130* | | *06/08/2024 07:07* | *C24060733.D* |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-16

## DUP-02

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 07:41 | C24060734.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| **Benzene** | 71-43-2 | **59** | | 25 | 06/08/2024 07:41 | C24060734.D |
| **Trichloroethene** | 79-01-6 | **377** | | 10 | 06/08/2024 07:41 | C24060734.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| **Toluene** | 108-88-3 | **39** | | 25 | 06/08/2024 07:41 | C24060734.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 07:41 | C24060734.D |
| **Tetrachloroethene** | 127-18-4 | **189** | | 10 | 06/08/2024 07:41 | C24060734.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 07:41 | C24060734.D |
| **p & m-Xylene** | 179601-23-1 | **42** | | 25 | 06/08/2024 07:41 | C24060734.D |
| **o-Xylene** | 95-47-6 | **29** | | 25 | 06/08/2024 07:41 | C24060734.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 07:41 | C24060734.D |
| **1,3,5-Trimethylbenzene** | 108-67-8 | **74** | | 25 | 06/08/2024 07:41 | C24060734.D |
| **1,2,4-Trimethylbenzene** | 95-63-6 | **144** | | 25 | 06/08/2024 07:41 | C24060734.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| **1,4-Dichlorobenzene** | 106-46-7 | **26** | | 10 | 06/08/2024 07:41 | C24060734.D |
| **1,2-Dichlorobenzene** | 95-50-1 | **53** | | 10 | 06/08/2024 07:41 | C24060734.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| **Naphthalene** | 91-20-3 | **20,500** | D | 8,550 | 06/10/2024 19:05 | C24061011.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 07:41 | C24060734.D |
| **2-Methylnaphthalene** | 91-57-6 | **15,500** | D | 476 | 06/10/2024 16:52 | C24061007.D |
| ∉ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 07:41 | C24060734.D |
| ∉ **TPH C10-C15** | | **24,300** | | 5,000 | 06/08/2024 07:41 | C24060734.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *104%* | *70-130* | | *06/10/2024 16:52* | *C24061007.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *89.2%* | *70-130* | | *06/08/2024 07:41* | *C24060734.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *107%* | *70-130* | | *06/10/2024 19:05* | *C24061011.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *101%* | *70-130* | | *06/10/2024 16:52* | *C24061007.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *91.3%* | *70-130* | | *06/08/2024 07:41* | *C24060734.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *103%* | *70-130* | | *06/10/2024 19:05* | *C24061011.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *114%* | *70-130* | | *06/10/2024 16:52* | *C24061007.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *126%* | *70-130* | | *06/08/2024 07:41* | *C24060734.D* |

BEACON ENVIRONMENTAL

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1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-16

## DUP-02

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *107%* | *70-130* | | *06/10/2024 19:05* | *C24061011.D* |

BEACON ENVIRONMENTAL

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1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-17

## PSG-62B

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| **1,1-Dichloroethene** | 75-35-4 | **22** | | 10 | 06/08/2024 08:13 | C24060735.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **167** | | 10 | 06/08/2024 08:13 | C24060735.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 08:13 | C24060735.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **299** | | 10 | 06/08/2024 08:13 | C24060735.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| **Benzene** | 71-43-2 | **32** | | 25 | 06/08/2024 08:13 | C24060735.D |
| **Trichloroethene** | 79-01-6 | **2,410** | | 10 | 06/08/2024 08:13 | C24060735.D |
| **1,4-Dioxane** | 123-91-1 | **14** | | 10 | 06/08/2024 08:13 | C24060735.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| Toluene | 108-88-3 | <25 | | 25 | 06/08/2024 08:13 | C24060735.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 08:13 | C24060735.D |
| **Tetrachloroethene** | 127-18-4 | **32** | | 10 | 06/08/2024 08:13 | C24060735.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 08:13 | C24060735.D |
| **p & m-Xylene** | 179601-23-1 | **42** | | 25 | 06/08/2024 08:13 | C24060735.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 08:13 | C24060735.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 08:13 | C24060735.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 08:13 | C24060735.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 08:13 | C24060735.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| **Naphthalene** | 91-20-3 | **279** | | 25 | 06/08/2024 08:13 | C24060735.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 08:13 | C24060735.D |
| **2-Methylnaphthalene** | 91-57-6 | **119** | | 25 | 06/08/2024 08:13 | C24060735.D |
| ∉ **TPH C4-C9** | | **8,470** | | 5,000 | 06/08/2024 08:13 | C24060735.D |
| ∉ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 08:13 | C24060735.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *86.0%* | *70-130* | | *06/08/2024 08:13* | *C24060735.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *95.1%* | *70-130* | | *06/08/2024 08:13* | *C24060735.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *126%* | *70-130* | | *06/08/2024 08:13* | *C24060735.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-18

## PSG-62C

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,1-Dichloroethene | 75-35-4 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 08:46 | C24060736.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **22** | | 10 | 06/08/2024 08:46 | C24060736.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| **Benzene** | 71-43-2 | **53** | | 25 | 06/08/2024 08:46 | C24060736.D |
| **Trichloroethene** | 79-01-6 | **1,040** | | 10 | 06/08/2024 08:46 | C24060736.D |
| **1,4-Dioxane** | 123-91-1 | **13** | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| **Toluene** | 108-88-3 | **33** | | 25 | 06/08/2024 08:46 | C24060736.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 08:46 | C24060736.D |
| **Tetrachloroethene** | 127-18-4 | **24** | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 08:46 | C24060736.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 08:46 | C24060736.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 08:46 | C24060736.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 08:46 | C24060736.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 08:46 | C24060736.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 08:46 | C24060736.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| **Naphthalene** | 91-20-3 | **121** | | 25 | 06/08/2024 08:46 | C24060736.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 08:46 | C24060736.D |
| **2-Methylnaphthalene** | 91-57-6 | **40** | | 25 | 06/08/2024 08:46 | C24060736.D |
| ∈ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 08:46 | C24060736.D |
| ∈ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 08:46 | C24060736.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *79.3%* | *70-130* | | *06/08/2024 08:46* | *C24060736.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *100%* | *70-130* | | *06/08/2024 08:46* | *C24060736.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *120%* | *70-130* | | *06/08/2024 08:46* | *C24060736.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-19

## PSG-62D

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| **1,1-Dichloroethene** | 75-35-4 | **118** | | 10 | 06/08/2024 09:18 | C24060737.D |
| Methylene Chloride | 75-09-2 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **118** | | 10 | 06/08/2024 09:18 | C24060737.D |
| Methyl-t-butyl ether | 1634-04-4 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| 1,1-Dichloroethane | 75-34-3 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **523** | | 10 | 06/08/2024 09:18 | C24060737.D |
| Chloroform | 67-66-3 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| 1,2-Dichloroethane | 107-06-2 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| Carbon Tetrachloride | 56-23-5 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| **Benzene** | 71-43-2 | **95** | | 25 | 06/08/2024 09:18 | C24060737.D |
| **Trichloroethene** | 79-01-6 | **45,000** | D | 191 | 06/10/2024 17:24 | C24061008.D |
| 1,4-Dioxane | 123-91-1 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| **Toluene** | 108-88-3 | **48** | | 25 | 06/08/2024 09:18 | C24060737.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | | 5 | 06/08/2024 09:18 | C24060737.D |
| **Tetrachloroethene** | 127-18-4 | **2,610** | | 10 | 06/08/2024 09:18 | C24060737.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| Chlorobenzene | 108-90-7 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| Ethylbenzene | 100-41-4 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| p & m-Xylene | 179601-23-1 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| o-Xylene | 95-47-6 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| Isopropylbenzene | 98-82-8 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| Naphthalene | 91-20-3 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | | 10 | 06/08/2024 09:18 | C24060737.D |
| 2-Methylnaphthalene | 91-57-6 | <25 | | 25 | 06/08/2024 09:18 | C24060737.D |
| ∉ TPH C4-C9 | | <5,000 | | 5,000 | 06/08/2024 09:18 | C24060737.D |
| ∉ TPH C10-C15 | | <5,000 | | 5,000 | 06/08/2024 09:18 | C24060737.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *101%* | *70-130* | | *06/10/2024 17:24* | *C24061008.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *88.5%* | *70-130* | | *06/08/2024 09:18* | *C24060737.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *95.9%* | *70-130* | | *06/08/2024 09:18* | *C24060737.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *102%* | *70-130* | | *06/10/2024 17:24* | *C24061008.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *108%* | *70-130* | | *06/10/2024 17:24* | *C24061008.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *120%* | *70-130* | | *06/08/2024 09:18* | *C24060737.D* |

526 Underwood Lane
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1.410.838.8780

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# *Detailed Analytical Results- Concentration*

BEACON ENVIRONMENTAL

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-01

## Trip-1

Air

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | | 0.57 | 06/07/2024 23:33 | C24060719.D |
| 1,1-Dichloroethene | 75-35-4 | <1.40 | | 1.40 | 06/07/2024 23:33 | C24060719.D |
| Methylene Chloride | 75-09-2 | <1.32 | | 1.32 | 06/07/2024 23:33 | C24060719.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | | 0.52 | 06/07/2024 23:33 | C24060719.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.05 | | 1.05 | 06/07/2024 23:33 | C24060719.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.31 | | 2.31 | 06/07/2024 23:33 | C24060719.D |
| 1,1-Dichloroethane | 75-34-3 | <0.54 | | 0.54 | 06/07/2024 23:33 | C24060719.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.87 | | 0.87 | 06/07/2024 23:33 | C24060719.D |
| Chloroform | 67-66-3 | <1.32 | | 1.32 | 06/07/2024 23:33 | C24060719.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/07/2024 23:33 | C24060719.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | | 0.44 | 06/07/2024 23:33 | C24060719.D |
| Carbon Tetrachloride | 56-23-5 | <1.08 | | 1.08 | 06/07/2024 23:33 | C24060719.D |
| Benzene | 71-43-2 | <2.18 | | 2.18 | 06/07/2024 23:33 | C24060719.D |
| Trichloroethene | 79-01-6 | <1.40 | | 1.40 | 06/07/2024 23:33 | C24060719.D |
| 1,4-Dioxane | 123-91-1 | <1.13 | | 1.13 | 06/07/2024 23:33 | C24060719.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.40 | | 1.40 | 06/07/2024 23:33 | C24060719.D |
| Toluene | 108-88-3 | <2.89 | | 2.89 | 06/07/2024 23:33 | C24060719.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.59 | | 0.59 | 06/07/2024 23:33 | C24060719.D |
| Tetrachloroethene | 127-18-4 | <1.13 | | 1.13 | 06/07/2024 23:33 | C24060719.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | | 1.13 | 06/07/2024 23:33 | C24060719.D |
| Chlorobenzene | 108-90-7 | <0.54 | | 0.54 | 06/07/2024 23:33 | C24060719.D |
| Ethylbenzene | 100-41-4 | <1.36 | | 1.36 | 06/07/2024 23:33 | C24060719.D |
| p & m-Xylene | 179601-23-1 | <1.32 | | 1.32 | 06/07/2024 23:33 | C24060719.D |
| o-Xylene | 95-47-6 | <1.32 | | 1.32 | 06/07/2024 23:33 | C24060719.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/07/2024 23:33 | C24060719.D |
| Isopropylbenzene | 98-82-8 | <1.39 | | 1.39 | 06/07/2024 23:33 | C24060719.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.39 | | 1.39 | 06/07/2024 23:33 | C24060719.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.39 | | 1.39 | 06/07/2024 23:33 | C24060719.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/07/2024 23:33 | C24060719.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/07/2024 23:33 | C24060719.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/07/2024 23:33 | C24060719.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | | 1.19 | 06/07/2024 23:33 | C24060719.D |
| Naphthalene | 91-20-3 | <1.45 | | 1.45 | 06/07/2024 23:33 | C24060719.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | | 1.19 | 06/07/2024 23:33 | C24060719.D |
| 2-Methylnaphthalene | 91-57-6 | <1.52 | | 1.52 | 06/07/2024 23:33 | C24060719.D |
| ∉ TPH C4-C9 | | <392 | | 392 | 06/07/2024 23:33 | C24060719.D |
| ∉ TPH C10-C15 | | <335 | | 335 | 06/07/2024 23:33 | C24060719.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *120%* | *70-130* | | *06/07/2024 23:33* | *C24060719.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *90.4%* | *70-130* | | *06/07/2024 23:33* | *C24060719.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *105%* | *70-130* | | *06/07/2024 23:33* | *C24060719.D* |

BEACON ENVIRONMENTAL

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Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-02

## PSG-10A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | | 0.57 | 06/08/2024 00:04 | C24060720.D |
| 1,1-Dichloroethene | 75-35-4 | <1.41 | | 1.41 | 06/08/2024 00:04 | C24060720.D |
| Methylene Chloride | 75-09-2 | <1.33 | | 1.33 | 06/08/2024 00:04 | C24060720.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | | 0.52 | 06/08/2024 00:04 | C24060720.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.06 | | 1.06 | 06/08/2024 00:04 | C24060720.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.33 | | 2.33 | 06/08/2024 00:04 | C24060720.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 00:04 | C24060720.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.88 | | 0.88 | 06/08/2024 00:04 | C24060720.D |
| Chloroform | 67-66-3 | <1.33 | | 1.33 | 06/08/2024 00:04 | C24060720.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/08/2024 00:04 | C24060720.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | | 0.44 | 06/08/2024 00:04 | C24060720.D |
| Carbon Tetrachloride | 56-23-5 | <1.08 | | 1.08 | 06/08/2024 00:04 | C24060720.D |
| **Benzene** | 71-43-2 | **2.79** | | 2.19 | 06/08/2024 00:04 | C24060720.D |
| **Trichloroethene** | 79-01-6 | **2.22** | | 1.41 | 06/08/2024 00:04 | C24060720.D |
| 1,4-Dioxane | 123-91-1 | <1.13 | | 1.13 | 06/08/2024 00:04 | C24060720.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.41 | | 1.41 | 06/08/2024 00:04 | C24060720.D |
| Toluene | 108-88-3 | <2.91 | | 2.91 | 06/08/2024 00:04 | C24060720.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 00:04 | C24060720.D |
| **Tetrachloroethene** | 127-18-4 | **19.1** | | 1.13 | 06/08/2024 00:04 | C24060720.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | | 1.13 | 06/08/2024 00:04 | C24060720.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 00:04 | C24060720.D |
| Ethylbenzene | 100-41-4 | <1.37 | | 1.37 | 06/08/2024 00:04 | C24060720.D |
| p & m-Xylene | 179601-23-1 | <1.32 | | 1.32 | 06/08/2024 00:04 | C24060720.D |
| o-Xylene | 95-47-6 | <1.32 | | 1.32 | 06/08/2024 00:04 | C24060720.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 00:04 | C24060720.D |
| Isopropylbenzene | 98-82-8 | <1.40 | | 1.40 | 06/08/2024 00:04 | C24060720.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.40 | | 1.40 | 06/08/2024 00:04 | C24060720.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.40 | | 1.40 | 06/08/2024 00:04 | C24060720.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 00:04 | C24060720.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 00:04 | C24060720.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 00:04 | C24060720.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | | 1.19 | 06/08/2024 00:04 | C24060720.D |
| Naphthalene | 91-20-3 | <1.45 | | 1.45 | 06/08/2024 00:04 | C24060720.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | | 1.19 | 06/08/2024 00:04 | C24060720.D |
| 2-Methylnaphthalene | 91-57-6 | <1.53 | | 1.53 | 06/08/2024 00:04 | C24060720.D |
| ∈ TPH C4-C9 | | <394 | | 394 | 06/08/2024 00:04 | C24060720.D |
| ∈ TPH C10-C15 | | <337 | | 337 | 06/08/2024 00:04 | C24060720.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *103%* | *70-130* | | *06/08/2024 00:04* | *C24060720.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *94.6%* | *70-130* | | *06/08/2024 00:04* | *C24060720.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *108%* | *70-130* | | *06/08/2024 00:04* | *C24060720.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-03

## DUP-01

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | | 0.57 | 06/08/2024 00:36 | C24060721.D |
| 1,1-Dichloroethene | 75-35-4 | <1.41 | | 1.41 | 06/08/2024 00:36 | C24060721.D |
| Methylene Chloride | 75-09-2 | <1.33 | | 1.33 | 06/08/2024 00:36 | C24060721.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | | 0.52 | 06/08/2024 00:36 | C24060721.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.06 | | 1.06 | 06/08/2024 00:36 | C24060721.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.33 | | 2.33 | 06/08/2024 00:36 | C24060721.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 00:36 | C24060721.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.88 | | 0.88 | 06/08/2024 00:36 | C24060721.D |
| Chloroform | 67-66-3 | <1.33 | | 1.33 | 06/08/2024 00:36 | C24060721.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/08/2024 00:36 | C24060721.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | | 0.44 | 06/08/2024 00:36 | C24060721.D |
| Carbon Tetrachloride | 56-23-5 | <1.08 | | 1.08 | 06/08/2024 00:36 | C24060721.D |
| **Benzene** | 71-43-2 | **3.46** | | 2.19 | 06/08/2024 00:36 | C24060721.D |
| **Trichloroethene** | 79-01-6 | **2.40** | | 1.41 | 06/08/2024 00:36 | C24060721.D |
| 1,4-Dioxane | 123-91-1 | <1.13 | | 1.13 | 06/08/2024 00:36 | C24060721.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.41 | | 1.41 | 06/08/2024 00:36 | C24060721.D |
| Toluene | 108-88-3 | <2.91 | | 2.91 | 06/08/2024 00:36 | C24060721.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 00:36 | C24060721.D |
| **Tetrachloroethene** | 127-18-4 | **16.5** | | 1.13 | 06/08/2024 00:36 | C24060721.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | | 1.13 | 06/08/2024 00:36 | C24060721.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 00:36 | C24060721.D |
| Ethylbenzene | 100-41-4 | <1.37 | | 1.37 | 06/08/2024 00:36 | C24060721.D |
| p & m-Xylene | 179601-23-1 | <1.32 | | 1.32 | 06/08/2024 00:36 | C24060721.D |
| o-Xylene | 95-47-6 | <1.32 | | 1.32 | 06/08/2024 00:36 | C24060721.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 00:36 | C24060721.D |
| Isopropylbenzene | 98-82-8 | <1.40 | | 1.40 | 06/08/2024 00:36 | C24060721.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.40 | | 1.40 | 06/08/2024 00:36 | C24060721.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.40 | | 1.40 | 06/08/2024 00:36 | C24060721.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 00:36 | C24060721.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 00:36 | C24060721.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 00:36 | C24060721.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | | 1.19 | 06/08/2024 00:36 | C24060721.D |
| Naphthalene | 91-20-3 | <1.45 | | 1.45 | 06/08/2024 00:36 | C24060721.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | | 1.19 | 06/08/2024 00:36 | C24060721.D |
| 2-Methylnaphthalene | 91-57-6 | <1.53 | | 1.53 | 06/08/2024 00:36 | C24060721.D |
| ∈ TPH C4-C9 | | <394 | | 394 | 06/08/2024 00:36 | C24060721.D |
| ∈ TPH C10-C15 | | <337 | | 337 | 06/08/2024 00:36 | C24060721.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *99.0%* | *70-130* | | *06/08/2024 00:36* | *C24060721.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *92.0%* | *70-130* | | *06/08/2024 00:36* | *C24060721.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *113%* | *70-130* | | *06/08/2024 00:36* | *C24060721.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
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1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-04

## PSG-10B

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 01:09 | C24060722.D |
| 1,1-Dichloroethene | 75-35-4 | <1.42 | | 1.42 | 06/08/2024 01:09 | C24060722.D |
| Methylene Chloride | 75-09-2 | <1.34 | | 1.34 | 06/08/2024 01:09 | C24060722.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 01:09 | C24060722.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.06 | | 1.06 | 06/08/2024 01:09 | C24060722.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.34 | | 2.34 | 06/08/2024 01:09 | C24060722.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 01:09 | C24060722.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.88 | | 0.88 | 06/08/2024 01:09 | C24060722.D |
| Chloroform | 67-66-3 | <1.34 | | 1.34 | 06/08/2024 01:09 | C24060722.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 01:09 | C24060722.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 01:09 | C24060722.D |
| Carbon Tetrachloride | 56-23-5 | <1.09 | | 1.09 | 06/08/2024 01:09 | C24060722.D |
| **Benzene** | 71-43-2 | **2.43** | | 2.21 | 06/08/2024 01:09 | C24060722.D |
| **Trichloroethene** | 79-01-6 | **2.95** | | 1.42 | 06/08/2024 01:09 | C24060722.D |
| 1,4-Dioxane | 123-91-1 | <1.14 | | 1.14 | 06/08/2024 01:09 | C24060722.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.42 | | 1.42 | 06/08/2024 01:09 | C24060722.D |
| Toluene | 108-88-3 | <2.92 | | 2.92 | 06/08/2024 01:09 | C24060722.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 01:09 | C24060722.D |
| **Tetrachloroethene** | 127-18-4 | **14.6** | | 1.14 | 06/08/2024 01:09 | C24060722.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.14 | | 1.14 | 06/08/2024 01:09 | C24060722.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 01:09 | C24060722.D |
| Ethylbenzene | 100-41-4 | <1.38 | | 1.38 | 06/08/2024 01:09 | C24060722.D |
| **p & m-Xylene** | 179601-23-1 | **4.53** | | 1.33 | 06/08/2024 01:09 | C24060722.D |
| **o-Xylene** | 95-47-6 | **2.08** | | 1.33 | 06/08/2024 01:09 | C24060722.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 01:09 | C24060722.D |
| Isopropylbenzene | 98-82-8 | <1.41 | | 1.41 | 06/08/2024 01:09 | C24060722.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.41 | | 1.41 | 06/08/2024 01:09 | C24060722.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.41 | | 1.41 | 06/08/2024 01:09 | C24060722.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 01:09 | C24060722.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 01:09 | C24060722.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 01:09 | C24060722.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.20 | | 1.20 | 06/08/2024 01:09 | C24060722.D |
| Naphthalene | 91-20-3 | <1.46 | | 1.46 | 06/08/2024 01:09 | C24060722.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.20 | | 1.20 | 06/08/2024 01:09 | C24060722.D |
| 2-Methylnaphthalene | 91-57-6 | <1.54 | | 1.54 | 06/08/2024 01:09 | C24060722.D |
| ∈ TPH C4-C9 | | <396 | | 396 | 06/08/2024 01:09 | C24060722.D |
| ∈ TPH C10-C15 | | <339 | | 339 | 06/08/2024 01:09 | C24060722.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *99.1%* | *70-130* | | *06/08/2024 01:09* | *C24060722.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *120%* | *70-130* | | *06/08/2024 01:09* | *C24060722.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *119%* | *70-130* | | *06/08/2024 01:09* | *C24060722.D* |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-05

## PSG-10C

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | | 0.57 | 06/08/2024 01:41 | C24060723.D |
| 1,1-Dichloroethene | 75-35-4 | <1.40 | | 1.40 | 06/08/2024 01:41 | C24060723.D |
| Methylene Chloride | 75-09-2 | <1.32 | | 1.32 | 06/08/2024 01:41 | C24060723.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | | 0.52 | 06/08/2024 01:41 | C24060723.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.05 | | 1.05 | 06/08/2024 01:41 | C24060723.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.32 | | 2.32 | 06/08/2024 01:41 | C24060723.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 01:41 | C24060723.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.87 | | 0.87 | 06/08/2024 01:41 | C24060723.D |
| Chloroform | 67-66-3 | <1.32 | | 1.32 | 06/08/2024 01:41 | C24060723.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/08/2024 01:41 | C24060723.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | | 0.44 | 06/08/2024 01:41 | C24060723.D |
| Carbon Tetrachloride | 56-23-5 | <1.08 | | 1.08 | 06/08/2024 01:41 | C24060723.D |
| Benzene | 71-43-2 | <2.19 | | 2.19 | 06/08/2024 01:41 | C24060723.D |
| **Trichloroethene** | 79-01-6 | **7.58** | | 1.40 | 06/08/2024 01:41 | C24060723.D |
| 1,4-Dioxane | 123-91-1 | <1.13 | | 1.13 | 06/08/2024 01:41 | C24060723.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.40 | | 1.40 | 06/08/2024 01:41 | C24060723.D |
| Toluene | 108-88-3 | <2.90 | | 2.90 | 06/08/2024 01:41 | C24060723.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.59 | | 0.59 | 06/08/2024 01:41 | C24060723.D |
| **Tetrachloroethene** | 127-18-4 | **103** | | 1.13 | 06/08/2024 01:41 | C24060723.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | | 1.13 | 06/08/2024 01:41 | C24060723.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 01:41 | C24060723.D |
| Ethylbenzene | 100-41-4 | <1.36 | | 1.36 | 06/08/2024 01:41 | C24060723.D |
| p & m-Xylene | 179601-23-1 | <1.32 | | 1.32 | 06/08/2024 01:41 | C24060723.D |
| o-Xylene | 95-47-6 | <1.32 | | 1.32 | 06/08/2024 01:41 | C24060723.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 01:41 | C24060723.D |
| Isopropylbenzene | 98-82-8 | <1.40 | | 1.40 | 06/08/2024 01:41 | C24060723.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.40 | | 1.40 | 06/08/2024 01:41 | C24060723.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.40 | | 1.40 | 06/08/2024 01:41 | C24060723.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 01:41 | C24060723.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 01:41 | C24060723.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 01:41 | C24060723.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | | 1.19 | 06/08/2024 01:41 | C24060723.D |
| Naphthalene | 91-20-3 | <1.45 | | 1.45 | 06/08/2024 01:41 | C24060723.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | | 1.19 | 06/08/2024 01:41 | C24060723.D |
| 2-Methylnaphthalene | 91-57-6 | <1.52 | | 1.52 | 06/08/2024 01:41 | C24060723.D |
| ∉ TPH C4-C9 | | <393 | | 393 | 06/08/2024 01:41 | C24060723.D |
| ∉ TPH C10-C15 | | <336 | | 336 | 06/08/2024 01:41 | C24060723.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *102%* | *70-130* | | *06/08/2024 01:41* | *C24060723.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *93.2%* | *70-130* | | *06/08/2024 01:41* | *C24060723.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *110%* | *70-130* | | *06/08/2024 01:41* | *C24060723.D* |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-06

## PSG-10D

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 02:15 | C24060724.D |
| 1,1-Dichloroethene | 75-35-4 | <1.42 | | 1.42 | 06/08/2024 02:15 | C24060724.D |
| Methylene Chloride | 75-09-2 | <1.34 | | 1.34 | 06/08/2024 02:15 | C24060724.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 02:15 | C24060724.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.06 | | 1.06 | 06/08/2024 02:15 | C24060724.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.34 | | 2.34 | 06/08/2024 02:15 | C24060724.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 02:15 | C24060724.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.88 | | 0.88 | 06/08/2024 02:15 | C24060724.D |
| Chloroform | 67-66-3 | <1.34 | | 1.34 | 06/08/2024 02:15 | C24060724.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/08/2024 02:15 | C24060724.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 02:15 | C24060724.D |
| Carbon Tetrachloride | 56-23-5 | <1.09 | | 1.09 | 06/08/2024 02:15 | C24060724.D |
| Benzene | 71-43-2 | <2.21 | | 2.21 | 06/08/2024 02:15 | C24060724.D |
| **Trichloroethene** | 79-01-6 | **6.90** | | 1.42 | 06/08/2024 02:15 | C24060724.D |
| 1,4-Dioxane | 123-91-1 | <1.14 | | 1.14 | 06/08/2024 02:15 | C24060724.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.42 | | 1.42 | 06/08/2024 02:15 | C24060724.D |
| Toluene | 108-88-3 | <2.92 | | 2.92 | 06/08/2024 02:15 | C24060724.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 02:15 | C24060724.D |
| **Tetrachloroethene** | 127-18-4 | **21.8** | | 1.14 | 06/08/2024 02:15 | C24060724.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.14 | | 1.14 | 06/08/2024 02:15 | C24060724.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 02:15 | C24060724.D |
| Ethylbenzene | 100-41-4 | <1.38 | | 1.38 | 06/08/2024 02:15 | C24060724.D |
| **p & m-Xylene** | 179601-23-1 | **2.26** | | 1.33 | 06/08/2024 02:15 | C24060724.D |
| o-Xylene | 95-47-6 | <1.33 | | 1.33 | 06/08/2024 02:15 | C24060724.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 02:15 | C24060724.D |
| Isopropylbenzene | 98-82-8 | <1.41 | | 1.41 | 06/08/2024 02:15 | C24060724.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.41 | | 1.41 | 06/08/2024 02:15 | C24060724.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.41 | | 1.41 | 06/08/2024 02:15 | C24060724.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 02:15 | C24060724.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 02:15 | C24060724.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 02:15 | C24060724.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.20 | | 1.20 | 06/08/2024 02:15 | C24060724.D |
| Naphthalene | 91-20-3 | <1.46 | | 1.46 | 06/08/2024 02:15 | C24060724.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.20 | | 1.20 | 06/08/2024 02:15 | C24060724.D |
| 2-Methylnaphthalene | 91-57-6 | <1.54 | | 1.54 | 06/08/2024 02:15 | C24060724.D |
| ∉ TPH C4-C9 | | <396 | | 396 | 06/08/2024 02:15 | C24060724.D |
| ∉ TPH C10-C15 | | <339 | | 339 | 06/08/2024 02:15 | C24060724.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *98.6%* | *70-130* | | *06/08/2024 02:15* | *C24060724.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *108%* | *70-130* | | *06/08/2024 02:15* | *C24060724.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *112%* | *70-130* | | *06/08/2024 02:15* | *C24060724.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-07

## PSG-25A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 02:47 | C24060725.D |
| 1,1-Dichloroethene | 75-35-4 | <1.42 | | 1.42 | 06/08/2024 02:47 | C24060725.D |
| Methylene Chloride | 75-09-2 | <1.34 | | 1.34 | 06/08/2024 02:47 | C24060725.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 02:47 | C24060725.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.07 | | 1.07 | 06/08/2024 02:47 | C24060725.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.35 | | 2.35 | 06/08/2024 02:47 | C24060725.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 02:47 | C24060725.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.89 | | 0.89 | 06/08/2024 02:47 | C24060725.D |
| Chloroform | 67-66-3 | <1.34 | | 1.34 | 06/08/2024 02:47 | C24060725.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 02:47 | C24060725.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 02:47 | C24060725.D |
| Carbon Tetrachloride | 56-23-5 | <1.09 | | 1.09 | 06/08/2024 02:47 | C24060725.D |
| **Benzene** | 71-43-2 | **14.3** | | 2.22 | 06/08/2024 02:47 | C24060725.D |
| Trichloroethene | 79-01-6 | <1.42 | | 1.42 | 06/08/2024 02:47 | C24060725.D |
| 1,4-Dioxane | 123-91-1 | <1.15 | | 1.15 | 06/08/2024 02:47 | C24060725.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.42 | | 1.42 | 06/08/2024 02:47 | C24060725.D |
| **Toluene** | 108-88-3 | **19.8** | | 2.94 | 06/08/2024 02:47 | C24060725.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 02:47 | C24060725.D |
| Tetrachloroethene | 127-18-4 | <1.15 | | 1.15 | 06/08/2024 02:47 | C24060725.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | | 1.15 | 06/08/2024 02:47 | C24060725.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 02:47 | C24060725.D |
| **Ethylbenzene** | 100-41-4 | **1.57** | | 1.38 | 06/08/2024 02:47 | C24060725.D |
| **p & m-Xylene** | 179601-23-1 | **5.67** | | 1.34 | 06/08/2024 02:47 | C24060725.D |
| **o-Xylene** | 95-47-6 | **2.90** | | 1.34 | 06/08/2024 02:47 | C24060725.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 02:47 | C24060725.D |
| Isopropylbenzene | 98-82-8 | <1.42 | | 1.42 | 06/08/2024 02:47 | C24060725.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.42 | | 1.42 | 06/08/2024 02:47 | C24060725.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.42 | | 1.42 | 06/08/2024 02:47 | C24060725.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 02:47 | C24060725.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.63 | | 0.63 | 06/08/2024 02:47 | C24060725.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.63 | | 0.63 | 06/08/2024 02:47 | C24060725.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.21 | | 1.21 | 06/08/2024 02:47 | C24060725.D |
| Naphthalene | 91-20-3 | <1.47 | | 1.47 | 06/08/2024 02:47 | C24060725.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.21 | | 1.21 | 06/08/2024 02:47 | C24060725.D |
| 2-Methylnaphthalene | 91-57-6 | <1.55 | | 1.55 | 06/08/2024 02:47 | C24060725.D |
| ∉ **TPH C4-C9** | | **1,940** | | 398 | 06/08/2024 02:47 | C24060725.D |
| ∉ TPH C10-C15 | | <341 | | 341 | 06/08/2024 02:47 | C24060725.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *115%* | *70-130* | | *06/08/2024 02:47* | *C24060725.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *194%* | *70-130* | *S4* | *06/08/2024 02:47* | *C24060725.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *118%* | *70-130* | | *06/08/2024 02:47* | *C24060725.D* |

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1.410.838.8780

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-08

## PSG-25B

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 03:20 | C24060726.D |
| 1,1-Dichloroethene | 75-35-4 | <1.42 | | 1.42 | 06/08/2024 03:20 | C24060726.D |
| Methylene Chloride | 75-09-2 | <1.34 | | 1.34 | 06/08/2024 03:20 | C24060726.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 03:20 | C24060726.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.07 | | 1.07 | 06/08/2024 03:20 | C24060726.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.35 | | 2.35 | 06/08/2024 03:20 | C24060726.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 03:20 | C24060726.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.89 | | 0.89 | 06/08/2024 03:20 | C24060726.D |
| Chloroform | 67-66-3 | <1.34 | | 1.34 | 06/08/2024 03:20 | C24060726.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 03:20 | C24060726.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 03:20 | C24060726.D |
| Carbon Tetrachloride | 56-23-5 | <1.09 | | 1.09 | 06/08/2024 03:20 | C24060726.D |
| **Benzene** | 71-43-2 | **25.0** | | 2.22 | 06/08/2024 03:20 | C24060726.D |
| Trichloroethene | 79-01-6 | <1.42 | | 1.42 | 06/08/2024 03:20 | C24060726.D |
| 1,4-Dioxane | 123-91-1 | <1.15 | | 1.15 | 06/08/2024 03:20 | C24060726.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.42 | | 1.42 | 06/08/2024 03:20 | C24060726.D |
| **Toluene** | 108-88-3 | **35.7** | | 2.94 | 06/08/2024 03:20 | C24060726.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 03:20 | C24060726.D |
| **Tetrachloroethene** | 127-18-4 | **1.88** | | 1.15 | 06/08/2024 03:20 | C24060726.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | | 1.15 | 06/08/2024 03:20 | C24060726.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 03:20 | C24060726.D |
| **Ethylbenzene** | 100-41-4 | **2.07** | | 1.38 | 06/08/2024 03:20 | C24060726.D |
| **p & m-Xylene** | 179601-23-1 | **4.52** | | 1.34 | 06/08/2024 03:20 | C24060726.D |
| **o-Xylene** | 95-47-6 | **2.50** | | 1.34 | 06/08/2024 03:20 | C24060726.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 03:20 | C24060726.D |
| Isopropylbenzene | 98-82-8 | <1.42 | | 1.42 | 06/08/2024 03:20 | C24060726.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.42 | | 1.42 | 06/08/2024 03:20 | C24060726.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.42 | | 1.42 | 06/08/2024 03:20 | C24060726.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 03:20 | C24060726.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.63 | | 0.63 | 06/08/2024 03:20 | C24060726.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.63 | | 0.63 | 06/08/2024 03:20 | C24060726.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.20 | | 1.20 | 06/08/2024 03:20 | C24060726.D |
| Naphthalene | 91-20-3 | <1.47 | | 1.47 | 06/08/2024 03:20 | C24060726.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.20 | | 1.20 | 06/08/2024 03:20 | C24060726.D |
| 2-Methylnaphthalene | 91-57-6 | <1.55 | | 1.55 | 06/08/2024 03:20 | C24060726.D |
| ∉ **TPH C4-C9** | | **10,400** | | 398 | 06/08/2024 03:20 | C24060726.D |
| ∉ **TPH C10-C15** | | **6,730** | | 341 | 06/08/2024 03:20 | C24060726.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *89.5%* | *70-130* | | *06/08/2024 03:20* | *C24060726.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *584%* | *70-130* | *S4* | *06/08/2024 03:20* | *C24060726.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *148%* | *70-130* | *S4* | *06/08/2024 03:20* | *C24060726.D* |

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Bel Air, MD 21014 USA
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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-09

## PSG-25C

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 03:52 | C24060727.D |
| 1,1-Dichloroethene | 75-35-4 | <1.42 | | 1.42 | 06/08/2024 03:52 | C24060727.D |
| Methylene Chloride | 75-09-2 | <1.34 | | 1.34 | 06/08/2024 03:52 | C24060727.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 03:52 | C24060727.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.07 | | 1.07 | 06/08/2024 03:52 | C24060727.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.35 | | 2.35 | 06/08/2024 03:52 | C24060727.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 03:52 | C24060727.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.89 | | 0.89 | 06/08/2024 03:52 | C24060727.D |
| Chloroform | 67-66-3 | <1.34 | | 1.34 | 06/08/2024 03:52 | C24060727.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 03:52 | C24060727.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 03:52 | C24060727.D |
| Carbon Tetrachloride | 56-23-5 | <1.09 | | 1.09 | 06/08/2024 03:52 | C24060727.D |
| **Benzene** | 71-43-2 | **8.57** | | 2.21 | 06/08/2024 03:52 | C24060727.D |
| Trichloroethene | 79-01-6 | <1.42 | | 1.42 | 06/08/2024 03:52 | C24060727.D |
| 1,4-Dioxane | 123-91-1 | <1.15 | | 1.15 | 06/08/2024 03:52 | C24060727.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.42 | | 1.42 | 06/08/2024 03:52 | C24060727.D |
| **Toluene** | 108-88-3 | **9.23** | | 2.93 | 06/08/2024 03:52 | C24060727.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 03:52 | C24060727.D |
| **Tetrachloroethene** | 127-18-4 | **10.4** | | 1.15 | 06/08/2024 03:52 | C24060727.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | | 1.15 | 06/08/2024 03:52 | C24060727.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 03:52 | C24060727.D |
| Ethylbenzene | 100-41-4 | <1.38 | | 1.38 | 06/08/2024 03:52 | C24060727.D |
| **p & m-Xylene** | 179601-23-1 | **6.06** | | 1.33 | 06/08/2024 03:52 | C24060727.D |
| **o-Xylene** | 95-47-6 | **2.90** | | 1.33 | 06/08/2024 03:52 | C24060727.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 03:52 | C24060727.D |
| Isopropylbenzene | 98-82-8 | <1.41 | | 1.41 | 06/08/2024 03:52 | C24060727.D |
| **1,3,5-Trimethylbenzene** | 108-67-8 | **1.77** | | 1.41 | 06/08/2024 03:52 | C24060727.D |
| **1,2,4-Trimethylbenzene** | 95-63-6 | **5.86** | | 1.41 | 06/08/2024 03:52 | C24060727.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 03:52 | C24060727.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.63 | | 0.63 | 06/08/2024 03:52 | C24060727.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.63 | | 0.63 | 06/08/2024 03:52 | C24060727.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.20 | | 1.20 | 06/08/2024 03:52 | C24060727.D |
| **Naphthalene** | 91-20-3 | **4.71** | | 1.47 | 06/08/2024 03:52 | C24060727.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.20 | | 1.20 | 06/08/2024 03:52 | C24060727.D |
| **2-Methylnaphthalene** | 91-57-6 | **2.17** | | 1.54 | 06/08/2024 03:52 | C24060727.D |
| ∉ TPH C4-C9 | | <398 | | 398 | 06/08/2024 03:52 | C24060727.D |
| ∉ TPH C10-C15 | | <340 | | 340 | 06/08/2024 03:52 | C24060727.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *88.0%* | *70-130* | | *06/08/2024 03:52* | *C24060727.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *97.7%* | *70-130* | | *06/08/2024 03:52* | *C24060727.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *123%* | *70-130* | | *06/08/2024 03:52* | *C24060727.D* |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-10

## PSG-25D

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 04:24 | C24060728.D |
| 1,1-Dichloroethene | 75-35-4 | <1.42 | | 1.42 | 06/08/2024 04:24 | C24060728.D |
| Methylene Chloride | 75-09-2 | <1.34 | | 1.34 | 06/08/2024 04:24 | C24060728.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 04:24 | C24060728.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.07 | | 1.07 | 06/08/2024 04:24 | C24060728.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.35 | | 2.35 | 06/08/2024 04:24 | C24060728.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 04:24 | C24060728.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.88 | | 0.88 | 06/08/2024 04:24 | C24060728.D |
| Chloroform | 67-66-3 | <1.34 | | 1.34 | 06/08/2024 04:24 | C24060728.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 04:24 | C24060728.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 04:24 | C24060728.D |
| Carbon Tetrachloride | 56-23-5 | <1.09 | | 1.09 | 06/08/2024 04:24 | C24060728.D |
| **Benzene** | 71-43-2 | **7.75** | | 2.21 | 06/08/2024 04:24 | C24060728.D |
| **Trichloroethene** | 79-01-6 | **2.47** | | 1.42 | 06/08/2024 04:24 | C24060728.D |
| 1,4-Dioxane | 123-91-1 | <1.14 | | 1.14 | 06/08/2024 04:24 | C24060728.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.42 | | 1.42 | 06/08/2024 04:24 | C24060728.D |
| **Toluene** | 108-88-3 | **6.86** | | 2.93 | 06/08/2024 04:24 | C24060728.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 04:24 | C24060728.D |
| **Tetrachloroethene** | 127-18-4 | **19.8** | | 1.14 | 06/08/2024 04:24 | C24060728.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.14 | | 1.14 | 06/08/2024 04:24 | C24060728.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 04:24 | C24060728.D |
| Ethylbenzene | 100-41-4 | <1.38 | | 1.38 | 06/08/2024 04:24 | C24060728.D |
| **p & m-Xylene** | 179601-23-1 | **3.35** | | 1.33 | 06/08/2024 04:24 | C24060728.D |
| **o-Xylene** | 95-47-6 | **2.37** | | 1.33 | 06/08/2024 04:24 | C24060728.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 04:24 | C24060728.D |
| Isopropylbenzene | 98-82-8 | <1.41 | | 1.41 | 06/08/2024 04:24 | C24060728.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.41 | | 1.41 | 06/08/2024 04:24 | C24060728.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.41 | | 1.41 | 06/08/2024 04:24 | C24060728.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 04:24 | C24060728.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.63 | | 0.63 | 06/08/2024 04:24 | C24060728.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.63 | | 0.63 | 06/08/2024 04:24 | C24060728.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.20 | | 1.20 | 06/08/2024 04:24 | C24060728.D |
| Naphthalene | 91-20-3 | <1.47 | | 1.47 | 06/08/2024 04:24 | C24060728.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.20 | | 1.20 | 06/08/2024 04:24 | C24060728.D |
| 2-Methylnaphthalene | 91-57-6 | <1.54 | | 1.54 | 06/08/2024 04:24 | C24060728.D |
| ∉ **TPH C4-C9** | | **2,400** | | 397 | 06/08/2024 04:24 | C24060728.D |
| ∉ **TPH C10-C15** | | **1,060** | | 340 | 06/08/2024 04:24 | C24060728.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *94.4%* | *70-130* | | *06/08/2024 04:24* | *C24060728.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *106%* | *70-130* | | *06/08/2024 04:24* | *C24060728.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *123%* | *70-130* | | *06/08/2024 04:24* | *C24060728.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-11

## PSG-41A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | | 0.57 | 06/08/2024 04:58 | C24060729.D |
| 1,1-Dichloroethene | 75-35-4 | <1.40 | | 1.40 | 06/08/2024 04:58 | C24060729.D |
| Methylene Chloride | 75-09-2 | <1.32 | | 1.32 | 06/08/2024 04:58 | C24060729.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | | 0.52 | 06/08/2024 04:58 | C24060729.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.05 | | 1.05 | 06/08/2024 04:58 | C24060729.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.31 | | 2.31 | 06/08/2024 04:58 | C24060729.D |
| 1,1-Dichloroethane | 75-34-3 | <0.54 | | 0.54 | 06/08/2024 04:58 | C24060729.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.87 | | 0.87 | 06/08/2024 04:58 | C24060729.D |
| Chloroform | 67-66-3 | <1.32 | | 1.32 | 06/08/2024 04:58 | C24060729.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/08/2024 04:58 | C24060729.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | | 0.44 | 06/08/2024 04:58 | C24060729.D |
| Carbon Tetrachloride | 56-23-5 | <1.08 | | 1.08 | 06/08/2024 04:58 | C24060729.D |
| **Benzene** | 71-43-2 | **6.23** | | 2.18 | 06/08/2024 04:58 | C24060729.D |
| Trichloroethene | 79-01-6 | <1.40 | | 1.40 | 06/08/2024 04:58 | C24060729.D |
| 1,4-Dioxane | 123-91-1 | <1.13 | | 1.13 | 06/08/2024 04:58 | C24060729.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.40 | | 1.40 | 06/08/2024 04:58 | C24060729.D |
| Toluene | 108-88-3 | <2.89 | | 2.89 | 06/08/2024 04:58 | C24060729.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.59 | | 0.59 | 06/08/2024 04:58 | C24060729.D |
| Tetrachloroethene | 127-18-4 | <1.13 | | 1.13 | 06/08/2024 04:58 | C24060729.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | | 1.13 | 06/08/2024 04:58 | C24060729.D |
| Chlorobenzene | 108-90-7 | <0.54 | | 0.54 | 06/08/2024 04:58 | C24060729.D |
| Ethylbenzene | 100-41-4 | <1.36 | | 1.36 | 06/08/2024 04:58 | C24060729.D |
| p & m-Xylene | 179601-23-1 | <1.32 | | 1.32 | 06/08/2024 04:58 | C24060729.D |
| o-Xylene | 95-47-6 | <1.32 | | 1.32 | 06/08/2024 04:58 | C24060729.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 04:58 | C24060729.D |
| Isopropylbenzene | 98-82-8 | <1.39 | | 1.39 | 06/08/2024 04:58 | C24060729.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.39 | | 1.39 | 06/08/2024 04:58 | C24060729.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.39 | | 1.39 | 06/08/2024 04:58 | C24060729.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 04:58 | C24060729.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 04:58 | C24060729.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 04:58 | C24060729.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | | 1.19 | 06/08/2024 04:58 | C24060729.D |
| Naphthalene | 91-20-3 | <1.45 | | 1.45 | 06/08/2024 04:58 | C24060729.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | | 1.19 | 06/08/2024 04:58 | C24060729.D |
| 2-Methylnaphthalene | 91-57-6 | <1.52 | | 1.52 | 06/08/2024 04:58 | C24060729.D |
| ∉ TPH C4-C9 | | <392 | | 392 | 06/08/2024 04:58 | C24060729.D |
| ∉ TPH C10-C15 | | <335 | | 335 | 06/08/2024 04:58 | C24060729.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *88.9%* | *70-130* | | *06/08/2024 04:58* | *C24060729.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *102%* | *70-130* | | *06/08/2024 04:58* | *C24060729.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *121%* | *70-130* | | *06/08/2024 04:58* | *C24060729.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-12

## PSG-41B

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | | 0.57 | 06/08/2024 05:30 | C24060730.D |
| **1,1-Dichloroethene** | 75-35-4 | **9.41** | | 1.40 | 06/08/2024 05:30 | C24060730.D |
| Methylene Chloride | 75-09-2 | <1.32 | | 1.32 | 06/08/2024 05:30 | C24060730.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | | 0.52 | 06/08/2024 05:30 | C24060730.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **5.74** | | 1.05 | 06/08/2024 05:30 | C24060730.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.31 | | 2.31 | 06/08/2024 05:30 | C24060730.D |
| 1,1-Dichloroethane | 75-34-3 | <0.54 | | 0.54 | 06/08/2024 05:30 | C24060730.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **25.2** | | 0.87 | 06/08/2024 05:30 | C24060730.D |
| Chloroform | 67-66-3 | <1.32 | | 1.32 | 06/08/2024 05:30 | C24060730.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/08/2024 05:30 | C24060730.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | | 0.44 | 06/08/2024 05:30 | C24060730.D |
| Carbon Tetrachloride | 56-23-5 | <1.08 | | 1.08 | 06/08/2024 05:30 | C24060730.D |
| **Benzene** | 71-43-2 | **2.62** | | 2.18 | 06/08/2024 05:30 | C24060730.D |
| **Trichloroethene** | 79-01-6 | **1,370** | | 1.40 | 06/08/2024 05:30 | C24060730.D |
| 1,4-Dioxane | 123-91-1 | <1.13 | | 1.13 | 06/08/2024 05:30 | C24060730.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.40 | | 1.40 | 06/08/2024 05:30 | C24060730.D |
| Toluene | 108-88-3 | <2.89 | | 2.89 | 06/08/2024 05:30 | C24060730.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.59 | | 0.59 | 06/08/2024 05:30 | C24060730.D |
| **Tetrachloroethene** | 127-18-4 | **18.3** | | 1.13 | 06/08/2024 05:30 | C24060730.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | | 1.13 | 06/08/2024 05:30 | C24060730.D |
| Chlorobenzene | 108-90-7 | <0.54 | | 0.54 | 06/08/2024 05:30 | C24060730.D |
| Ethylbenzene | 100-41-4 | <1.36 | | 1.36 | 06/08/2024 05:30 | C24060730.D |
| p & m-Xylene | 179601-23-1 | <1.32 | | 1.32 | 06/08/2024 05:30 | C24060730.D |
| o-Xylene | 95-47-6 | <1.32 | | 1.32 | 06/08/2024 05:30 | C24060730.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 05:30 | C24060730.D |
| Isopropylbenzene | 98-82-8 | <1.39 | | 1.39 | 06/08/2024 05:30 | C24060730.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.39 | | 1.39 | 06/08/2024 05:30 | C24060730.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.39 | | 1.39 | 06/08/2024 05:30 | C24060730.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 05:30 | C24060730.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 05:30 | C24060730.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 05:30 | C24060730.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | | 1.19 | 06/08/2024 05:30 | C24060730.D |
| Naphthalene | 91-20-3 | <1.45 | | 1.45 | 06/08/2024 05:30 | C24060730.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | | 1.19 | 06/08/2024 05:30 | C24060730.D |
| 2-Methylnaphthalene | 91-57-6 | <1.52 | | 1.52 | 06/08/2024 05:30 | C24060730.D |
| ∈ TPH C4-C9 | | <392 | | 392 | 06/08/2024 05:30 | C24060730.D |
| ∈ TPH C10-C15 | | <335 | | 335 | 06/08/2024 05:30 | C24060730.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *84.6%* | *70-130* | | *06/08/2024 05:30* | *C24060730.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *97.0%* | *70-130* | | *06/08/2024 05:30* | *C24060730.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *115%* | *70-130* | | *06/08/2024 05:30* | *C24060730.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-13

## PSG-41C

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | | 0.57 | 06/08/2024 06:03 | C24060731.D |
| **1,1-Dichloroethene** | 75-35-4 | **3.50** | | 1.40 | 06/08/2024 06:03 | C24060731.D |
| Methylene Chloride | 75-09-2 | <1.32 | | 1.32 | 06/08/2024 06:03 | C24060731.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | | 0.52 | 06/08/2024 06:03 | C24060731.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **3.19** | | 1.05 | 06/08/2024 06:03 | C24060731.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.32 | | 2.32 | 06/08/2024 06:03 | C24060731.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 06:03 | C24060731.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **16.5** | | 0.87 | 06/08/2024 06:03 | C24060731.D |
| Chloroform | 67-66-3 | <1.32 | | 1.32 | 06/08/2024 06:03 | C24060731.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/08/2024 06:03 | C24060731.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | | 0.44 | 06/08/2024 06:03 | C24060731.D |
| Carbon Tetrachloride | 56-23-5 | <1.08 | | 1.08 | 06/08/2024 06:03 | C24060731.D |
| **Benzene** | 71-43-2 | **2.61** | | 2.19 | 06/08/2024 06:03 | C24060731.D |
| **Trichloroethene** | 79-01-6 | **677** | | 1.40 | 06/08/2024 06:03 | C24060731.D |
| 1,4-Dioxane | 123-91-1 | <1.13 | | 1.13 | 06/08/2024 06:03 | C24060731.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.40 | | 1.40 | 06/08/2024 06:03 | C24060731.D |
| Toluene | 108-88-3 | <2.90 | | 2.90 | 06/08/2024 06:03 | C24060731.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.59 | | 0.59 | 06/08/2024 06:03 | C24060731.D |
| Tetrachloroethene | 127-18-4 | <1.13 | | 1.13 | 06/08/2024 06:03 | C24060731.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | | 1.13 | 06/08/2024 06:03 | C24060731.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 06:03 | C24060731.D |
| Ethylbenzene | 100-41-4 | <1.36 | | 1.36 | 06/08/2024 06:03 | C24060731.D |
| p & m-Xylene | 179601-23-1 | <1.32 | | 1.32 | 06/08/2024 06:03 | C24060731.D |
| o-Xylene | 95-47-6 | <1.32 | | 1.32 | 06/08/2024 06:03 | C24060731.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 06:03 | C24060731.D |
| Isopropylbenzene | 98-82-8 | <1.40 | | 1.40 | 06/08/2024 06:03 | C24060731.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.40 | | 1.40 | 06/08/2024 06:03 | C24060731.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.40 | | 1.40 | 06/08/2024 06:03 | C24060731.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 06:03 | C24060731.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 06:03 | C24060731.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 06:03 | C24060731.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | | 1.19 | 06/08/2024 06:03 | C24060731.D |
| Naphthalene | 91-20-3 | <1.45 | | 1.45 | 06/08/2024 06:03 | C24060731.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | | 1.19 | 06/08/2024 06:03 | C24060731.D |
| 2-Methylnaphthalene | 91-57-6 | <1.52 | | 1.52 | 06/08/2024 06:03 | C24060731.D |
| ∈ TPH C4-C9 | | <393 | | 393 | 06/08/2024 06:03 | C24060731.D |
| ∈ TPH C10-C15 | | <336 | | 336 | 06/08/2024 06:03 | C24060731.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *87.0%* | *70-130* | | *06/08/2024 06:03* | *C24060731.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *94.4%* | *70-130* | | *06/08/2024 06:03* | *C24060731.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *115%* | *70-130* | | *06/08/2024 06:03* | *C24060731.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-14

## PSG-41D

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | | 0.57 | 06/08/2024 06:35 | C24060732.D |
| **1,1-Dichloroethene** | 75-35-4 | **18.2** | | 1.41 | 06/08/2024 06:35 | C24060732.D |
| Methylene Chloride | 75-09-2 | <1.33 | | 1.33 | 06/08/2024 06:35 | C24060732.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | | 0.52 | 06/08/2024 06:35 | C24060732.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **7.02** | | 1.05 | 06/08/2024 06:35 | C24060732.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.32 | | 2.32 | 06/08/2024 06:35 | C24060732.D |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | | 0.55 | 06/08/2024 06:35 | C24060732.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **32.1** | | 0.88 | 06/08/2024 06:35 | C24060732.D |
| Chloroform | 67-66-3 | <1.33 | | 1.33 | 06/08/2024 06:35 | C24060732.D |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | | 0.83 | 06/08/2024 06:35 | C24060732.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | | 0.44 | 06/08/2024 06:35 | C24060732.D |
| Carbon Tetrachloride | 56-23-5 | <1.08 | | 1.08 | 06/08/2024 06:35 | C24060732.D |
| **Benzene** | 71-43-2 | **4.48** | | 2.19 | 06/08/2024 06:35 | C24060732.D |
| **Trichloroethene** | 79-01-6 | **5,280** | D | 26.8 | 06/10/2024 15:49 | C24061005.D |
| 1,4-Dioxane | 123-91-1 | <1.13 | | 1.13 | 06/08/2024 06:35 | C24060732.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.41 | | 1.41 | 06/08/2024 06:35 | C24060732.D |
| Toluene | 108-88-3 | <2.90 | | 2.90 | 06/08/2024 06:35 | C24060732.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.59 | | 0.59 | 06/08/2024 06:35 | C24060732.D |
| **Tetrachloroethene** | 127-18-4 | **1.54** | | 1.13 | 06/08/2024 06:35 | C24060732.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | | 1.13 | 06/08/2024 06:35 | C24060732.D |
| Chlorobenzene | 108-90-7 | <0.55 | | 0.55 | 06/08/2024 06:35 | C24060732.D |
| Ethylbenzene | 100-41-4 | <1.36 | | 1.36 | 06/08/2024 06:35 | C24060732.D |
| p & m-Xylene | 179601-23-1 | <1.32 | | 1.32 | 06/08/2024 06:35 | C24060732.D |
| o-Xylene | 95-47-6 | <1.32 | | 1.32 | 06/08/2024 06:35 | C24060732.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | | 0.62 | 06/08/2024 06:35 | C24060732.D |
| Isopropylbenzene | 98-82-8 | <1.40 | | 1.40 | 06/08/2024 06:35 | C24060732.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.40 | | 1.40 | 06/08/2024 06:35 | C24060732.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.40 | | 1.40 | 06/08/2024 06:35 | C24060732.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | | 0.62 | 06/08/2024 06:35 | C24060732.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | | 0.62 | 06/08/2024 06:35 | C24060732.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | | 0.62 | 06/08/2024 06:35 | C24060732.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | | 1.19 | 06/08/2024 06:35 | C24060732.D |
| Naphthalene | 91-20-3 | <1.45 | | 1.45 | 06/08/2024 06:35 | C24060732.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | | 1.19 | 06/08/2024 06:35 | C24060732.D |
| 2-Methylnaphthalene | 91-57-6 | <1.53 | | 1.53 | 06/08/2024 06:35 | C24060732.D |
| ∉ TPH C4-C9 | | <393 | | 393 | 06/08/2024 06:35 | C24060732.D |
| ∉ TPH C10-C15 | | <336 | | 336 | 06/08/2024 06:35 | C24060732.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *92.2%* | *70-130* | | *06/08/2024 06:35* | *C24060732.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *103%* | *70-130* | | *06/10/2024 15:49* | *C24061005.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *95.0%* | *70-130* | | *06/08/2024 06:35* | *C24060732.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *103%* | *70-130* | | *06/10/2024 15:49* | *C24061005.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *120%* | *70-130* | | *06/08/2024 06:35* | *C24060732.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *107%* | *70-130* | | *06/10/2024 15:49* | *C24061005.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
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1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-15

## PSG-62A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 07:07 | C24060733.D |
| 1,1-Dichloroethene | 75-35-4 | <1.43 | | 1.43 | 06/08/2024 07:07 | C24060733.D |
| Methylene Chloride | 75-09-2 | <1.35 | | 1.35 | 06/08/2024 07:07 | C24060733.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 07:07 | C24060733.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.07 | | 1.07 | 06/08/2024 07:07 | C24060733.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.36 | | 2.36 | 06/08/2024 07:07 | C24060733.D |
| 1,1-Dichloroethane | 75-34-3 | <0.56 | | 0.56 | 06/08/2024 07:07 | C24060733.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **1.60** | | 0.89 | 06/08/2024 07:07 | C24060733.D |
| Chloroform | 67-66-3 | <1.35 | | 1.35 | 06/08/2024 07:07 | C24060733.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 07:07 | C24060733.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 07:07 | C24060733.D |
| Carbon Tetrachloride | 56-23-5 | <1.10 | | 1.10 | 06/08/2024 07:07 | C24060733.D |
| **Benzene** | 71-43-2 | **18.4** | | 2.23 | 06/08/2024 07:07 | C24060733.D |
| **Trichloroethene** | 79-01-6 | **92.1** | | 1.43 | 06/08/2024 07:07 | C24060733.D |
| 1,4-Dioxane | 123-91-1 | <1.15 | | 1.15 | 06/08/2024 07:07 | C24060733.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.43 | | 1.43 | 06/08/2024 07:07 | C24060733.D |
| **Toluene** | 108-88-3 | **16.8** | | 2.95 | 06/08/2024 07:07 | C24060733.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 07:07 | C24060733.D |
| **Tetrachloroethene** | 127-18-4 | **54.6** | | 1.15 | 06/08/2024 07:07 | C24060733.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | | 1.15 | 06/08/2024 07:07 | C24060733.D |
| Chlorobenzene | 108-90-7 | <0.56 | | 0.56 | 06/08/2024 07:07 | C24060733.D |
| **Ethylbenzene** | 100-41-4 | **1.98** | | 1.39 | 06/08/2024 07:07 | C24060733.D |
| **p & m-Xylene** | 179601-23-1 | **5.12** | | 1.34 | 06/08/2024 07:07 | C24060733.D |
| **o-Xylene** | 95-47-6 | **4.18** | | 1.34 | 06/08/2024 07:07 | C24060733.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 07:07 | C24060733.D |
| Isopropylbenzene | 98-82-8 | <1.42 | | 1.42 | 06/08/2024 07:07 | C24060733.D |
| **1,3,5-Trimethylbenzene** | 108-67-8 | **5.25** | | 1.42 | 06/08/2024 07:07 | C24060733.D |
| **1,2,4-Trimethylbenzene** | 95-63-6 | **9.50** | | 1.42 | 06/08/2024 07:07 | C24060733.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 07:07 | C24060733.D |
| **1,4-Dichlorobenzene** | 106-46-7 | **1.79** | | 0.63 | 06/08/2024 07:07 | C24060733.D |
| **1,2-Dichlorobenzene** | 95-50-1 | **3.93** | | 0.63 | 06/08/2024 07:07 | C24060733.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.21 | | 1.21 | 06/08/2024 07:07 | C24060733.D |
| **Naphthalene** | 91-20-3 | **1,050** | D | 505 | 06/10/2024 18:33 | C24061010.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.21 | | 1.21 | 06/08/2024 07:07 | C24060733.D |
| **2-Methylnaphthalene** | 91-57-6 | **832** | D | 29.6 | 06/10/2024 16:20 | C24061006.D |
| ∉ **TPH C4-C9** | | **763** | | 400 | 06/08/2024 07:07 | C24060733.D |
| ∉ **TPH C10-C15** | | **1,610** | | 342 | 06/08/2024 07:07 | C24060733.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *104%* | *70-130* | | *06/10/2024 18:33* | *C24061010.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *104%* | *70-130* | | *06/10/2024 16:20* | *C24061006.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *78.6%* | *70-130* | | *06/08/2024 07:07* | *C24060733.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *102%* | *70-130* | | *06/10/2024 18:33* | *C24061010.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *101%* | *70-130* | | *06/10/2024 16:20* | *C24061006.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *94.8%* | *70-130* | | *06/08/2024 07:07* | *C24060733.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *105%* | *70-130* | | *06/10/2024 18:33* | *C24061010.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *110%* | *70-130* | | *06/10/2024 16:20* | *C24061006.D* |

BEACON ENVIRONMENTAL

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-15

## PSG-62A

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *120%* | *70-130* | | *06/08/2024 07:07* | *C24060733.D* |

BEACON ENVIRONMENTAL

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Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-16

## DUP-02

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 07:41 | C24060734.D |
| 1,1-Dichloroethene | 75-35-4 | <1.43 | | 1.43 | 06/08/2024 07:41 | C24060734.D |
| Methylene Chloride | 75-09-2 | <1.35 | | 1.35 | 06/08/2024 07:41 | C24060734.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 07:41 | C24060734.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.07 | | 1.07 | 06/08/2024 07:41 | C24060734.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.36 | | 2.36 | 06/08/2024 07:41 | C24060734.D |
| 1,1-Dichloroethane | 75-34-3 | <0.56 | | 0.56 | 06/08/2024 07:41 | C24060734.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.89 | | 0.89 | 06/08/2024 07:41 | C24060734.D |
| Chloroform | 67-66-3 | <1.35 | | 1.35 | 06/08/2024 07:41 | C24060734.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 07:41 | C24060734.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 07:41 | C24060734.D |
| Carbon Tetrachloride | 56-23-5 | <1.10 | | 1.10 | 06/08/2024 07:41 | C24060734.D |
| **Benzene** | 71-43-2 | **5.29** | | 2.23 | 06/08/2024 07:41 | C24060734.D |
| **Trichloroethene** | 79-01-6 | **53.9** | | 1.43 | 06/08/2024 07:41 | C24060734.D |
| 1,4-Dioxane | 123-91-1 | <1.15 | | 1.15 | 06/08/2024 07:41 | C24060734.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.43 | | 1.43 | 06/08/2024 07:41 | C24060734.D |
| **Toluene** | 108-88-3 | **4.56** | | 2.95 | 06/08/2024 07:41 | C24060734.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | | 0.60 | 06/08/2024 07:41 | C24060734.D |
| **Tetrachloroethene** | 127-18-4 | **21.8** | | 1.15 | 06/08/2024 07:41 | C24060734.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | | 1.15 | 06/08/2024 07:41 | C24060734.D |
| Chlorobenzene | 108-90-7 | <0.56 | | 0.56 | 06/08/2024 07:41 | C24060734.D |
| Ethylbenzene | 100-41-4 | <1.39 | | 1.39 | 06/08/2024 07:41 | C24060734.D |
| **p & m-Xylene** | 179601-23-1 | **2.23** | | 1.34 | 06/08/2024 07:41 | C24060734.D |
| **o-Xylene** | 95-47-6 | **1.57** | | 1.34 | 06/08/2024 07:41 | C24060734.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 07:41 | C24060734.D |
| Isopropylbenzene | 98-82-8 | <1.42 | | 1.42 | 06/08/2024 07:41 | C24060734.D |
| **1,3,5-Trimethylbenzene** | 108-67-8 | **4.20** | | 1.42 | 06/08/2024 07:41 | C24060734.D |
| **1,2,4-Trimethylbenzene** | 95-63-6 | **8.21** | | 1.42 | 06/08/2024 07:41 | C24060734.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 07:41 | C24060734.D |
| **1,4-Dichlorobenzene** | 106-46-7 | **1.64** | | 0.63 | 06/08/2024 07:41 | C24060734.D |
| **1,2-Dichlorobenzene** | 95-50-1 | **3.34** | | 0.63 | 06/08/2024 07:41 | C24060734.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.21 | | 1.21 | 06/08/2024 07:41 | C24060734.D |
| **Naphthalene** | 91-20-3 | **1,210** | D | 505 | 06/10/2024 19:05 | C24061011.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.21 | | 1.21 | 06/08/2024 07:41 | C24060734.D |
| **2-Methylnaphthalene** | 91-57-6 | **964** | D | 29.6 | 06/10/2024 16:52 | C24061007.D |
| ∉ TPH C4-C9 | | <400 | | 400 | 06/08/2024 07:41 | C24060734.D |
| ∉ **TPH C10-C15** | | **1,660** | | 342 | 06/08/2024 07:41 | C24060734.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *89.2%* | *70-130* | | *06/08/2024 07:41* | *C24060734.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *104%* | *70-130* | | *06/10/2024 16:52* | *C24061007.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *107%* | *70-130* | | *06/10/2024 19:05* | *C24061011.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *91.3%* | *70-130* | | *06/08/2024 07:41* | *C24060734.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *101%* | *70-130* | | *06/10/2024 16:52* | *C24061007.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *103%* | *70-130* | | *06/10/2024 19:05* | *C24061011.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *126%* | *70-130* | | *06/08/2024 07:41* | *C24060734.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *107%* | *70-130* | | *06/10/2024 19:05* | *C24061011.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-16

## DUP-02

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (ng) | Q | LOQ (ng) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *114%* | *70-130* | | *06/10/2024 16:52* | *C24061007.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-17

## PSG-62B

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 08:13 | C24060735.D |
| **1,1-Dichloroethene** | 75-35-4 | **3.16** | | 1.43 | 06/08/2024 08:13 | C24060735.D |
| Methylene Chloride | 75-09-2 | <1.35 | | 1.35 | 06/08/2024 08:13 | C24060735.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 08:13 | C24060735.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **17.9** | | 1.07 | 06/08/2024 08:13 | C24060735.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.36 | | 2.36 | 06/08/2024 08:13 | C24060735.D |
| 1,1-Dichloroethane | 75-34-3 | <0.56 | | 0.56 | 06/08/2024 08:13 | C24060735.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **26.6** | | 0.89 | 06/08/2024 08:13 | C24060735.D |
| Chloroform | 67-66-3 | <1.35 | | 1.35 | 06/08/2024 08:13 | C24060735.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 08:13 | C24060735.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 08:13 | C24060735.D |
| Carbon Tetrachloride | 56-23-5 | <1.10 | | 1.10 | 06/08/2024 08:13 | C24060735.D |
| **Benzene** | 71-43-2 | **2.87** | | 2.23 | 06/08/2024 08:13 | C24060735.D |
| **Trichloroethene** | 79-01-6 | **344** | | 1.43 | 06/08/2024 08:13 | C24060735.D |
| **1,4-Dioxane** | 123-91-1 | **1.56** | | 1.15 | 06/08/2024 08:13 | C24060735.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.43 | | 1.43 | 06/08/2024 08:13 | C24060735.D |
| Toluene | 108-88-3 | <2.95 | | 2.95 | 06/08/2024 08:13 | C24060735.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.61 | | 0.61 | 06/08/2024 08:13 | C24060735.D |
| **Tetrachloroethene** | 127-18-4 | **3.71** | | 1.15 | 06/08/2024 08:13 | C24060735.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | | 1.15 | 06/08/2024 08:13 | C24060735.D |
| Chlorobenzene | 108-90-7 | <0.56 | | 0.56 | 06/08/2024 08:13 | C24060735.D |
| Ethylbenzene | 100-41-4 | <1.39 | | 1.39 | 06/08/2024 08:13 | C24060735.D |
| **p & m-Xylene** | 179601-23-1 | **2.27** | | 1.34 | 06/08/2024 08:13 | C24060735.D |
| o-Xylene | 95-47-6 | <1.34 | | 1.34 | 06/08/2024 08:13 | C24060735.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 08:13 | C24060735.D |
| Isopropylbenzene | 98-82-8 | <1.42 | | 1.42 | 06/08/2024 08:13 | C24060735.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.42 | | 1.42 | 06/08/2024 08:13 | C24060735.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.42 | | 1.42 | 06/08/2024 08:13 | C24060735.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 08:13 | C24060735.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.63 | | 0.63 | 06/08/2024 08:13 | C24060735.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.63 | | 0.63 | 06/08/2024 08:13 | C24060735.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.21 | | 1.21 | 06/08/2024 08:13 | C24060735.D |
| **Naphthalene** | 91-20-3 | **16.5** | | 1.48 | 06/08/2024 08:13 | C24060735.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.21 | | 1.21 | 06/08/2024 08:13 | C24060735.D |
| **2-Methylnaphthalene** | 91-57-6 | **7.40** | | 1.55 | 06/08/2024 08:13 | C24060735.D |
| ∉ **TPH C4-C9** | | **678** | | 400 | 06/08/2024 08:13 | C24060735.D |
| ∉ TPH C10-C15 | | <342 | | 342 | 06/08/2024 08:13 | C24060735.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *86.0%* | *70-130* | | *06/08/2024 08:13* | *C24060735.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *95.1%* | *70-130* | | *06/08/2024 08:13* | *C24060735.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *126%* | *70-130* | | *06/08/2024 08:13* | *C24060735.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-18

## PSG-62C

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 08:46 | C24060736.D |
| 1,1-Dichloroethene | 75-35-4 | <1.43 | | 1.43 | 06/08/2024 08:46 | C24060736.D |
| Methylene Chloride | 75-09-2 | <1.35 | | 1.35 | 06/08/2024 08:46 | C24060736.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 08:46 | C24060736.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.07 | | 1.07 | 06/08/2024 08:46 | C24060736.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.36 | | 2.36 | 06/08/2024 08:46 | C24060736.D |
| 1,1-Dichloroethane | 75-34-3 | <0.56 | | 0.56 | 06/08/2024 08:46 | C24060736.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **1.97** | | 0.89 | 06/08/2024 08:46 | C24060736.D |
| Chloroform | 67-66-3 | <1.35 | | 1.35 | 06/08/2024 08:46 | C24060736.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 08:46 | C24060736.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 08:46 | C24060736.D |
| Carbon Tetrachloride | 56-23-5 | <1.10 | | 1.10 | 06/08/2024 08:46 | C24060736.D |
| **Benzene** | 71-43-2 | **4.69** | | 2.23 | 06/08/2024 08:46 | C24060736.D |
| **Trichloroethene** | 79-01-6 | **149** | | 1.43 | 06/08/2024 08:46 | C24060736.D |
| **1,4-Dioxane** | 123-91-1 | **1.46** | | 1.15 | 06/08/2024 08:46 | C24060736.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.43 | | 1.43 | 06/08/2024 08:46 | C24060736.D |
| **Toluene** | 108-88-3 | **3.94** | | 2.95 | 06/08/2024 08:46 | C24060736.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.61 | | 0.61 | 06/08/2024 08:46 | C24060736.D |
| **Tetrachloroethene** | 127-18-4 | **2.80** | | 1.15 | 06/08/2024 08:46 | C24060736.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | | 1.15 | 06/08/2024 08:46 | C24060736.D |
| Chlorobenzene | 108-90-7 | <0.56 | | 0.56 | 06/08/2024 08:46 | C24060736.D |
| Ethylbenzene | 100-41-4 | <1.39 | | 1.39 | 06/08/2024 08:46 | C24060736.D |
| p & m-Xylene | 179601-23-1 | <1.34 | | 1.34 | 06/08/2024 08:46 | C24060736.D |
| o-Xylene | 95-47-6 | <1.34 | | 1.34 | 06/08/2024 08:46 | C24060736.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 08:46 | C24060736.D |
| Isopropylbenzene | 98-82-8 | <1.42 | | 1.42 | 06/08/2024 08:46 | C24060736.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.42 | | 1.42 | 06/08/2024 08:46 | C24060736.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.42 | | 1.42 | 06/08/2024 08:46 | C24060736.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 08:46 | C24060736.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.63 | | 0.63 | 06/08/2024 08:46 | C24060736.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.63 | | 0.63 | 06/08/2024 08:46 | C24060736.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.21 | | 1.21 | 06/08/2024 08:46 | C24060736.D |
| **Naphthalene** | 91-20-3 | **7.13** | | 1.48 | 06/08/2024 08:46 | C24060736.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.21 | | 1.21 | 06/08/2024 08:46 | C24060736.D |
| **2-Methylnaphthalene** | 91-57-6 | **2.52** | | 1.55 | 06/08/2024 08:46 | C24060736.D |
| ∉ TPH C4-C9 | | <400 | | 400 | 06/08/2024 08:46 | C24060736.D |
| ∉ TPH C10-C15 | | <342 | | 342 | 06/08/2024 08:46 | C24060736.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *79.3%* | *70-130* | | *06/08/2024 08:46* | *C24060736.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *100%* | *70-130* | | *06/08/2024 08:46* | *C24060736.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *120%* | *70-130* | | *06/08/2024 08:46* | *C24060736.D* |

BEACON ENVIRONMENTAL

526 Underwood Lane
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1.410.838.8780

# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Lab Sample ID: 0007787-19

## PSG-62D

Soil Gas

Method: EPA 8260C

| Analyte | CAS# | Result (µg/m³) | Q | LOQ (µg/m³) | Analyzed | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | | 0.58 | 06/08/2024 09:18 | C24060737.D |
| **1,1-Dichloroethene** | 75-35-4 | **16.9** | | 1.43 | 06/08/2024 09:18 | C24060737.D |
| Methylene Chloride | 75-09-2 | <1.35 | | 1.35 | 06/08/2024 09:18 | C24060737.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | | 0.53 | 06/08/2024 09:18 | C24060737.D |
| **trans-1,2-Dichloroethene** | 156-60-5 | **12.6** | | 1.07 | 06/08/2024 09:18 | C24060737.D |
| Methyl-t-butyl ether | 1634-04-4 | <2.36 | | 2.36 | 06/08/2024 09:18 | C24060737.D |
| 1,1-Dichloroethane | 75-34-3 | <0.56 | | 0.56 | 06/08/2024 09:18 | C24060737.D |
| **cis-1,2-Dichloroethene** | 156-59-2 | **46.6** | | 0.89 | 06/08/2024 09:18 | C24060737.D |
| Chloroform | 67-66-3 | <1.35 | | 1.35 | 06/08/2024 09:18 | C24060737.D |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | | 0.84 | 06/08/2024 09:18 | C24060737.D |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | | 0.45 | 06/08/2024 09:18 | C24060737.D |
| Carbon Tetrachloride | 56-23-5 | <1.10 | | 1.10 | 06/08/2024 09:18 | C24060737.D |
| **Benzene** | 71-43-2 | **8.47** | | 2.23 | 06/08/2024 09:18 | C24060737.D |
| **Trichloroethene** | 79-01-6 | **6,440** | D | 27.3 | 06/10/2024 17:24 | C24061008.D |
| 1,4-Dioxane | 123-91-1 | <1.15 | | 1.15 | 06/08/2024 09:18 | C24060737.D |
| 1,1,2-Trichloroethane | 79-00-5 | <1.43 | | 1.43 | 06/08/2024 09:18 | C24060737.D |
| **Toluene** | 108-88-3 | **5.70** | | 2.95 | 06/08/2024 09:18 | C24060737.D |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.61 | | 0.61 | 06/08/2024 09:18 | C24060737.D |
| **Tetrachloroethene** | 127-18-4 | **301** | | 1.15 | 06/08/2024 09:18 | C24060737.D |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | | 1.15 | 06/08/2024 09:18 | C24060737.D |
| Chlorobenzene | 108-90-7 | <0.56 | | 0.56 | 06/08/2024 09:18 | C24060737.D |
| Ethylbenzene | 100-41-4 | <1.39 | | 1.39 | 06/08/2024 09:18 | C24060737.D |
| p & m-Xylene | 179601-23-1 | <1.34 | | 1.34 | 06/08/2024 09:18 | C24060737.D |
| o-Xylene | 95-47-6 | <1.34 | | 1.34 | 06/08/2024 09:18 | C24060737.D |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | | 0.63 | 06/08/2024 09:18 | C24060737.D |
| Isopropylbenzene | 98-82-8 | <1.42 | | 1.42 | 06/08/2024 09:18 | C24060737.D |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.42 | | 1.42 | 06/08/2024 09:18 | C24060737.D |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.42 | | 1.42 | 06/08/2024 09:18 | C24060737.D |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | | 0.63 | 06/08/2024 09:18 | C24060737.D |
| 1,4-Dichlorobenzene | 106-46-7 | <0.63 | | 0.63 | 06/08/2024 09:18 | C24060737.D |
| 1,2-Dichlorobenzene | 95-50-1 | <0.63 | | 0.63 | 06/08/2024 09:18 | C24060737.D |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.21 | | 1.21 | 06/08/2024 09:18 | C24060737.D |
| Naphthalene | 91-20-3 | <1.48 | | 1.48 | 06/08/2024 09:18 | C24060737.D |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.21 | | 1.21 | 06/08/2024 09:18 | C24060737.D |
| 2-Methylnaphthalene | 91-57-6 | <1.55 | | 1.55 | 06/08/2024 09:18 | C24060737.D |
| ∉ TPH C4-C9 | | <400 | | 400 | 06/08/2024 09:18 | C24060737.D |
| ∉ TPH C10-C15 | | <342 | | 342 | 06/08/2024 09:18 | C24060737.D |

| *Analyte* | *CAS#* | *% Recovery* | *Recovery Limits* | *Q* | *Analyzed* | *File ID* |
|---|---|---|---|---|---|---|
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *88.5%* | *70-130* | | *06/08/2024 09:18* | *C24060737.D* |
| *Surrogate: 1,2-DCA-d4* | 17060-07-0 | *101%* | *70-130* | | *06/10/2024 17:24* | *C24061008.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *95.9%* | *70-130* | | *06/08/2024 09:18* | *C24060737.D* |
| *Surrogate: Toluene-d8* | 2037-26-5 | *102%* | *70-130* | | *06/10/2024 17:24* | *C24061008.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *120%* | *70-130* | | *06/08/2024 09:18* | *C24060737.D* |
| *Surrogate: Bromofluorobenzene* | 460-00-4 | *108%* | *70-130* | | *06/10/2024 17:24* | *C24061008.D* |

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1.410.838.8780

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# *QC Information/Summary*

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary*

**Sequence: B24D057 - Instrument: C System - File ID: Ca24041626.D**

***B24D057-ICV1 (LCSD/Second Source Verification/CALV)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 48.5 | 10 | ng | 50.0 | | 97.0 | 70-130 | | | |
| 1,1-Dichloroethene | 46.2 | 10 | ng | 50.0 | | 92.4 | 70-130 | | | |
| Methylene Chloride | 48.6 | 10 | ng | 50.0 | | 97.2 | 70-130 | | | |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 50.9 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 49.0 | 10 | ng | 50.0 | | 98.0 | 70-130 | | | |
| Methyl-t-butyl ether | 44.6 | 25 | ng | 50.0 | | 89.1 | 70-130 | | | |
| 1,1-Dichloroethane | 48.9 | 10 | ng | 50.0 | | 97.7 | 70-130 | | | |
| cis-1,2-Dichloroethene | 49.3 | 10 | ng | 50.0 | | 98.5 | 70-130 | | | |
| Chloroform | 51.1 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| 1,2-Dichloroethane | 49.8 | 10 | ng | 50.0 | | 99.5 | 70-130 | | | |
| 1,1,1-Trichloroethane | 49.6 | 10 | ng | 50.0 | | 99.2 | 70-130 | | | |
| Carbon Tetrachloride | 52.6 | 10 | ng | 50.0 | | 105 | 70-130 | | | |
| Benzene | 54.0 | 25 | ng | 50.0 | | 108 | 70-130 | | | |
| Trichloroethene | 51.2 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| 1,4-Dioxane | 48.7 | 10 | ng | 50.0 | | 97.4 | 70-130 | | | |
| 1,1,2-Trichloroethane | 51.6 | 10 | ng | 50.0 | | 103 | 70-130 | | | |
| Toluene | 57.0 | 25 | ng | 50.0 | | 114 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 51.3 | 5 | ng | 50.0 | | 103 | 70-130 | | | |
| Tetrachloroethene | 53.5 | 10 | ng | 50.0 | | 107 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 52.0 | 10 | ng | 50.0 | | 104 | 70-130 | | | |
| Chlorobenzene | 49.7 | 10 | ng | 50.0 | | 99.4 | 70-130 | | | |
| Ethylbenzene | 54.7 | 25 | ng | 50.0 | | 109 | 70-130 | | | |
| p & m-Xylene | 55.5 | 25 | ng | 50.0 | | 111 | 70-130 | | | |
| o-Xylene | 55.8 | 25 | ng | 50.0 | | 112 | 70-130 | | | |
| 1,2,3-Trichloropropane | 52.6 | 10 | ng | 50.0 | | 105 | 70-130 | | | |
| Isopropylbenzene | 51.2 | 25 | ng | 50.0 | | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 50.9 | 25 | ng | 50.0 | | 102 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 50.1 | 25 | ng | 50.0 | | 100 | 70-130 | | | |
| 1,3-Dichlorobenzene | 50.1 | 10 | ng | 50.0 | | 100 | 70-130 | | | |
| 1,4-Dichlorobenzene | 48.8 | 10 | ng | 50.0 | | 97.7 | 70-130 | | | |
| 1,2-Dichlorobenzene | 51.1 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 51.9 | 10 | ng | 50.0 | | 104 | 70-130 | | | |
| Naphthalene | 55.2 | 25 | ng | 50.0 | | 110 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 54.9 | 10 | ng | 50.0 | | 110 | 70-130 | | | |
| 2-Methylnaphthalene | 51.5 | 25 | ng | 50.0 | | 103 | 70-130 | | | |
| *Surrogate: 1,2-DCA-d4* | *49.8* | | *ng* | 50.0 | | *99.7* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *52.1* | | *ng* | 50.0 | | *104* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *53.6* | | *ng* | 50.0 | | *107* | *70-130* | | | |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary*

**Sequence: B24D057 - Instrument: C System - File ID: Ca24041627.D**

***B24D057-ICB1 (Lab Blank/Initial Calibration Blank)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | <5 | 10 | ng | | | | | | | U |
| 1,1-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Methylene Chloride | <5 | 10 | ng | | | | | | | U |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | <5 | 10 | ng | | | | | | | U |
| trans-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Methyl-t-butyl ether | <10 | 25 | ng | | | | | | | U |
| 1,1-Dichloroethane | <5 | 10 | ng | | | | | | | U |
| cis-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Chloroform | <5 | 10 | ng | | | | | | | U |
| 1,2-Dichloroethane | <5 | 10 | ng | | | | | | | U |
| 1,1,1-Trichloroethane | <5 | 10 | ng | | | | | | | U |
| Carbon Tetrachloride | <5 | 10 | ng | | | | | | | U |
| Benzene | <10 | 25 | ng | | | | | | | U |
| Trichloroethene | <5 | 10 | ng | | | | | | | U |
| 1,4-Dioxane | <5 | 10 | ng | | | | | | | U |
| 1,1,2-Trichloroethane | <5 | 10 | ng | | | | | | | U |
| Toluene | <10 | 25 | ng | | | | | | | U |
| 1,2-Dibromoethane (EDB) | <2.5 | 5 | ng | | | | | | | U |
| Tetrachloroethene | <5 | 10 | ng | | | | | | | U |
| 1,1,1,2-Tetrachloroethane | <5 | 10 | ng | | | | | | | U |
| Chlorobenzene | <5 | 10 | ng | | | | | | | U |
| Ethylbenzene | <10 | 25 | ng | | | | | | | U |
| p & m-Xylene | <10 | 25 | ng | | | | | | | U |
| o-Xylene | <10 | 25 | ng | | | | | | | U |
| 1,2,3-Trichloropropane | <5 | 10 | ng | | | | | | | U |
| Isopropylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,3,5-Trimethylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,2,4-Trimethylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,3-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,4-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,2-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,2,4-Trichlorobenzene | <5 | 10 | ng | | | | | | | U |
| Naphthalene | <10 | 25 | ng | | | | | | | U |
| 1,2,3-Trichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 2-Methylnaphthalene | <10 | 25 | ng | | | | | | | U |
| *Surrogate: 1,2-DCA-d4* | *102* | | *ng* | 100 | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *107* | | *ng* | 100 | | *107* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *105* | | *ng* | 100 | | *105* | *70-130* | | | |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary*

**Sequence: B24F027 - Batch: 24F0024 - Instrument: C System - File ID: C24060702.D**

***24F0024-BS1 (LCS, Calibration Source Verification)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 45.5 | 10 | ng | 50.0 | | 91.1 | 80-120 | | | |
| 1,1-Dichloroethene | 47.8 | 10 | ng | 50.0 | | 95.7 | 80-120 | | | |
| Methylene Chloride | 56.9 | 10 | ng | 50.0 | | 114 | 80-120 | | | |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 58.1 | 10 | ng | 50.0 | | 116 | 80-120 | | | |
| trans-1,2-Dichloroethene | 51.2 | 10 | ng | 50.0 | | 102 | 80-120 | | | |
| Methyl-t-butyl ether | 40.2 | 25 | ng | 50.0 | | 80.4 | 80-120 | | | |
| 1,1-Dichloroethane | 50.9 | 10 | ng | 50.0 | | 102 | 80-120 | | | |
| cis-1,2-Dichloroethene | 51.7 | 10 | ng | 50.0 | | 103 | 80-120 | | | |
| Chloroform | 57.9 | 10 | ng | 50.0 | | 116 | 80-120 | | | |
| 1,2-Dichloroethane | 53.5 | 10 | ng | 50.0 | | 107 | 80-120 | | | |
| 1,1,1-Trichloroethane | 50.0 | 10 | ng | 50.0 | | 99.9 | 80-120 | | | |
| Carbon Tetrachloride | 57.7 | 10 | ng | 50.0 | | 115 | 80-120 | | | |
| Benzene | 51.5 | 25 | ng | 50.0 | | 103 | 80-120 | | | |
| Trichloroethene | 52.9 | 10 | ng | 50.0 | | 106 | 80-120 | | | |
| 1,4-Dioxane | 44.2 | 10 | ng | 50.0 | | 88.3 | 80-120 | | | |
| 1,1,2-Trichloroethane | 54.5 | 10 | ng | 50.0 | | 109 | 80-120 | | | |
| Toluene | 50.9 | 25 | ng | 50.0 | | 102 | 80-120 | | | |
| 1,2-Dibromoethane (EDB) | 53.6 | 5 | ng | 50.0 | | 107 | 80-120 | | | |
| Tetrachloroethene | 54.9 | 10 | ng | 50.0 | | 110 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 56.5 | 10 | ng | 50.0 | | 113 | 80-120 | | | |
| Chlorobenzene | 50.8 | 10 | ng | 50.0 | | 102 | 80-120 | | | |
| Ethylbenzene | 46.3 | 25 | ng | 50.0 | | 92.6 | 80-120 | | | |
| p & m-Xylene | 45.2 | 25 | ng | 50.0 | | 90.5 | 80-120 | | | |
| o-Xylene | 45.3 | 25 | ng | 50.0 | | 90.5 | 80-120 | | | |
| 1,2,3-Trichloropropane | 53.3 | 10 | ng | 50.0 | | 107 | 80-120 | | | |
| Isopropylbenzene | 41.7 | 25 | ng | 50.0 | | 83.4 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 45.0 | 25 | ng | 50.0 | | 90.0 | 80-120 | | | |
| 1,2,4-Trimethylbenzene | 44.3 | 25 | ng | 50.0 | | 88.6 | 80-120 | | | |
| 1,3-Dichlorobenzene | 59.5 | 10 | ng | 50.0 | | 119 | 80-120 | | | |
| 1,4-Dichlorobenzene | 59.5 | 10 | ng | 50.0 | | 119 | 80-120 | | | |
| 1,2-Dichlorobenzene | 59.1 | 10 | ng | 50.0 | | 118 | 80-120 | | | |
| 1,2,4-Trichlorobenzene | 56.2 | 10 | ng | 50.0 | | 112 | 80-120 | | | |
| Naphthalene | 42.9 | 25 | ng | 50.0 | | 85.9 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 57.7 | 10 | ng | 50.0 | | 115 | 80-120 | | | |
| 2-Methylnaphthalene | 41.0 | 25 | ng | 50.0 | | 81.9 | 80-120 | | | |
| *Surrogate: 1,2-DCA-d4* | *58.0* | | *ng* | 50.0 | | *116* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *49.6* | | *ng* | 50.0 | | *99.2* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *57.7* | | *ng* | 50.0 | | *115* | *70-130* | | | |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary*

**Sequence: B24F027 - Batch: 24F0024 - Instrument: C System - File ID: C24060703.D**

***24F0024-BLK1 (Lab Blank)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | <0.572 | 0.572 | µg/m³ | | | | | | | U |
| 1,1-Dichloroethene | <1.40 | 1.40 | µg/m³ | | | | | | | U |
| Methylene Chloride | <1.32 | 1.32 | µg/m³ | | | | | | | U |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | <0.520 | 0.520 | µg/m³ | | | | | | | U |
| trans-1,2-Dichloroethene | <1.05 | 1.05 | µg/m³ | | | | | | | U |
| Methyl-t-butyl ether | <2.31 | 2.31 | µg/m³ | | | | | | | U |
| 1,1-Dichloroethane | <0.545 | 0.545 | µg/m³ | | | | | | | U |
| cis-1,2-Dichloroethene | <0.873 | 0.873 | µg/m³ | | | | | | | U |
| Chloroform | <1.32 | 1.32 | µg/m³ | | | | | | | U |
| 1,2-Dichloroethane | <0.827 | 0.827 | µg/m³ | | | | | | | U |
| 1,1,1-Trichloroethane | <0.441 | 0.441 | µg/m³ | | | | | | | U |
| Carbon Tetrachloride | <1.08 | 1.08 | µg/m³ | | | | | | | U |
| Benzene | <2.18 | 2.18 | µg/m³ | | | | | | | U |
| Trichloroethene | <1.40 | 1.40 | µg/m³ | | | | | | | U |
| 1,4-Dioxane | <1.13 | 1.13 | µg/m³ | | | | | | | U |
| 1,1,2-Trichloroethane | <1.40 | 1.40 | µg/m³ | | | | | | | U |
| Toluene | <2.89 | 2.89 | µg/m³ | | | | | | | U |
| 1,2-Dibromoethane (EDB) | <0.594 | 0.594 | µg/m³ | | | | | | | U |
| Tetrachloroethene | <1.13 | 1.13 | µg/m³ | | | | | | | U |
| 1,1,1,2-Tetrachloroethane | <1.13 | 1.13 | µg/m³ | | | | | | | U |
| Chlorobenzene | <0.545 | 0.545 | µg/m³ | | | | | | | U |
| Ethylbenzene | <1.36 | 1.36 | µg/m³ | | | | | | | U |
| p & m-Xylene | <1.32 | 1.32 | µg/m³ | | | | | | | U |
| o-Xylene | <1.32 | 1.32 | µg/m³ | | | | | | | U |
| 1,2,3-Trichloropropane | <0.617 | 0.617 | µg/m³ | | | | | | | U |
| Isopropylbenzene | <1.39 | 1.39 | µg/m³ | | | | | | | U |
| 1,3,5-Trimethylbenzene | <1.39 | 1.39 | µg/m³ | | | | | | | U |
| 1,2,4-Trimethylbenzene | <1.39 | 1.39 | µg/m³ | | | | | | | U |
| 1,3-Dichlorobenzene | <0.617 | 0.617 | µg/m³ | | | | | | | U |
| 1,4-Dichlorobenzene | <0.617 | 0.617 | µg/m³ | | | | | | | U |
| 1,2-Dichlorobenzene | <0.617 | 0.617 | µg/m³ | | | | | | | U |
| 1,2,4-Trichlorobenzene | <1.19 | 1.19 | µg/m³ | | | | | | | U |
| Naphthalene | <1.45 | 1.45 | µg/m³ | | | | | | | U |
| 1,2,3-Trichlorobenzene | <1.19 | 1.19 | µg/m³ | | | | | | | U |
| 2-Methylnaphthalene | <1.52 | 1.52 | µg/m³ | | | | | | | U |
| *Surrogate: 1,2-DCA-d4* | *117* | | *ng* | 100 | | *117* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *101* | | *ng* | 100 | | *101* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *105* | | *ng* | 100 | | *105* | *70-130* | | | |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary*

**Sequence: B24F027 - Batch: 24F0024 - Instrument: C System - File ID: C24060703.D**

***24F0024-BLK1 (Lab Blank)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | <5 | 10 | ng | | | | | | | U |
| 1,1-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Methylene Chloride | <5 | 10 | ng | | | | | | | U |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | <5 | 10 | ng | | | | | | | U |
| trans-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Methyl-t-butyl ether | <10 | 25 | ng | | | | | | | U |
| 1,1-Dichloroethane | <5 | 10 | ng | | | | | | | U |
| cis-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Chloroform | <5 | 10 | ng | | | | | | | U |
| 1,2-Dichloroethane | <5 | 10 | ng | | | | | | | U |
| 1,1,1-Trichloroethane | <5 | 10 | ng | | | | | | | U |
| Carbon Tetrachloride | <5 | 10 | ng | | | | | | | U |
| Benzene | <10 | 25 | ng | | | | | | | U |
| Trichloroethene | <5 | 10 | ng | | | | | | | U |
| 1,4-Dioxane | <5 | 10 | ng | | | | | | | U |
| 1,1,2-Trichloroethane | <5 | 10 | ng | | | | | | | U |
| Toluene | <10 | 25 | ng | | | | | | | U |
| 1,2-Dibromoethane (EDB) | <3 | 5 | ng | | | | | | | U |
| Tetrachloroethene | <5 | 10 | ng | | | | | | | U |
| 1,1,1,2-Tetrachloroethane | <5 | 10 | ng | | | | | | | U |
| Chlorobenzene | <5 | 10 | ng | | | | | | | U |
| Ethylbenzene | <10 | 25 | ng | | | | | | | U |
| p & m-Xylene | <10 | 25 | ng | | | | | | | U |
| o-Xylene | <10 | 25 | ng | | | | | | | U |
| 1,2,3-Trichloropropane | <5 | 10 | ng | | | | | | | U |
| Isopropylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,3,5-Trimethylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,2,4-Trimethylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,3-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,4-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,2-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,2,4-Trichlorobenzene | <5 | 10 | ng | | | | | | | U |
| Naphthalene | <10 | 25 | ng | | | | | | | U |
| 1,2,3-Trichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 2-Methylnaphthalene | <10 | 25 | ng | | | | | | | U |
| *Surrogate: 1,2-DCA-d4* | *117* | | *ng* | 100 | | *117* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *101* | | *ng* | 100 | | *101* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *105* | | *ng* | 100 | | *105* | *70-130* | | | |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary*

**Sequence: B24F027 - Instrument: C System - File ID: C24060704.D**

***B24F027-ICV1 (LCSD/Second Source Verification/CALV)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 50.9 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| 1,1-Dichloroethene | 50.2 | 10 | ng | 50.0 | | 100 | 70-130 | | | |
| Methylene Chloride | 57.6 | 10 | ng | 50.0 | | 115 | 70-130 | | | |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 63.1 | 10 | ng | 50.0 | | 126 | 70-130 | | | |
| trans-1,2-Dichloroethene | 55.0 | 10 | ng | 50.0 | | 110 | 70-130 | | | |
| Methyl-t-butyl ether | 40.3 | 25 | ng | 50.0 | | 80.5 | 70-130 | | | |
| 1,1-Dichloroethane | 52.6 | 10 | ng | 50.0 | | 105 | 70-130 | | | |
| cis-1,2-Dichloroethene | 52.5 | 10 | ng | 50.0 | | 105 | 70-130 | | | |
| Chloroform | 58.5 | 10 | ng | 50.0 | | 117 | 70-130 | | | |
| 1,2-Dichloroethane | 54.5 | 10 | ng | 50.0 | | 109 | 70-130 | | | |
| 1,1,1-Trichloroethane | 51.8 | 10 | ng | 50.0 | | 104 | 70-130 | | | |
| Carbon Tetrachloride | 58.9 | 10 | ng | 50.0 | | 118 | 70-130 | | | |
| Benzene | 52.3 | 25 | ng | 50.0 | | 105 | 70-130 | | | |
| Trichloroethene | 54.3 | 10 | ng | 50.0 | | 109 | 70-130 | | | |
| 1,4-Dioxane | 42.6 | 10 | ng | 50.0 | | 85.3 | 70-130 | | | |
| 1,1,2-Trichloroethane | 54.0 | 10 | ng | 50.0 | | 108 | 70-130 | | | |
| Toluene | 52.4 | 25 | ng | 50.0 | | 105 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 54.0 | 5 | ng | 50.0 | | 108 | 70-130 | | | |
| Tetrachloroethene | 57.1 | 10 | ng | 50.0 | | 114 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 56.1 | 10 | ng | 50.0 | | 112 | 70-130 | | | |
| Chlorobenzene | 51.4 | 10 | ng | 50.0 | | 103 | 70-130 | | | |
| Ethylbenzene | 46.6 | 25 | ng | 50.0 | | 93.1 | 70-130 | | | |
| p & m-Xylene | 45.8 | 25 | ng | 50.0 | | 91.5 | 70-130 | | | |
| o-Xylene | 44.8 | 25 | ng | 50.0 | | 89.6 | 70-130 | | | |
| 1,2,3-Trichloropropane | 51.8 | 10 | ng | 50.0 | | 104 | 70-130 | | | |
| Isopropylbenzene | 41.8 | 25 | ng | 50.0 | | 83.5 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 45.1 | 25 | ng | 50.0 | | 90.1 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 45.7 | 25 | ng | 50.0 | | 91.3 | 70-130 | | | |
| 1,3-Dichlorobenzene | 58.5 | 10 | ng | 50.0 | | 117 | 70-130 | | | |
| 1,4-Dichlorobenzene | 58.9 | 10 | ng | 50.0 | | 118 | 70-130 | | | |
| 1,2-Dichlorobenzene | 57.7 | 10 | ng | 50.0 | | 115 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 56.2 | 10 | ng | 50.0 | | 112 | 70-130 | | | |
| Naphthalene | 41.2 | 25 | ng | 50.0 | | 82.5 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 55.6 | 10 | ng | 50.0 | | 111 | 70-130 | | | |
| 2-Methylnaphthalene | 36.4 | 25 | ng | 50.0 | | 72.7 | 70-130 | | | |
| *Surrogate: 1,2-DCA-d4* | *57.0* | | *ng* | 50.0 | | *114* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *50.1* | | *ng* | 50.0 | | *100* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *54.8* | | *ng* | 50.0 | | *110* | *70-130* | | | |

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| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary*

**Sequence: B24F031 - Batch: 24F0028 - Instrument: C System - File ID: C24061002.D**

***24F0028-BS1 (LCS, Calibration Source Verification)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 40.0 | 10 | ng | 50.0 | | 80.0 | 80-120 | | | |
| 1,1-Dichloroethene | 46.8 | 10 | ng | 50.0 | | 93.5 | 80-120 | | | |
| Methylene Chloride | 51.9 | 10 | ng | 50.0 | | 104 | 80-120 | | | |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 54.2 | 10 | ng | 50.0 | | 108 | 80-120 | | | |
| trans-1,2-Dichloroethene | 50.5 | 10 | ng | 50.0 | | 101 | 80-120 | | | |
| Methyl-t-butyl ether | 43.9 | 25 | ng | 50.0 | | 87.7 | 80-120 | | | |
| 1,1-Dichloroethane | 46.9 | 10 | ng | 50.0 | | 93.8 | 80-120 | | | |
| cis-1,2-Dichloroethene | 50.6 | 10 | ng | 50.0 | | 101 | 80-120 | | | |
| Chloroform | 50.0 | 10 | ng | 50.0 | | 100 | 80-120 | | | |
| 1,2-Dichloroethane | 49.4 | 10 | ng | 50.0 | | 98.8 | 80-120 | | | |
| 1,1,1-Trichloroethane | 46.9 | 10 | ng | 50.0 | | 93.7 | 80-120 | | | |
| Carbon Tetrachloride | 52.7 | 10 | ng | 50.0 | | 105 | 80-120 | | | |
| Benzene | 49.4 | 25 | ng | 50.0 | | 98.8 | 80-120 | | | |
| Trichloroethene | 51.2 | 10 | ng | 50.0 | | 102 | 80-120 | | | |
| 1,4-Dioxane | 47.1 | 10 | ng | 50.0 | | 94.1 | 80-120 | | | |
| 1,1,2-Trichloroethane | 51.1 | 10 | ng | 50.0 | | 102 | 80-120 | | | |
| Toluene | 51.2 | 25 | ng | 50.0 | | 102 | 80-120 | | | |
| 1,2-Dibromoethane (EDB) | 49.7 | 5 | ng | 50.0 | | 99.5 | 80-120 | | | |
| Tetrachloroethene | 51.8 | 10 | ng | 50.0 | | 104 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 50.1 | 10 | ng | 50.0 | | 100 | 80-120 | | | |
| Chlorobenzene | 48.7 | 10 | ng | 50.0 | | 97.5 | 80-120 | | | |
| Ethylbenzene | 48.3 | 25 | ng | 50.0 | | 96.6 | 80-120 | | | |
| p & m-Xylene | 48.7 | 25 | ng | 50.0 | | 97.5 | 80-120 | | | |
| o-Xylene | 48.4 | 25 | ng | 50.0 | | 96.8 | 80-120 | | | |
| 1,2,3-Trichloropropane | 45.9 | 10 | ng | 50.0 | | 91.8 | 80-120 | | | |
| Isopropylbenzene | 44.8 | 25 | ng | 50.0 | | 89.7 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 44.5 | 25 | ng | 50.0 | | 89.1 | 80-120 | | | |
| 1,2,4-Trimethylbenzene | 44.4 | 25 | ng | 50.0 | | 88.8 | 80-120 | | | |
| 1,3-Dichlorobenzene | 51.6 | 10 | ng | 50.0 | | 103 | 80-120 | | | |
| 1,4-Dichlorobenzene | 50.5 | 10 | ng | 50.0 | | 101 | 80-120 | | | |
| 1,2-Dichlorobenzene | 51.1 | 10 | ng | 50.0 | | 102 | 80-120 | | | |
| 1,2,4-Trichlorobenzene | 53.3 | 10 | ng | 50.0 | | 107 | 80-120 | | | |
| Naphthalene | 43.4 | 25 | ng | 50.0 | | 86.9 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 53.6 | 10 | ng | 50.0 | | 107 | 80-120 | | | |
| 2-Methylnaphthalene | 40.5 | 25 | ng | 50.0 | | 81.0 | 80-120 | | | |
| *Surrogate: 1,2-DCA-d4* | *51.1* | | *ng* | 50.0 | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *50.7* | | *ng* | 50.0 | | *101* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *57.7* | | *ng* | 50.0 | | *115* | *70-130* | | | |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary*

**Sequence: B24F031 - Batch: 24F0028 - Instrument: C System - File ID: C24061003.D**

***24F0028-BLK1 (Lab Blank)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | <0.572 | 0.572 | µg/m³ | | | | | | | U |
| 1,1-Dichloroethene | <1.40 | 1.40 | µg/m³ | | | | | | | U |
| Methylene Chloride | <1.32 | 1.32 | µg/m³ | | | | | | | U |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | <0.520 | 0.520 | µg/m³ | | | | | | | U |
| trans-1,2-Dichloroethene | <1.05 | 1.05 | µg/m³ | | | | | | | U |
| Methyl-t-butyl ether | <2.31 | 2.31 | µg/m³ | | | | | | | U |
| 1,1-Dichloroethane | <0.545 | 0.545 | µg/m³ | | | | | | | U |
| cis-1,2-Dichloroethene | <0.873 | 0.873 | µg/m³ | | | | | | | U |
| Chloroform | <1.32 | 1.32 | µg/m³ | | | | | | | U |
| 1,2-Dichloroethane | <0.827 | 0.827 | µg/m³ | | | | | | | U |
| 1,1,1-Trichloroethane | <0.441 | 0.441 | µg/m³ | | | | | | | U |
| Carbon Tetrachloride | <1.08 | 1.08 | µg/m³ | | | | | | | U |
| Benzene | <2.18 | 2.18 | µg/m³ | | | | | | | U |
| Trichloroethene | <1.40 | 1.40 | µg/m³ | | | | | | | U |
| 1,4-Dioxane | <1.13 | 1.13 | µg/m³ | | | | | | | U |
| 1,1,2-Trichloroethane | <1.40 | 1.40 | µg/m³ | | | | | | | U |
| Toluene | <2.89 | 2.89 | µg/m³ | | | | | | | U |
| 1,2-Dibromoethane (EDB) | <0.594 | 0.594 | µg/m³ | | | | | | | U |
| Tetrachloroethene | <1.13 | 1.13 | µg/m³ | | | | | | | U |
| 1,1,1,2-Tetrachloroethane | <1.13 | 1.13 | µg/m³ | | | | | | | U |
| Chlorobenzene | <0.545 | 0.545 | µg/m³ | | | | | | | U |
| Ethylbenzene | <1.36 | 1.36 | µg/m³ | | | | | | | U |
| p & m-Xylene | <1.32 | 1.32 | µg/m³ | | | | | | | U |
| o-Xylene | <1.32 | 1.32 | µg/m³ | | | | | | | U |
| 1,2,3-Trichloropropane | <0.617 | 0.617 | µg/m³ | | | | | | | U |
| Isopropylbenzene | <1.39 | 1.39 | µg/m³ | | | | | | | U |
| 1,3,5-Trimethylbenzene | <1.39 | 1.39 | µg/m³ | | | | | | | U |
| 1,2,4-Trimethylbenzene | <1.39 | 1.39 | µg/m³ | | | | | | | U |
| 1,3-Dichlorobenzene | <0.617 | 0.617 | µg/m³ | | | | | | | U |
| 1,4-Dichlorobenzene | <0.617 | 0.617 | µg/m³ | | | | | | | U |
| 1,2-Dichlorobenzene | <0.617 | 0.617 | µg/m³ | | | | | | | U |
| 1,2,4-Trichlorobenzene | <1.19 | 1.19 | µg/m³ | | | | | | | U |
| Naphthalene | <1.45 | 1.45 | µg/m³ | | | | | | | U |
| 1,2,3-Trichlorobenzene | <1.19 | 1.19 | µg/m³ | | | | | | | U |
| 2-Methylnaphthalene | <1.52 | 1.52 | µg/m³ | | | | | | | U |
| *Surrogate: 1,2-DCA-d4* | *102* | | *ng* | 100 | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *103* | | *ng* | 100 | | *103* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *107* | | *ng* | 100 | | *107* | *70-130* | | | |

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| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary*

**Sequence: B24F031 - Batch: 24F0028 - Instrument: C System - File ID: C24061003.D**

***24F0028-BLK1 (Lab Blank)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | <5 | 10 | ng | | | | | | | U |
| 1,1-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Methylene Chloride | <5 | 10 | ng | | | | | | | U |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | <5 | 10 | ng | | | | | | | U |
| trans-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Methyl-t-butyl ether | <10 | 25 | ng | | | | | | | U |
| 1,1-Dichloroethane | <5 | 10 | ng | | | | | | | U |
| cis-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Chloroform | <5 | 10 | ng | | | | | | | U |
| 1,2-Dichloroethane | <5 | 10 | ng | | | | | | | U |
| 1,1,1-Trichloroethane | <5 | 10 | ng | | | | | | | U |
| Carbon Tetrachloride | <5 | 10 | ng | | | | | | | U |
| Benzene | <10 | 25 | ng | | | | | | | U |
| Trichloroethene | <5 | 10 | ng | | | | | | | U |
| 1,4-Dioxane | <5 | 10 | ng | | | | | | | U |
| 1,1,2-Trichloroethane | <5 | 10 | ng | | | | | | | U |
| Toluene | <10 | 25 | ng | | | | | | | U |
| 1,2-Dibromoethane (EDB) | <3 | 5 | ng | | | | | | | U |
| Tetrachloroethene | <5 | 10 | ng | | | | | | | U |
| 1,1,1,2-Tetrachloroethane | <5 | 10 | ng | | | | | | | U |
| Chlorobenzene | <5 | 10 | ng | | | | | | | U |
| Ethylbenzene | <10 | 25 | ng | | | | | | | U |
| p & m-Xylene | <10 | 25 | ng | | | | | | | U |
| o-Xylene | <10 | 25 | ng | | | | | | | U |
| 1,2,3-Trichloropropane | <5 | 10 | ng | | | | | | | U |
| Isopropylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,3,5-Trimethylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,2,4-Trimethylbenzene | <10 | 25 | ng | | | | | | | U |
| 1,3-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,4-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,2-Dichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 1,2,4-Trichlorobenzene | <5 | 10 | ng | | | | | | | U |
| Naphthalene | <10 | 25 | ng | | | | | | | U |
| 1,2,3-Trichlorobenzene | <5 | 10 | ng | | | | | | | U |
| 2-Methylnaphthalene | <10 | 25 | ng | | | | | | | U |
| *Surrogate: 1,2-DCA-d4* | *102* | | *ng* | 100 | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *103* | | *ng* | 100 | | *103* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *107* | | *ng* | 100 | | *107* | *70-130* | | | |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary*

**Sequence: B24F031 - Instrument: C System - File ID: C24061004.D**

***B24F031-ICV1 (LCSD/Second Source Verification/CALV)***

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 46.8 | 10 | ng | 50.0 | | 93.6 | 70-130 | | | |
| 1,1-Dichloroethene | 46.9 | 10 | ng | 50.0 | | 93.7 | 70-130 | | | |
| Methylene Chloride | 55.2 | 10 | ng | 50.0 | | 110 | 70-130 | | | |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 55.4 | 10 | ng | 50.0 | | 111 | 70-130 | | | |
| trans-1,2-Dichloroethene | 52.7 | 10 | ng | 50.0 | | 105 | 70-130 | | | |
| Methyl-t-butyl ether | 43.2 | 25 | ng | 50.0 | | 86.3 | 70-130 | | | |
| 1,1-Dichloroethane | 48.5 | 10 | ng | 50.0 | | 97.0 | 70-130 | | | |
| cis-1,2-Dichloroethene | 51.9 | 10 | ng | 50.0 | | 104 | 70-130 | | | |
| Chloroform | 53.5 | 10 | ng | 50.0 | | 107 | 70-130 | | | |
| 1,2-Dichloroethane | 49.9 | 10 | ng | 50.0 | | 99.8 | 70-130 | | | |
| 1,1,1-Trichloroethane | 49.2 | 10 | ng | 50.0 | | 98.4 | 70-130 | | | |
| Carbon Tetrachloride | 54.5 | 10 | ng | 50.0 | | 109 | 70-130 | | | |
| Benzene | 53.3 | 25 | ng | 50.0 | | 107 | 70-130 | | | |
| Trichloroethene | 54.3 | 10 | ng | 50.0 | | 109 | 70-130 | | | |
| 1,4-Dioxane | 46.9 | 10 | ng | 50.0 | | 93.9 | 70-130 | | | |
| 1,1,2-Trichloroethane | 50.8 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| Toluene | 53.9 | 25 | ng | 50.0 | | 108 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 50.5 | 5 | ng | 50.0 | | 101 | 70-130 | | | |
| Tetrachloroethene | 52.8 | 10 | ng | 50.0 | | 106 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 51.1 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| Chlorobenzene | 50.2 | 10 | ng | 50.0 | | 100 | 70-130 | | | |
| Ethylbenzene | 50.4 | 25 | ng | 50.0 | | 101 | 70-130 | | | |
| p & m-Xylene | 48.6 | 25 | ng | 50.0 | | 97.2 | 70-130 | | | |
| o-Xylene | 49.0 | 25 | ng | 50.0 | | 98.0 | 70-130 | | | |
| 1,2,3-Trichloropropane | 47.5 | 10 | ng | 50.0 | | 95.0 | 70-130 | | | |
| Isopropylbenzene | 46.6 | 25 | ng | 50.0 | | 93.2 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 44.9 | 25 | ng | 50.0 | | 89.8 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 44.3 | 25 | ng | 50.0 | | 88.6 | 70-130 | | | |
| 1,3-Dichlorobenzene | 52.5 | 10 | ng | 50.0 | | 105 | 70-130 | | | |
| 1,4-Dichlorobenzene | 51.6 | 10 | ng | 50.0 | | 103 | 70-130 | | | |
| 1,2-Dichlorobenzene | 51.1 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 53.2 | 10 | ng | 50.0 | | 106 | 70-130 | | | |
| Naphthalene | 42.9 | 25 | ng | 50.0 | | 85.9 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 54.2 | 10 | ng | 50.0 | | 108 | 70-130 | | | |
| 2-Methylnaphthalene | 40.1 | 25 | ng | 50.0 | | 80.3 | 70-130 | | | |
| *Surrogate: 1,2-DCA-d4* | *51.9* | | *ng* | 50.0 | | *104* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *50.6* | | *ng* | 50.0 | | *101* | *70-130* | | | |
| *Surrogate: Bromofluorobenzene* | *56.4* | | *ng* | 50.0 | | *113* | *70-130* | | | |

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# CERTIFICATE OF ANALYSIS

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Sample Duplicate RPD Summary*

### *Soil-Gas Sample Analysis by EPA Method 8260C*

***Duplicate Sample: DUP-01 Sample: PSG-10A Average RPD: 1.10%***

| Analyte | CAS# | Duplicate Result (ng) | LOQ (ng) | Sample Result (ng) | LOQ (ng) | RPD (%) |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | 10 | <10 | 10 | 0.0 |
| 1,1-Dichloroethene | 75-35-4 | <10 | 10 | <10 | 10 | 0.0 |
| Methylene Chloride | 75-09-2 | <10 | 10 | <10 | 10 | 0.0 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | 10 | <10 | 10 | 0.0 |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | 10 | <10 | 10 | 0.0 |
| Methyl-t-butyl ether | 1634-04-4 | <25 | 25 | <25 | 25 | 0.0 |
| 1,1-Dichloroethane | 75-34-3 | <10 | 10 | <10 | 10 | 0.0 |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | 10 | <10 | 10 | 0.0 |
| Chloroform | 67-66-3 | <10 | 10 | <10 | 10 | 0.0 |
| 1,2-Dichloroethane | 107-06-2 | <10 | 10 | <10 | 10 | 0.0 |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | 10 | <10 | 10 | 0.0 |
| Carbon Tetrachloride | 56-23-5 | <10 | 10 | <10 | 10 | 0.0 |
| Benzene | 71-43-2 | 39.0 | 25 | 32.0 | 25 | 19.7 |
| Trichloroethene | 79-01-6 | 17.0 | 10 | 16.0 | 10 | 6.1 |
| 1,4-Dioxane | 123-91-1 | <10 | 10 | <10 | 10 | 0.0 |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | 10 | <10 | 10 | 0.0 |
| Toluene | 108-88-3 | <25 | 25 | <25 | 25 | 0.0 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | 5 | <5 | 5 | 0.0 |
| Tetrachloroethene | 127-18-4 | 145 | 10 | 169 | 10 | 15.3 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | 10 | <10 | 10 | 0.0 |
| Chlorobenzene | 108-90-7 | <10 | 10 | <10 | 10 | 0.0 |
| Ethylbenzene | 100-41-4 | <25 | 25 | <25 | 25 | 0.0 |
| p & m-Xylene | 179601-23-1 | <25 | 25 | <25 | 25 | 0.0 |
| o-Xylene | 95-47-6 | <25 | 25 | <25 | 25 | 0.0 |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | 10 | <10 | 10 | 0.0 |
| Isopropylbenzene | 98-82-8 | <25 | 25 | <25 | 25 | 0.0 |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 | 25 | <25 | 25 | 0.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | <25 | 25 | <25 | 25 | 0.0 |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | 10 | <10 | 10 | 0.0 |
| 1,4-Dichlorobenzene | 106-46-7 | <10 | 10 | <10 | 10 | 0.0 |
| 1,2-Dichlorobenzene | 95-50-1 | <10 | 10 | <10 | 10 | 0.0 |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | 10 | <10 | 10 | 0.0 |
| Naphthalene | 91-20-3 | <25 | 25 | <25 | 25 | 0.0 |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | 10 | <10 | 10 | 0.0 |
| 2-Methylnaphthalene | 91-57-6 | <25 | 25 | <25 | 25 | 0.0 |
| TPH C4-C9 | | <5,000 | 5000 | <5,000 | 5000 | 0.0 |
| TPH C10-C15 | | <5,000 | 5000 | <5,000 | 5000 | 0.0 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Sample Duplicate RPD Summary*

### *Soil-Gas Sample Analysis by EPA Method 8260C*

***Duplicate Sample: DUP-02 Sample: PSG-62A Average RPD: 21.10%***

| Analyte | CAS# | Duplicate Result (ng) | LOQ (ng) | Sample Result (ng) | LOQ (ng) | RPD (%) |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <10 | 10 | <10 | 10 | 0.0 |
| 1,1-Dichloroethene | 75-35-4 | <10 | 10 | <10 | 10 | 0.0 |
| Methylene Chloride | 75-09-2 | <10 | 10 | <10 | 10 | 0.0 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <10 | 10 | <10 | 10 | 0.0 |
| trans-1,2-Dichloroethene | 156-60-5 | <10 | 10 | <10 | 10 | 0.0 |
| Methyl-t-butyl ether | 1634-04-4 | <25 | 25 | <25 | 25 | 0.0 |
| 1,1-Dichloroethane | 75-34-3 | <10 | 10 | <10 | 10 | 0.0 |
| cis-1,2-Dichloroethene | 156-59-2 | <10 | 10 | 18.0 | 10 | 57.1 |
| Chloroform | 67-66-3 | <10 | 10 | <10 | 10 | 0.0 |
| 1,2-Dichloroethane | 107-06-2 | <10 | 10 | <10 | 10 | 0.0 |
| 1,1,1-Trichloroethane | 71-55-6 | <10 | 10 | <10 | 10 | 0.0 |
| Carbon Tetrachloride | 56-23-5 | <10 | 10 | <10 | 10 | 0.0 |
| Benzene | 71-43-2 | 59.0 | 25 | 206 | 25 | 110.9 |
| Trichloroethene | 79-01-6 | 377 | 10 | 644 | 10 | 52.3 |
| 1,4-Dioxane | 123-91-1 | <10 | 10 | <10 | 10 | 0.0 |
| 1,1,2-Trichloroethane | 79-00-5 | <10 | 10 | <10 | 10 | 0.0 |
| Toluene | 108-88-3 | 39.0 | 25 | 142 | 25 | 113.8 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <5 | 5 | <5 | 5 | 0.0 |
| Tetrachloroethene | 127-18-4 | 189 | 10 | 474 | 10 | 86.0 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <10 | 10 | <10 | 10 | 0.0 |
| Chlorobenzene | 108-90-7 | <10 | 10 | <10 | 10 | 0.0 |
| Ethylbenzene | 100-41-4 | <25 | 25 | 36.0 | 25 | 36.1 |
| p & m-Xylene | 179601-23-1 | 42.0 | 25 | 96.0 | 25 | 78.3 |
| o-Xylene | 95-47-6 | 29.0 | 25 | 78.0 | 25 | 91.6 |
| 1,2,3-Trichloropropane | 96-18-4 | <10 | 10 | <10 | 10 | 0.0 |
| Isopropylbenzene | 98-82-8 | <25 | 25 | <25 | 25 | 0.0 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 74.0 | 25 | 92.0 | 25 | 21.7 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 144 | 25 | 167 | 25 | 14.8 |
| 1,3-Dichlorobenzene | 541-73-1 | <10 | 10 | <10 | 10 | 0.0 |
| 1,4-Dichlorobenzene | 106-46-7 | 26.0 | 10 | 28.0 | 10 | 7.4 |
| 1,2-Dichlorobenzene | 95-50-1 | 53.0 | 10 | 62.0 | 10 | 15.7 |
| 1,2,4-Trichlorobenzene | 120-82-1 | <10 | 10 | <10 | 10 | 0.0 |
| Naphthalene | 91-20-3 | 20,500 | 8550 | 17,800 | 8550 | 14.1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | <10 | 10 | <10 | 10 | 0.0 |
| 2-Methylnaphthalene | 91-57-6 | 15,500 | 476 | 13,400 | 476 | 14.5 |
| TPH C4-C9 | | <5,000 | 5000 | 9,540 | 5000 | 62.4 |
| TPH C10-C15 | | 24,300 | 5000 | 23,600 | 5000 | 2.9 |

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| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Sample Duplicate RPD Summary - Concentration*

### *Soil-Gas Analysis by EPA 8260 - Data in Concentration*

***Duplicate Sample: DUP-01 Sample: PSG-10A Average RPD: 1.20%***

| Analyte | CAS# | Duplicate Result (µg/m³) | LOQ (µg/m³) | Sample Result (µg/m³) | LOQ (µg/m³) | RPD (%) |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.57 | 0.57 | <0.57 | 0.57 | 0.0 |
| 1,1-Dichloroethene | 75-35-4 | <1.41 | 1.41 | <1.41 | 1.41 | 0.0 |
| Methylene Chloride | 75-09-2 | <1.33 | 1.33 | <1.33 | 1.33 | 0.0 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.52 | 0.52 | <0.52 | 0.52 | 0.0 |
| trans-1,2-Dichloroethene | 156-60-5 | <1.06 | 1.06 | <1.06 | 1.06 | 0.0 |
| Methyl-t-butyl ether | 1634-04-4 | <2.33 | 2.33 | <2.33 | 2.33 | 0.0 |
| 1,1-Dichloroethane | 75-34-3 | <0.55 | 0.55 | <0.55 | 0.55 | 0.0 |
| cis-1,2-Dichloroethene | 156-59-2 | <0.88 | 0.88 | <0.88 | 0.88 | 0.0 |
| Chloroform | 67-66-3 | <1.33 | 1.33 | <1.33 | 1.33 | 0.0 |
| 1,2-Dichloroethane | 107-06-2 | <0.83 | 0.83 | <0.83 | 0.83 | 0.0 |
| 1,1,1-Trichloroethane | 71-55-6 | <0.44 | 0.44 | <0.44 | 0.44 | 0.0 |
| Carbon Tetrachloride | 56-23-5 | <1.08 | 1.08 | <1.08 | 1.08 | 0.0 |
| Benzene | 71-43-2 | 3.46 | 2.19 | 2.79 | 2.19 | 21.4 |
| Trichloroethene | 79-01-6 | 2.40 | 1.41 | 2.22 | 1.41 | 7.8 |
| 1,4-Dioxane | 123-91-1 | <1.13 | 1.13 | <1.13 | 1.13 | 0.0 |
| 1,1,2-Trichloroethane | 79-00-5 | <1.41 | 1.41 | <1.41 | 1.41 | 0.0 |
| Toluene | 108-88-3 | <2.91 | 2.91 | <2.91 | 2.91 | 0.0 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | 0.60 | <0.60 | 0.60 | 0.0 |
| Tetrachloroethene | 127-18-4 | 16.5 | 1.13 | 19.1 | 1.13 | 14.6 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.13 | 1.13 | <1.13 | 1.13 | 0.0 |
| Chlorobenzene | 108-90-7 | <0.55 | 0.55 | <0.55 | 0.55 | 0.0 |
| Ethylbenzene | 100-41-4 | <1.37 | 1.37 | <1.37 | 1.37 | 0.0 |
| p & m-Xylene | 179601-23-1 | <1.32 | 1.32 | <1.32 | 1.32 | 0.0 |
| o-Xylene | 95-47-6 | <1.32 | 1.32 | <1.32 | 1.32 | 0.0 |
| 1,2,3-Trichloropropane | 96-18-4 | <0.62 | 0.62 | <0.62 | 0.62 | 0.0 |
| Isopropylbenzene | 98-82-8 | <1.40 | 1.40 | <1.40 | 1.40 | 0.0 |
| 1,3,5-Trimethylbenzene | 108-67-8 | <1.40 | 1.40 | <1.40 | 1.40 | 0.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | <1.40 | 1.40 | <1.40 | 1.40 | 0.0 |
| 1,3-Dichlorobenzene | 541-73-1 | <0.62 | 0.62 | <0.62 | 0.62 | 0.0 |
| 1,4-Dichlorobenzene | 106-46-7 | <0.62 | 0.62 | <0.62 | 0.62 | 0.0 |
| 1,2-Dichlorobenzene | 95-50-1 | <0.62 | 0.62 | <0.62 | 0.62 | 0.0 |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.19 | 1.19 | <1.19 | 1.19 | 0.0 |
| Naphthalene | 91-20-3 | <1.45 | 1.45 | <1.45 | 1.45 | 0.0 |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.19 | 1.19 | <1.19 | 1.19 | 0.0 |
| 2-Methylnaphthalene | 91-57-6 | <1.53 | 1.53 | <1.53 | 1.53 | 0.0 |
| TPH C4-C9 | | <394 | 394 | <394 | 394 | 0.0 |
| TPH C10-C15 | | <337 | 337 | <337 | 337 | 0.0 |

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| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Sample Duplicate RPD Summary - Concentration*

### *Soil-Gas Analysis by EPA 8260 - Data in Concentration*

***Duplicate Sample: DUP-02 Sample: PSG-62A Average RPD: 21.10%***

| Analyte | CAS# | Duplicate Result (µg/m³) | LOQ (µg/m³) | Sample Result (µg/m³) | LOQ (µg/m³) | RPD (%) |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | <0.58 | 0.58 | <0.58 | 0.58 | 0.0 |
| 1,1-Dichloroethene | 75-35-4 | <1.43 | 1.43 | <1.43 | 1.43 | 0.0 |
| Methylene Chloride | 75-09-2 | <1.35 | 1.35 | <1.35 | 1.35 | 0.0 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 76-13-1 | <0.53 | 0.53 | <0.53 | 0.53 | 0.0 |
| trans-1,2-Dichloroethene | 156-60-5 | <1.07 | 1.07 | <1.07 | 1.07 | 0.0 |
| Methyl-t-butyl ether | 1634-04-4 | <2.36 | 2.36 | <2.36 | 2.36 | 0.0 |
| 1,1-Dichloroethane | 75-34-3 | <0.56 | 0.56 | <0.56 | 0.56 | 0.0 |
| cis-1,2-Dichloroethene | 156-59-2 | <0.89 | 0.89 | 1.60 | 0.89 | 57.0 |
| Chloroform | 67-66-3 | <1.35 | 1.35 | <1.35 | 1.35 | 0.0 |
| 1,2-Dichloroethane | 107-06-2 | <0.84 | 0.84 | <0.84 | 0.84 | 0.0 |
| 1,1,1-Trichloroethane | 71-55-6 | <0.45 | 0.45 | <0.45 | 0.45 | 0.0 |
| Carbon Tetrachloride | 56-23-5 | <1.10 | 1.10 | <1.10 | 1.10 | 0.0 |
| Benzene | 71-43-2 | 5.29 | 2.23 | 18.4 | 2.23 | 110.7 |
| Trichloroethene | 79-01-6 | 53.9 | 1.43 | 92.1 | 1.43 | 52.3 |
| 1,4-Dioxane | 123-91-1 | <1.15 | 1.15 | <1.15 | 1.15 | 0.0 |
| 1,1,2-Trichloroethane | 79-00-5 | <1.43 | 1.43 | <1.43 | 1.43 | 0.0 |
| Toluene | 108-88-3 | 4.56 | 2.95 | 16.8 | 2.95 | 114.6 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | <0.60 | 0.60 | <0.60 | 0.60 | 0.0 |
| Tetrachloroethene | 127-18-4 | 21.8 | 1.15 | 54.6 | 1.15 | 85.9 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <1.15 | 1.15 | <1.15 | 1.15 | 0.0 |
| Chlorobenzene | 108-90-7 | <0.56 | 0.56 | <0.56 | 0.56 | 0.0 |
| Ethylbenzene | 100-41-4 | <1.39 | 1.39 | 1.98 | 1.39 | 35.0 |
| p & m-Xylene | 179601-23-1 | 2.23 | 1.34 | 5.12 | 1.34 | 78.6 |
| o-Xylene | 95-47-6 | 1.57 | 1.34 | 4.18 | 1.34 | 90.8 |
| 1,2,3-Trichloropropane | 96-18-4 | <0.63 | 0.63 | <0.63 | 0.63 | 0.0 |
| Isopropylbenzene | 98-82-8 | <1.42 | 1.42 | <1.42 | 1.42 | 0.0 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 4.20 | 1.42 | 5.25 | 1.42 | 22.2 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 8.21 | 1.42 | 9.50 | 1.42 | 14.6 |
| 1,3-Dichlorobenzene | 541-73-1 | <0.63 | 0.63 | <0.63 | 0.63 | 0.0 |
| 1,4-Dichlorobenzene | 106-46-7 | 1.64 | 0.63 | 1.79 | 0.63 | 8.7 |
| 1,2-Dichlorobenzene | 95-50-1 | 3.34 | 0.63 | 3.93 | 0.63 | 16.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | <1.21 | 1.21 | <1.21 | 1.21 | 0.0 |
| Naphthalene | 91-20-3 | 1,210 | 505 | 1,050 | 505 | 14.2 |
| 1,2,3-Trichlorobenzene | 87-61-6 | <1.21 | 1.21 | <1.21 | 1.21 | 0.0 |
| 2-Methylnaphthalene | 91-57-6 | 964 | 29.6 | 832 | 29.6 | 14.7 |
| TPH C4-C9 | | <400 | 400 | 763 | 400 | 62.4 |
| TPH C10-C15 | | 1,660 | 342 | 1,610 | 342 | 3.1 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# *Additional QC Information*

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

**Lab ID:** 0007787-01 **Sample Name:** Trip-1

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 21,603 | 1.00 | 0.810 | U | U | C24060719.D |
| 1,1-Dichloroethene | 21,603 | 1.00 | 0.330 | U | U | C24060719.D |
| Methylene Chloride | 21,603 | 1.00 | 0.350 g | U | U | C24060719.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,603 | 1.00 | 0.890 g | U | U | C24060719.D |
| trans-1,2-Dichloroethene | 21,603 | 1.00 | 0.440 | U | U | C24060719.D |
| Methyl-t-butyl ether | 21,603 | 1.00 | 0.500 g | U | U | C24060719.D |
| 1,1-Dichloroethane | 21,603 | 1.00 | 0.850 | U | U | C24060719.D |
| cis-1,2-Dichloroethene | 21,603 | 1.00 | 0.530 | U | U | C24060719.D |
| Chloroform | 21,603 | 1.00 | 0.350 g | U | U | C24060719.D |
| 1,2-Dichloroethane | 21,603 | 1.00 | 0.560 | U | U | C24060719.D |
| 1,1,1-Trichloroethane | 21,603 | 1.00 | 1.050 | U | U | C24060719.D |
| Carbon Tetrachloride | 21,603 | 1.00 | 0.430 g | U | U | C24060719.D |
| Benzene | 21,603 | 1.00 | 0.530 | U | U | C24060719.D |
| Trichloroethene | 21,603 | 1.00 | 0.330 | U | U | C24060719.D |
| 1,4-Dioxane | 21,603 | 1.00 | 0.410 g | U | U | C24060719.D |
| 1,1,2-Trichloroethane | 21,603 | 1.00 | 0.330 g | U | U | C24060719.D |
| Toluene | 21,603 | 1.00 | 0.400 | U | U | C24060719.D |
| 1,2-Dibromoethane (EDB) | 21,603 | 1.00 | 0.390 g | U | U | C24060719.D |
| Tetrachloroethene | 21,603 | 1.00 | 0.410 | U | U | C24060719.D |
| 1,1,1,2-Tetrachloroethane | 21,603 | 1.00 | 0.410 g | U | U | C24060719.D |
| Chlorobenzene | 21,603 | 1.00 | 0.850 g | U | U | C24060719.D |
| Ethylbenzene | 21,603 | 1.00 | 0.850 | U | U | C24060719.D |
| p & m-Xylene | 21,603 | 1.00 | 0.880 | U | U | C24060719.D |
| o-Xylene | 21,603 | 1.00 | 0.880 | U | U | C24060719.D |
| 1,2,3-Trichloropropane | 21,603 | 1.00 | 0.750 g | U | U | C24060719.D |
| Isopropylbenzene | 21,603 | 1.00 | 0.830 g | U | U | C24060719.D |
| 1,3,5-Trimethylbenzene | 21,603 | 1.00 | 0.830 g | U | U | C24060719.D |
| 1,2,4-Trimethylbenzene | 21,603 | 1.00 | 0.830 g | U | U | C24060719.D |
| 1,3-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | U | U | C24060719.D |
| 1,4-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | U | U | C24060719.D |
| 1,2-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | U | U | C24060719.D |
| 1,2,4-Trichlorobenzene | 21,603 | 1.00 | 0.390 g | U | U | C24060719.D |
| Naphthalene | 21,603 | 1.00 | 0.800 g | U | U | C24060719.D |
| 1,2,3-Trichlorobenzene | 21,603 | 1.00 | 0.390 g | U | U | C24060719.D |
| 2-Methylnaphthalene | 21,603 | 1.00 | 0.760 g | U | U | C24060719.D |
| TPH C4-C9 | 21,603 | 1.00 | 0.590 g | U | U | C24060719.D |
| TPH C10-C15 | 21,603 | 1.00 | 0.690 g | U | U | C24060719.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-02 **Sample Name:** PSG-10A | | | | | | |
| Vinyl Chloride | 21,504 | 1.00 | 0.810 | U | U | C24060720.D |
| 1,1-Dichloroethene | 21,504 | 1.00 | 0.330 | U | U | C24060720.D |
| Methylene Chloride | 21,504 | 1.00 | 0.350 g | U | U | C24060720.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,504 | 1.00 | 0.890 g | U | U | C24060720.D |
| trans-1,2-Dichloroethene | 21,504 | 1.00 | 0.440 | U | U | C24060720.D |
| Methyl-t-butyl ether | 21,504 | 1.00 | 0.500 g | U | U | C24060720.D |
| 1,1-Dichloroethane | 21,504 | 1.00 | 0.850 | U | U | C24060720.D |
| cis-1,2-Dichloroethene | 21,504 | 1.00 | 0.530 | U | U | C24060720.D |
| Chloroform | 21,504 | 1.00 | 0.350 g | U | U | C24060720.D |
| 1,2-Dichloroethane | 21,504 | 1.00 | 0.560 | U | U | C24060720.D |
| 1,1,1-Trichloroethane | 21,504 | 1.00 | 1.050 | U | U | C24060720.D |
| Carbon Tetrachloride | 21,504 | 1.00 | 0.430 g | U | U | C24060720.D |
| Benzene | 21,504 | 1.00 | 0.530 | 31.82 | 2.79 | C24060720.D |
| Trichloroethene | 21,504 | 1.00 | 0.330 | 15.78 | 2.22 | C24060720.D |
| 1,4-Dioxane | 21,504 | 1.00 | 0.410 g | U | U | C24060720.D |
| 1,1,2-Trichloroethane | 21,504 | 1.00 | 0.330 g | U | U | C24060720.D |
| Toluene | 21,504 | 1.00 | 0.400 | U | U | C24060720.D |
| 1,2-Dibromoethane (EDB) | 21,504 | 1.00 | 0.390 g | U | U | C24060720.D |
| Tetrachloroethene | 21,504 | 1.00 | 0.410 | 168.67 | 19.1 | C24060720.D |
| 1,1,1,2-Tetrachloroethane | 21,504 | 1.00 | 0.410 g | U | U | C24060720.D |
| Chlorobenzene | 21,504 | 1.00 | 0.850 g | U | U | C24060720.D |
| Ethylbenzene | 21,504 | 1.00 | 0.850 | U | U | C24060720.D |
| p & m-Xylene | 21,504 | 1.00 | 0.880 | U | U | C24060720.D |
| o-Xylene | 21,504 | 1.00 | 0.880 | U | U | C24060720.D |
| 1,2,3-Trichloropropane | 21,504 | 1.00 | 0.750 g | U | U | C24060720.D |
| Isopropylbenzene | 21,504 | 1.00 | 0.830 g | U | U | C24060720.D |
| 1,3,5-Trimethylbenzene | 21,504 | 1.00 | 0.830 g | U | U | C24060720.D |
| 1,2,4-Trimethylbenzene | 21,504 | 1.00 | 0.830 g | U | U | C24060720.D |
| 1,3-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | U | U | C24060720.D |
| 1,4-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | U | U | C24060720.D |
| 1,2-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | U | U | C24060720.D |
| 1,2,4-Trichlorobenzene | 21,504 | 1.00 | 0.390 g | U | U | C24060720.D |
| Naphthalene | 21,504 | 1.00 | 0.800 g | U | U | C24060720.D |
| 1,2,3-Trichlorobenzene | 21,504 | 1.00 | 0.390 g | U | U | C24060720.D |
| 2-Methylnaphthalene | 21,504 | 1.00 | 0.760 g | U | U | C24060720.D |
| TPH C4-C9 | 21,504 | 1.00 | 0.590 g | U | U | C24060720.D |
| TPH C10-C15 | 21,504 | 1.00 | 0.690 g | U | U | C24060720.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-03 **Sample Name:** DUP-01 | | | | | | |
| Vinyl Chloride | 21,504 | 1.00 | 0.810 | U | U | C24060721.D |
| 1,1-Dichloroethene | 21,504 | 1.00 | 0.330 | U | U | C24060721.D |
| Methylene Chloride | 21,504 | 1.00 | 0.350 g | U | U | C24060721.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,504 | 1.00 | 0.890 g | U | U | C24060721.D |
| trans-1,2-Dichloroethene | 21,504 | 1.00 | 0.440 | U | U | C24060721.D |
| Methyl-t-butyl ether | 21,504 | 1.00 | 0.500 g | U | U | C24060721.D |
| 1,1-Dichloroethane | 21,504 | 1.00 | 0.850 | U | U | C24060721.D |
| cis-1,2-Dichloroethene | 21,504 | 1.00 | 0.530 | U | U | C24060721.D |
| Chloroform | 21,504 | 1.00 | 0.350 g | U | U | C24060721.D |
| 1,2-Dichloroethane | 21,504 | 1.00 | 0.560 | U | U | C24060721.D |
| 1,1,1-Trichloroethane | 21,504 | 1.00 | 1.050 | U | U | C24060721.D |
| Carbon Tetrachloride | 21,504 | 1.00 | 0.430 g | U | U | C24060721.D |
| Benzene | 21,504 | 1.00 | 0.530 | 39.42 | 3.46 | C24060721.D |
| Trichloroethene | 21,504 | 1.00 | 0.330 | 17.05 | 2.40 | C24060721.D |
| 1,4-Dioxane | 21,504 | 1.00 | 0.410 g | U | U | C24060721.D |
| 1,1,2-Trichloroethane | 21,504 | 1.00 | 0.330 g | U | U | C24060721.D |
| Toluene | 21,504 | 1.00 | 0.400 | U | U | C24060721.D |
| 1,2-Dibromoethane (EDB) | 21,504 | 1.00 | 0.390 g | U | U | C24060721.D |
| Tetrachloroethene | 21,504 | 1.00 | 0.410 | 145.45 | 16.5 | C24060721.D |
| 1,1,1,2-Tetrachloroethane | 21,504 | 1.00 | 0.410 g | U | U | C24060721.D |
| Chlorobenzene | 21,504 | 1.00 | 0.850 g | U | U | C24060721.D |
| Ethylbenzene | 21,504 | 1.00 | 0.850 | U | U | C24060721.D |
| p & m-Xylene | 21,504 | 1.00 | 0.880 | U | U | C24060721.D |
| o-Xylene | 21,504 | 1.00 | 0.880 | U | U | C24060721.D |
| 1,2,3-Trichloropropane | 21,504 | 1.00 | 0.750 g | U | U | C24060721.D |
| Isopropylbenzene | 21,504 | 1.00 | 0.830 g | U | U | C24060721.D |
| 1,3,5-Trimethylbenzene | 21,504 | 1.00 | 0.830 g | U | U | C24060721.D |
| 1,2,4-Trimethylbenzene | 21,504 | 1.00 | 0.830 g | U | U | C24060721.D |
| 1,3-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | U | U | C24060721.D |
| 1,4-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | U | U | C24060721.D |
| 1,2-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | U | U | C24060721.D |
| 1,2,4-Trichlorobenzene | 21,504 | 1.00 | 0.390 g | U | U | C24060721.D |
| Naphthalene | 21,504 | 1.00 | 0.800 g | U | U | C24060721.D |
| 1,2,3-Trichlorobenzene | 21,504 | 1.00 | 0.390 g | U | U | C24060721.D |
| 2-Methylnaphthalene | 21,504 | 1.00 | 0.760 g | U | U | C24060721.D |
| TPH C4-C9 | 21,504 | 1.00 | 0.590 g | U | U | C24060721.D |
| TPH C10-C15 | 21,504 | 1.00 | 0.690 g | U | U | C24060721.D |

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| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-04 **Sample Name:** PSG-10B | | | | | | |
| Vinyl Chloride | 21,381 | 1.00 | 0.810 | U | U | C24060722.D |
| 1,1-Dichloroethene | 21,381 | 1.00 | 0.330 | U | U | C24060722.D |
| Methylene Chloride | 21,381 | 1.00 | 0.350 g | U | U | C24060722.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,381 | 1.00 | 0.890 g | U | U | C24060722.D |
| trans-1,2-Dichloroethene | 21,381 | 1.00 | 0.440 | U | U | C24060722.D |
| Methyl-t-butyl ether | 21,381 | 1.00 | 0.500 g | U | U | C24060722.D |
| 1,1-Dichloroethane | 21,381 | 1.00 | 0.850 | U | U | C24060722.D |
| cis-1,2-Dichloroethene | 21,381 | 1.00 | 0.530 | U | U | C24060722.D |
| Chloroform | 21,381 | 1.00 | 0.350 g | U | U | C24060722.D |
| 1,2-Dichloroethane | 21,381 | 1.00 | 0.560 | U | U | C24060722.D |
| 1,1,1-Trichloroethane | 21,381 | 1.00 | 1.050 | U | U | C24060722.D |
| Carbon Tetrachloride | 21,381 | 1.00 | 0.430 g | U | U | C24060722.D |
| Benzene | 21,381 | 1.00 | 0.530 | 27.52 | 2.43 | C24060722.D |
| Trichloroethene | 21,381 | 1.00 | 0.330 | 20.78 | 2.95 | C24060722.D |
| 1,4-Dioxane | 21,381 | 1.00 | 0.410 g | U | U | C24060722.D |
| 1,1,2-Trichloroethane | 21,381 | 1.00 | 0.330 g | U | U | C24060722.D |
| Toluene | 21,381 | 1.00 | 0.400 | U | U | C24060722.D |
| 1,2-Dibromoethane (EDB) | 21,381 | 1.00 | 0.390 g | U | U | C24060722.D |
| Tetrachloroethene | 21,381 | 1.00 | 0.410 | 128.41 | 14.6 | C24060722.D |
| 1,1,1,2-Tetrachloroethane | 21,381 | 1.00 | 0.410 g | U | U | C24060722.D |
| Chlorobenzene | 21,381 | 1.00 | 0.850 g | U | U | C24060722.D |
| Ethylbenzene | 21,381 | 1.00 | 0.850 | U | U | C24060722.D |
| p & m-Xylene | 21,381 | 1.00 | 0.880 | 85.23 | 4.53 | C24060722.D |
| o-Xylene | 21,381 | 1.00 | 0.880 | 39.11 | 2.08 | C24060722.D |
| 1,2,3-Trichloropropane | 21,381 | 1.00 | 0.750 g | U | U | C24060722.D |
| Isopropylbenzene | 21,381 | 1.00 | 0.830 g | U | U | C24060722.D |
| 1,3,5-Trimethylbenzene | 21,381 | 1.00 | 0.830 g | U | U | C24060722.D |
| 1,2,4-Trimethylbenzene | 21,381 | 1.00 | 0.830 g | U | U | C24060722.D |
| 1,3-Dichlorobenzene | 21,381 | 1.00 | 0.750 g | U | U | C24060722.D |
| 1,4-Dichlorobenzene | 21,381 | 1.00 | 0.750 g | U | U | C24060722.D |
| 1,2-Dichlorobenzene | 21,381 | 1.00 | 0.750 g | U | U | C24060722.D |
| 1,2,4-Trichlorobenzene | 21,381 | 1.00 | 0.390 g | U | U | C24060722.D |
| Naphthalene | 21,381 | 1.00 | 0.800 g | U | U | C24060722.D |
| 1,2,3-Trichlorobenzene | 21,381 | 1.00 | 0.390 g | U | U | C24060722.D |
| 2-Methylnaphthalene | 21,381 | 1.00 | 0.760 g | U | U | C24060722.D |
| TPH C4-C9 | 21,381 | 1.00 | 0.590 g | U | U | C24060722.D |
| TPH C10-C15 | 21,381 | 1.00 | 0.690 g | U | U | C24060722.D |

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| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-05 **Sample Name:** PSG-10C | | | | | | |
| Vinyl Chloride | 21,576 | 1.00 | 0.810 | U | U | C24060723.D |
| 1,1-Dichloroethene | 21,576 | 1.00 | 0.330 | U | U | C24060723.D |
| Methylene Chloride | 21,576 | 1.00 | 0.350 g | U | U | C24060723.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,576 | 1.00 | 0.890 g | U | U | C24060723.D |
| trans-1,2-Dichloroethene | 21,576 | 1.00 | 0.440 | U | U | C24060723.D |
| Methyl-t-butyl ether | 21,576 | 1.00 | 0.500 g | U | U | C24060723.D |
| 1,1-Dichloroethane | 21,576 | 1.00 | 0.850 | U | U | C24060723.D |
| cis-1,2-Dichloroethene | 21,576 | 1.00 | 0.530 | U | U | C24060723.D |
| Chloroform | 21,576 | 1.00 | 0.350 g | U | U | C24060723.D |
| 1,2-Dichloroethane | 21,576 | 1.00 | 0.560 | U | U | C24060723.D |
| 1,1,1-Trichloroethane | 21,576 | 1.00 | 1.050 | U | U | C24060723.D |
| Carbon Tetrachloride | 21,576 | 1.00 | 0.430 g | U | U | C24060723.D |
| Benzene | 21,576 | 1.00 | 0.530 | U | U | C24060723.D |
| Trichloroethene | 21,576 | 1.00 | 0.330 | 53.94 | 7.58 | C24060723.D |
| 1,4-Dioxane | 21,576 | 1.00 | 0.410 g | U | U | C24060723.D |
| 1,1,2-Trichloroethane | 21,576 | 1.00 | 0.330 g | U | U | C24060723.D |
| Toluene | 21,576 | 1.00 | 0.400 | U | U | C24060723.D |
| 1,2-Dibromoethane (EDB) | 21,576 | 1.00 | 0.390 g | U | U | C24060723.D |
| Tetrachloroethene | 21,576 | 1.00 | 0.410 | 914.61 | 103 | C24060723.D |
| 1,1,1,2-Tetrachloroethane | 21,576 | 1.00 | 0.410 g | U | U | C24060723.D |
| Chlorobenzene | 21,576 | 1.00 | 0.850 g | U | U | C24060723.D |
| Ethylbenzene | 21,576 | 1.00 | 0.850 | U | U | C24060723.D |
| p & m-Xylene | 21,576 | 1.00 | 0.880 | U | U | C24060723.D |
| o-Xylene | 21,576 | 1.00 | 0.880 | U | U | C24060723.D |
| 1,2,3-Trichloropropane | 21,576 | 1.00 | 0.750 g | U | U | C24060723.D |
| Isopropylbenzene | 21,576 | 1.00 | 0.830 g | U | U | C24060723.D |
| 1,3,5-Trimethylbenzene | 21,576 | 1.00 | 0.830 g | U | U | C24060723.D |
| 1,2,4-Trimethylbenzene | 21,576 | 1.00 | 0.830 g | U | U | C24060723.D |
| 1,3-Dichlorobenzene | 21,576 | 1.00 | 0.750 g | U | U | C24060723.D |
| 1,4-Dichlorobenzene | 21,576 | 1.00 | 0.750 g | U | U | C24060723.D |
| 1,2-Dichlorobenzene | 21,576 | 1.00 | 0.750 g | U | U | C24060723.D |
| 1,2,4-Trichlorobenzene | 21,576 | 1.00 | 0.390 g | U | U | C24060723.D |
| Naphthalene | 21,576 | 1.00 | 0.800 g | U | U | C24060723.D |
| 1,2,3-Trichlorobenzene | 21,576 | 1.00 | 0.390 g | U | U | C24060723.D |
| 2-Methylnaphthalene | 21,576 | 1.00 | 0.760 g | U | U | C24060723.D |
| TPH C4-C9 | 21,576 | 1.00 | 0.590 g | U | U | C24060723.D |
| TPH C10-C15 | 21,576 | 1.00 | 0.690 g | U | U | C24060723.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-06 **Sample Name:** PSG-10D | | | | | | |
| Vinyl Chloride | 21,386 | 1.00 | 0.810 | U | U | C24060724.D |
| 1,1-Dichloroethene | 21,386 | 1.00 | 0.330 | U | U | C24060724.D |
| Methylene Chloride | 21,386 | 1.00 | 0.350 g | U | U | C24060724.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,386 | 1.00 | 0.890 g | U | U | C24060724.D |
| trans-1,2-Dichloroethene | 21,386 | 1.00 | 0.440 | U | U | C24060724.D |
| Methyl-t-butyl ether | 21,386 | 1.00 | 0.500 g | U | U | C24060724.D |
| 1,1-Dichloroethane | 21,386 | 1.00 | 0.850 | U | U | C24060724.D |
| cis-1,2-Dichloroethene | 21,386 | 1.00 | 0.530 | U | U | C24060724.D |
| Chloroform | 21,386 | 1.00 | 0.350 g | U | U | C24060724.D |
| 1,2-Dichloroethane | 21,386 | 1.00 | 0.560 | U | U | C24060724.D |
| 1,1,1-Trichloroethane | 21,386 | 1.00 | 1.050 | U | U | C24060724.D |
| Carbon Tetrachloride | 21,386 | 1.00 | 0.430 g | U | U | C24060724.D |
| Benzene | 21,386 | 1.00 | 0.530 | U | U | C24060724.D |
| Trichloroethene | 21,386 | 1.00 | 0.330 | 48.71 | 6.90 | C24060724.D |
| 1,4-Dioxane | 21,386 | 1.00 | 0.410 g | U | U | C24060724.D |
| 1,1,2-Trichloroethane | 21,386 | 1.00 | 0.330 g | U | U | C24060724.D |
| Toluene | 21,386 | 1.00 | 0.400 | U | U | C24060724.D |
| 1,2-Dibromoethane (EDB) | 21,386 | 1.00 | 0.390 g | U | U | C24060724.D |
| Tetrachloroethene | 21,386 | 1.00 | 0.410 | 191.39 | 21.8 | C24060724.D |
| 1,1,1,2-Tetrachloroethane | 21,386 | 1.00 | 0.410 g | U | U | C24060724.D |
| Chlorobenzene | 21,386 | 1.00 | 0.850 g | U | U | C24060724.D |
| Ethylbenzene | 21,386 | 1.00 | 0.850 | U | U | C24060724.D |
| p & m-Xylene | 21,386 | 1.00 | 0.880 | 42.58 | 2.26 | C24060724.D |
| o-Xylene | 21,386 | 1.00 | 0.880 | U | U | C24060724.D |
| 1,2,3-Trichloropropane | 21,386 | 1.00 | 0.750 g | U | U | C24060724.D |
| Isopropylbenzene | 21,386 | 1.00 | 0.830 g | U | U | C24060724.D |
| 1,3,5-Trimethylbenzene | 21,386 | 1.00 | 0.830 g | U | U | C24060724.D |
| 1,2,4-Trimethylbenzene | 21,386 | 1.00 | 0.830 g | U | U | C24060724.D |
| 1,3-Dichlorobenzene | 21,386 | 1.00 | 0.750 g | U | U | C24060724.D |
| 1,4-Dichlorobenzene | 21,386 | 1.00 | 0.750 g | U | U | C24060724.D |
| 1,2-Dichlorobenzene | 21,386 | 1.00 | 0.750 g | U | U | C24060724.D |
| 1,2,4-Trichlorobenzene | 21,386 | 1.00 | 0.390 g | U | U | C24060724.D |
| Naphthalene | 21,386 | 1.00 | 0.800 g | U | U | C24060724.D |
| 1,2,3-Trichlorobenzene | 21,386 | 1.00 | 0.390 g | U | U | C24060724.D |
| 2-Methylnaphthalene | 21,386 | 1.00 | 0.760 g | U | U | C24060724.D |
| TPH C4-C9 | 21,386 | 1.00 | 0.590 g | U | U | C24060724.D |
| TPH C10-C15 | 21,386 | 1.00 | 0.690 g | U | U | C24060724.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Result Calculation Summary (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-07 **Sample Name:** PSG-25A | | | | | | |
| Vinyl Chloride | 21,270 | 1.00 | 0.810 | U | U | C24060725.D |
| 1,1-Dichloroethene | 21,270 | 1.00 | 0.330 | U | U | C24060725.D |
| Methylene Chloride | 21,270 | 1.00 | 0.350 g | U | U | C24060725.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,270 | 1.00 | 0.890 g | U | U | C24060725.D |
| trans-1,2-Dichloroethene | 21,270 | 1.00 | 0.440 | U | U | C24060725.D |
| Methyl-t-butyl ether | 21,270 | 1.00 | 0.500 g | U | U | C24060725.D |
| 1,1-Dichloroethane | 21,270 | 1.00 | 0.850 | U | U | C24060725.D |
| cis-1,2-Dichloroethene | 21,270 | 1.00 | 0.530 | U | U | C24060725.D |
| Chloroform | 21,270 | 1.00 | 0.350 g | U | U | C24060725.D |
| 1,2-Dichloroethane | 21,270 | 1.00 | 0.560 | U | U | C24060725.D |
| 1,1,1-Trichloroethane | 21,270 | 1.00 | 1.050 | U | U | C24060725.D |
| Carbon Tetrachloride | 21,270 | 1.00 | 0.430 g | U | U | C24060725.D |
| Benzene | 21,270 | 1.00 | 0.530 | 161.71 | 14.3 | C24060725.D |
| Trichloroethene | 21,270 | 1.00 | 0.330 | U | U | C24060725.D |
| 1,4-Dioxane | 21,270 | 1.00 | 0.410 g | U | U | C24060725.D |
| 1,1,2-Trichloroethane | 21,270 | 1.00 | 0.330 g | U | U | C24060725.D |
| Toluene | 21,270 | 1.00 | 0.400 | 168.65 | 19.8 | C24060725.D |
| 1,2-Dibromoethane (EDB) | 21,270 | 1.00 | 0.390 g | U | U | C24060725.D |
| Tetrachloroethene | 21,270 | 1.00 | 0.410 | U | U | C24060725.D |
| 1,1,1,2-Tetrachloroethane | 21,270 | 1.00 | 0.410 g | U | U | C24060725.D |
| Chlorobenzene | 21,270 | 1.00 | 0.850 g | U | U | C24060725.D |
| Ethylbenzene | 21,270 | 1.00 | 0.850 | 28.35 | 1.57 | C24060725.D |
| p & m-Xylene | 21,270 | 1.00 | 0.880 | 106.08 | 5.67 | C24060725.D |
| o-Xylene | 21,270 | 1.00 | 0.880 | 54.31 | 2.90 | C24060725.D |
| 1,2,3-Trichloropropane | 21,270 | 1.00 | 0.750 g | U | U | C24060725.D |
| Isopropylbenzene | 21,270 | 1.00 | 0.830 g | U | U | C24060725.D |
| 1,3,5-Trimethylbenzene | 21,270 | 1.00 | 0.830 g | U | U | C24060725.D |
| 1,2,4-Trimethylbenzene | 21,270 | 1.00 | 0.830 g | U | U | C24060725.D |
| 1,3-Dichlorobenzene | 21,270 | 1.00 | 0.750 g | U | U | C24060725.D |
| 1,4-Dichlorobenzene | 21,270 | 1.00 | 0.750 g | U | U | C24060725.D |
| 1,2-Dichlorobenzene | 21,270 | 1.00 | 0.750 g | U | U | C24060725.D |
| 1,2,4-Trichlorobenzene | 21,270 | 1.00 | 0.390 g | U | U | C24060725.D |
| Naphthalene | 21,270 | 1.00 | 0.800 g | U | U | C24060725.D |
| 1,2,3-Trichlorobenzene | 21,270 | 1.00 | 0.390 g | U | U | C24060725.D |
| 2-Methylnaphthalene | 21,270 | 1.00 | 0.760 g | U | U | C24060725.D |
| TPH C4-C9 | 21,270 | 1.00 | 0.590 g | 24389.94 | 1,940 | C24060725.D |
| TPH C10-C15 | 21,270 | 1.00 | 0.690 g | U | U | C24060725.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Result Calculation Summary (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-08 **Sample Name:** PSG-25B | | | | | | |
| Vinyl Chloride | 21,279 | 1.00 | 0.810 | U | U | C24060726.D |
| 1,1-Dichloroethene | 21,279 | 1.00 | 0.330 | U | U | C24060726.D |
| Methylene Chloride | 21,279 | 1.00 | 0.350 g | U | U | C24060726.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,279 | 1.00 | 0.890 g | U | U | C24060726.D |
| trans-1,2-Dichloroethene | 21,279 | 1.00 | 0.440 | U | U | C24060726.D |
| Methyl-t-butyl ether | 21,279 | 1.00 | 0.500 g | U | U | C24060726.D |
| 1,1-Dichloroethane | 21,279 | 1.00 | 0.850 | U | U | C24060726.D |
| cis-1,2-Dichloroethene | 21,279 | 1.00 | 0.530 | U | U | C24060726.D |
| Chloroform | 21,279 | 1.00 | 0.350 g | U | U | C24060726.D |
| 1,2-Dichloroethane | 21,279 | 1.00 | 0.560 | U | U | C24060726.D |
| 1,1,1-Trichloroethane | 21,279 | 1.00 | 1.050 | U | U | C24060726.D |
| Carbon Tetrachloride | 21,279 | 1.00 | 0.430 g | U | U | C24060726.D |
| Benzene | 21,279 | 1.00 | 0.530 | 281.42 | 25.0 | C24060726.D |
| Trichloroethene | 21,279 | 1.00 | 0.330 | U | U | C24060726.D |
| 1,4-Dioxane | 21,279 | 1.00 | 0.410 g | U | U | C24060726.D |
| 1,1,2-Trichloroethane | 21,279 | 1.00 | 0.330 g | U | U | C24060726.D |
| Toluene | 21,279 | 1.00 | 0.400 | 303.89 | 35.7 | C24060726.D |
| 1,2-Dibromoethane (EDB) | 21,279 | 1.00 | 0.390 g | U | U | C24060726.D |
| Tetrachloroethene | 21,279 | 1.00 | 0.410 | 16.40 | 1.88 | C24060726.D |
| 1,1,1,2-Tetrachloroethane | 21,279 | 1.00 | 0.410 g | U | U | C24060726.D |
| Chlorobenzene | 21,279 | 1.00 | 0.850 g | U | U | C24060726.D |
| Ethylbenzene | 21,279 | 1.00 | 0.850 | 37.37 | 2.07 | C24060726.D |
| p & m-Xylene | 21,279 | 1.00 | 0.880 | 84.56 | 4.52 | C24060726.D |
| o-Xylene | 21,279 | 1.00 | 0.880 | 46.88 | 2.50 | C24060726.D |
| 1,2,3-Trichloropropane | 21,279 | 1.00 | 0.750 g | U | U | C24060726.D |
| Isopropylbenzene | 21,279 | 1.00 | 0.830 g | U | U | C24060726.D |
| 1,3,5-Trimethylbenzene | 21,279 | 1.00 | 0.830 g | U | U | C24060726.D |
| 1,2,4-Trimethylbenzene | 21,279 | 1.00 | 0.830 g | U | U | C24060726.D |
| 1,3-Dichlorobenzene | 21,279 | 1.00 | 0.750 g | U | U | C24060726.D |
| 1,4-Dichlorobenzene | 21,279 | 1.00 | 0.750 g | U | U | C24060726.D |
| 1,2-Dichlorobenzene | 21,279 | 1.00 | 0.750 g | U | U | C24060726.D |
| 1,2,4-Trichlorobenzene | 21,279 | 1.00 | 0.390 g | U | U | C24060726.D |
| Naphthalene | 21,279 | 1.00 | 0.800 g | U | U | C24060726.D |
| 1,2,3-Trichlorobenzene | 21,279 | 1.00 | 0.390 g | U | U | C24060726.D |
| 2-Methylnaphthalene | 21,279 | 1.00 | 0.760 g | U | U | C24060726.D |
| TPH C4-C9 | 21,279 | 1.00 | 0.590 g | 131011.70 | 10,400 | C24060726.D |
| TPH C10-C15 | 21,279 | 1.00 | 0.690 g | 98804.53 | 6,730 | C24060726.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-09 **Sample Name:** PSG-25C | | | | | | |
| Vinyl Chloride | 21,301 | 1.00 | 0.810 | U | U | C24060727.D |
| 1,1-Dichloroethene | 21,301 | 1.00 | 0.330 | U | U | C24060727.D |
| Methylene Chloride | 21,301 | 1.00 | 0.350 g | U | U | C24060727.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,301 | 1.00 | 0.890 g | U | U | C24060727.D |
| trans-1,2-Dichloroethene | 21,301 | 1.00 | 0.440 | U | U | C24060727.D |
| Methyl-t-butyl ether | 21,301 | 1.00 | 0.500 g | U | U | C24060727.D |
| 1,1-Dichloroethane | 21,301 | 1.00 | 0.850 | U | U | C24060727.D |
| cis-1,2-Dichloroethene | 21,301 | 1.00 | 0.530 | U | U | C24060727.D |
| Chloroform | 21,301 | 1.00 | 0.350 g | U | U | C24060727.D |
| 1,2-Dichloroethane | 21,301 | 1.00 | 0.560 | U | U | C24060727.D |
| 1,1,1-Trichloroethane | 21,301 | 1.00 | 1.050 | U | U | C24060727.D |
| Carbon Tetrachloride | 21,301 | 1.00 | 0.430 g | U | U | C24060727.D |
| Benzene | 21,301 | 1.00 | 0.530 | 96.72 | 8.57 | C24060727.D |
| Trichloroethene | 21,301 | 1.00 | 0.330 | U | U | C24060727.D |
| 1,4-Dioxane | 21,301 | 1.00 | 0.410 g | U | U | C24060727.D |
| 1,1,2-Trichloroethane | 21,301 | 1.00 | 0.330 g | U | U | C24060727.D |
| Toluene | 21,301 | 1.00 | 0.400 | 78.62 | 9.23 | C24060727.D |
| 1,2-Dibromoethane (EDB) | 21,301 | 1.00 | 0.390 g | U | U | C24060727.D |
| Tetrachloroethene | 21,301 | 1.00 | 0.410 | 90.88 | 10.4 | C24060727.D |
| 1,1,1,2-Tetrachloroethane | 21,301 | 1.00 | 0.410 g | U | U | C24060727.D |
| Chlorobenzene | 21,301 | 1.00 | 0.850 g | U | U | C24060727.D |
| Ethylbenzene | 21,301 | 1.00 | 0.850 | U | U | C24060727.D |
| p & m-Xylene | 21,301 | 1.00 | 0.880 | 113.63 | 6.06 | C24060727.D |
| o-Xylene | 21,301 | 1.00 | 0.880 | 54.31 | 2.90 | C24060727.D |
| 1,2,3-Trichloropropane | 21,301 | 1.00 | 0.750 g | U | U | C24060727.D |
| Isopropylbenzene | 21,301 | 1.00 | 0.830 g | U | U | C24060727.D |
| 1,3,5-Trimethylbenzene | 21,301 | 1.00 | 0.830 g | 31.38 | 1.77 | C24060727.D |
| 1,2,4-Trimethylbenzene | 21,301 | 1.00 | 0.830 g | 103.59 | 5.86 | C24060727.D |
| 1,3-Dichlorobenzene | 21,301 | 1.00 | 0.750 g | U | U | C24060727.D |
| 1,4-Dichlorobenzene | 21,301 | 1.00 | 0.750 g | U | U | C24060727.D |
| 1,2-Dichlorobenzene | 21,301 | 1.00 | 0.750 g | U | U | C24060727.D |
| 1,2,4-Trichlorobenzene | 21,301 | 1.00 | 0.390 g | U | U | C24060727.D |
| Naphthalene | 21,301 | 1.00 | 0.800 g | 80.29 | 4.71 | C24060727.D |
| 1,2,3-Trichlorobenzene | 21,301 | 1.00 | 0.390 g | U | U | C24060727.D |
| 2-Methylnaphthalene | 21,301 | 1.00 | 0.760 g | 35.08 | 2.17 | C24060727.D |
| TPH C4-C9 | 21,301 | 1.00 | 0.590 g | U | U | C24060727.D |
| TPH C10-C15 | 21,301 | 1.00 | 0.690 g | U | U | C24060727.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Result Calculation Summary (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-10 **Sample Name:** PSG-25D | | | | | | |
| Vinyl Chloride | 21,320 | 1.00 | 0.810 | U | U | C24060728.D |
| 1,1-Dichloroethene | 21,320 | 1.00 | 0.330 | U | U | C24060728.D |
| Methylene Chloride | 21,320 | 1.00 | 0.350 g | U | U | C24060728.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,320 | 1.00 | 0.890 g | U | U | C24060728.D |
| trans-1,2-Dichloroethene | 21,320 | 1.00 | 0.440 | U | U | C24060728.D |
| Methyl-t-butyl ether | 21,320 | 1.00 | 0.500 g | U | U | C24060728.D |
| 1,1-Dichloroethane | 21,320 | 1.00 | 0.850 | U | U | C24060728.D |
| cis-1,2-Dichloroethene | 21,320 | 1.00 | 0.530 | U | U | C24060728.D |
| Chloroform | 21,320 | 1.00 | 0.350 g | U | U | C24060728.D |
| 1,2-Dichloroethane | 21,320 | 1.00 | 0.560 | U | U | C24060728.D |
| 1,1,1-Trichloroethane | 21,320 | 1.00 | 1.050 | U | U | C24060728.D |
| Carbon Tetrachloride | 21,320 | 1.00 | 0.430 g | U | U | C24060728.D |
| Benzene | 21,320 | 1.00 | 0.530 | 87.53 | 7.75 | C24060728.D |
| Trichloroethene | 21,320 | 1.00 | 0.330 | 17.35 | 2.47 | C24060728.D |
| 1,4-Dioxane | 21,320 | 1.00 | 0.410 g | U | U | C24060728.D |
| 1,1,2-Trichloroethane | 21,320 | 1.00 | 0.330 g | U | U | C24060728.D |
| Toluene | 21,320 | 1.00 | 0.400 | 58.52 | 6.86 | C24060728.D |
| 1,2-Dibromoethane (EDB) | 21,320 | 1.00 | 0.390 g | U | U | C24060728.D |
| Tetrachloroethene | 21,320 | 1.00 | 0.410 | 173.06 | 19.8 | C24060728.D |
| 1,1,1,2-Tetrachloroethane | 21,320 | 1.00 | 0.410 g | U | U | C24060728.D |
| Chlorobenzene | 21,320 | 1.00 | 0.850 g | U | U | C24060728.D |
| Ethylbenzene | 21,320 | 1.00 | 0.850 | U | U | C24060728.D |
| p & m-Xylene | 21,320 | 1.00 | 0.880 | 62.87 | 3.35 | C24060728.D |
| o-Xylene | 21,320 | 1.00 | 0.880 | 44.49 | 2.37 | C24060728.D |
| 1,2,3-Trichloropropane | 21,320 | 1.00 | 0.750 g | U | U | C24060728.D |
| Isopropylbenzene | 21,320 | 1.00 | 0.830 g | U | U | C24060728.D |
| 1,3,5-Trimethylbenzene | 21,320 | 1.00 | 0.830 g | U | U | C24060728.D |
| 1,2,4-Trimethylbenzene | 21,320 | 1.00 | 0.830 g | U | U | C24060728.D |
| 1,3-Dichlorobenzene | 21,320 | 1.00 | 0.750 g | U | U | C24060728.D |
| 1,4-Dichlorobenzene | 21,320 | 1.00 | 0.750 g | U | U | C24060728.D |
| 1,2-Dichlorobenzene | 21,320 | 1.00 | 0.750 g | U | U | C24060728.D |
| 1,2,4-Trichlorobenzene | 21,320 | 1.00 | 0.390 g | U | U | C24060728.D |
| Naphthalene | 21,320 | 1.00 | 0.800 g | U | U | C24060728.D |
| 1,2,3-Trichlorobenzene | 21,320 | 1.00 | 0.390 g | U | U | C24060728.D |
| 2-Methylnaphthalene | 21,320 | 1.00 | 0.760 g | U | U | C24060728.D |
| TPH C4-C9 | 21,320 | 1.00 | 0.590 g | 30249.97 | 2,400 | C24060728.D |
| TPH C10-C15 | 21,320 | 1.00 | 0.690 g | 15526.62 | 1,060 | C24060728.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-11 **Sample Name:** PSG-41A | | | | | | |
| Vinyl Chloride | 21,603 | 1.00 | 0.810 | U | U | C24060729.D |
| 1,1-Dichloroethene | 21,603 | 1.00 | 0.330 | U | U | C24060729.D |
| Methylene Chloride | 21,603 | 1.00 | 0.350 g | U | U | C24060729.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,603 | 1.00 | 0.890 g | U | U | C24060729.D |
| trans-1,2-Dichloroethene | 21,603 | 1.00 | 0.440 | U | U | C24060729.D |
| Methyl-t-butyl ether | 21,603 | 1.00 | 0.500 g | U | U | C24060729.D |
| 1,1-Dichloroethane | 21,603 | 1.00 | 0.850 | U | U | C24060729.D |
| cis-1,2-Dichloroethene | 21,603 | 1.00 | 0.530 | U | U | C24060729.D |
| Chloroform | 21,603 | 1.00 | 0.350 g | U | U | C24060729.D |
| 1,2-Dichloroethane | 21,603 | 1.00 | 0.560 | U | U | C24060729.D |
| 1,1,1-Trichloroethane | 21,603 | 1.00 | 1.050 | U | U | C24060729.D |
| Carbon Tetrachloride | 21,603 | 1.00 | 0.430 g | U | U | C24060729.D |
| Benzene | 21,603 | 1.00 | 0.530 | 71.37 | 6.23 | C24060729.D |
| Trichloroethene | 21,603 | 1.00 | 0.330 | U | U | C24060729.D |
| 1,4-Dioxane | 21,603 | 1.00 | 0.410 g | U | U | C24060729.D |
| 1,1,2-Trichloroethane | 21,603 | 1.00 | 0.330 g | U | U | C24060729.D |
| Toluene | 21,603 | 1.00 | 0.400 | U | U | C24060729.D |
| 1,2-Dibromoethane (EDB) | 21,603 | 1.00 | 0.390 g | U | U | C24060729.D |
| Tetrachloroethene | 21,603 | 1.00 | 0.410 | U | U | C24060729.D |
| 1,1,1,2-Tetrachloroethane | 21,603 | 1.00 | 0.410 g | U | U | C24060729.D |
| Chlorobenzene | 21,603 | 1.00 | 0.850 g | U | U | C24060729.D |
| Ethylbenzene | 21,603 | 1.00 | 0.850 | U | U | C24060729.D |
| p & m-Xylene | 21,603 | 1.00 | 0.880 | U | U | C24060729.D |
| o-Xylene | 21,603 | 1.00 | 0.880 | U | U | C24060729.D |
| 1,2,3-Trichloropropane | 21,603 | 1.00 | 0.750 g | U | U | C24060729.D |
| Isopropylbenzene | 21,603 | 1.00 | 0.830 g | U | U | C24060729.D |
| 1,3,5-Trimethylbenzene | 21,603 | 1.00 | 0.830 g | U | U | C24060729.D |
| 1,2,4-Trimethylbenzene | 21,603 | 1.00 | 0.830 g | U | U | C24060729.D |
| 1,3-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | U | U | C24060729.D |
| 1,4-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | U | U | C24060729.D |
| 1,2-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | U | U | C24060729.D |
| 1,2,4-Trichlorobenzene | 21,603 | 1.00 | 0.390 g | U | U | C24060729.D |
| Naphthalene | 21,603 | 1.00 | 0.800 g | U | U | C24060729.D |
| 1,2,3-Trichlorobenzene | 21,603 | 1.00 | 0.390 g | U | U | C24060729.D |
| 2-Methylnaphthalene | 21,603 | 1.00 | 0.760 g | U | U | C24060729.D |
| TPH C4-C9 | 21,603 | 1.00 | 0.590 g | U | U | C24060729.D |
| TPH C10-C15 | 21,603 | 1.00 | 0.690 g | U | U | C24060729.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-12 **Sample Name:** PSG-41B | | | | | | |
| Vinyl Chloride | 21,599 | 1.00 | 0.810 | U | U | C24060730.D |
| 1,1-Dichloroethene | 21,599 | 1.00 | 0.330 | 67.09 | 9.41 | C24060730.D |
| Methylene Chloride | 21,599 | 1.00 | 0.350 g | U | U | C24060730.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,599 | 1.00 | 0.890 g | U | U | C24060730.D |
| trans-1,2-Dichloroethene | 21,599 | 1.00 | 0.440 | 54.56 | 5.74 | C24060730.D |
| Methyl-t-butyl ether | 21,599 | 1.00 | 0.500 g | U | U | C24060730.D |
| 1,1-Dichloroethane | 21,599 | 1.00 | 0.850 | U | U | C24060730.D |
| cis-1,2-Dichloroethene | 21,599 | 1.00 | 0.530 | 288.65 | 25.2 | C24060730.D |
| Chloroform | 21,599 | 1.00 | 0.350 g | U | U | C24060730.D |
| 1,2-Dichloroethane | 21,599 | 1.00 | 0.560 | U | U | C24060730.D |
| 1,1,1-Trichloroethane | 21,599 | 1.00 | 1.050 | U | U | C24060730.D |
| Carbon Tetrachloride | 21,599 | 1.00 | 0.430 g | U | U | C24060730.D |
| Benzene | 21,599 | 1.00 | 0.530 | 29.98 | 2.62 | C24060730.D |
| Trichloroethene | 21,599 | 1.00 | 0.330 | 9750.77 | 1,370 | C24060730.D |
| 1,4-Dioxane | 21,599 | 1.00 | 0.410 g | U | U | C24060730.D |
| 1,1,2-Trichloroethane | 21,599 | 1.00 | 0.330 g | U | U | C24060730.D |
| Toluene | 21,599 | 1.00 | 0.400 | U | U | C24060730.D |
| 1,2-Dibromoethane (EDB) | 21,599 | 1.00 | 0.390 g | U | U | C24060730.D |
| Tetrachloroethene | 21,599 | 1.00 | 0.410 | 162.43 | 18.3 | C24060730.D |
| 1,1,1,2-Tetrachloroethane | 21,599 | 1.00 | 0.410 g | U | U | C24060730.D |
| Chlorobenzene | 21,599 | 1.00 | 0.850 g | U | U | C24060730.D |
| Ethylbenzene | 21,599 | 1.00 | 0.850 | U | U | C24060730.D |
| p & m-Xylene | 21,599 | 1.00 | 0.880 | U | U | C24060730.D |
| o-Xylene | 21,599 | 1.00 | 0.880 | U | U | C24060730.D |
| 1,2,3-Trichloropropane | 21,599 | 1.00 | 0.750 g | U | U | C24060730.D |
| Isopropylbenzene | 21,599 | 1.00 | 0.830 g | U | U | C24060730.D |
| 1,3,5-Trimethylbenzene | 21,599 | 1.00 | 0.830 g | U | U | C24060730.D |
| 1,2,4-Trimethylbenzene | 21,599 | 1.00 | 0.830 g | U | U | C24060730.D |
| 1,3-Dichlorobenzene | 21,599 | 1.00 | 0.750 g | U | U | C24060730.D |
| 1,4-Dichlorobenzene | 21,599 | 1.00 | 0.750 g | U | U | C24060730.D |
| 1,2-Dichlorobenzene | 21,599 | 1.00 | 0.750 g | U | U | C24060730.D |
| 1,2,4-Trichlorobenzene | 21,599 | 1.00 | 0.390 g | U | U | C24060730.D |
| Naphthalene | 21,599 | 1.00 | 0.800 g | U | U | C24060730.D |
| 1,2,3-Trichlorobenzene | 21,599 | 1.00 | 0.390 g | U | U | C24060730.D |
| 2-Methylnaphthalene | 21,599 | 1.00 | 0.760 g | U | U | C24060730.D |
| TPH C4-C9 | 21,599 | 1.00 | 0.590 g | U | U | C24060730.D |
| TPH C10-C15 | 21,599 | 1.00 | 0.690 g | U | U | C24060730.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Result Calculation Summary (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-13 **Sample Name:** PSG-41C | | | | | | |
| Vinyl Chloride | 21,578 | 1.00 | 0.810 | U | U | C24060731.D |
| 1,1-Dichloroethene | 21,578 | 1.00 | 0.330 | 24.89 | 3.50 | C24060731.D |
| Methylene Chloride | 21,578 | 1.00 | 0.350 g | U | U | C24060731.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,578 | 1.00 | 0.890 g | U | U | C24060731.D |
| trans-1,2-Dichloroethene | 21,578 | 1.00 | 0.440 | 30.24 | 3.19 | C24060731.D |
| Methyl-t-butyl ether | 21,578 | 1.00 | 0.500 g | U | U | C24060731.D |
| 1,1-Dichloroethane | 21,578 | 1.00 | 0.850 | U | U | C24060731.D |
| cis-1,2-Dichloroethene | 21,578 | 1.00 | 0.530 | 188.24 | 16.5 | C24060731.D |
| Chloroform | 21,578 | 1.00 | 0.350 g | U | U | C24060731.D |
| 1,2-Dichloroethane | 21,578 | 1.00 | 0.560 | U | U | C24060731.D |
| 1,1,1-Trichloroethane | 21,578 | 1.00 | 1.050 | U | U | C24060731.D |
| Carbon Tetrachloride | 21,578 | 1.00 | 0.430 g | U | U | C24060731.D |
| Benzene | 21,578 | 1.00 | 0.530 | 29.85 | 2.61 | C24060731.D |
| Trichloroethene | 21,578 | 1.00 | 0.330 | 4824.09 | 677 | C24060731.D |
| 1,4-Dioxane | 21,578 | 1.00 | 0.410 g | U | U | C24060731.D |
| 1,1,2-Trichloroethane | 21,578 | 1.00 | 0.330 g | U | U | C24060731.D |
| Toluene | 21,578 | 1.00 | 0.400 | U | U | C24060731.D |
| 1,2-Dibromoethane (EDB) | 21,578 | 1.00 | 0.390 g | U | U | C24060731.D |
| Tetrachloroethene | 21,578 | 1.00 | 0.410 | U | U | C24060731.D |
| 1,1,1,2-Tetrachloroethane | 21,578 | 1.00 | 0.410 g | U | U | C24060731.D |
| Chlorobenzene | 21,578 | 1.00 | 0.850 g | U | U | C24060731.D |
| Ethylbenzene | 21,578 | 1.00 | 0.850 | U | U | C24060731.D |
| p & m-Xylene | 21,578 | 1.00 | 0.880 | U | U | C24060731.D |
| o-Xylene | 21,578 | 1.00 | 0.880 | U | U | C24060731.D |
| 1,2,3-Trichloropropane | 21,578 | 1.00 | 0.750 g | U | U | C24060731.D |
| Isopropylbenzene | 21,578 | 1.00 | 0.830 g | U | U | C24060731.D |
| 1,3,5-Trimethylbenzene | 21,578 | 1.00 | 0.830 g | U | U | C24060731.D |
| 1,2,4-Trimethylbenzene | 21,578 | 1.00 | 0.830 g | U | U | C24060731.D |
| 1,3-Dichlorobenzene | 21,578 | 1.00 | 0.750 g | U | U | C24060731.D |
| 1,4-Dichlorobenzene | 21,578 | 1.00 | 0.750 g | U | U | C24060731.D |
| 1,2-Dichlorobenzene | 21,578 | 1.00 | 0.750 g | U | U | C24060731.D |
| 1,2,4-Trichlorobenzene | 21,578 | 1.00 | 0.390 g | U | U | C24060731.D |
| Naphthalene | 21,578 | 1.00 | 0.800 g | U | U | C24060731.D |
| 1,2,3-Trichlorobenzene | 21,578 | 1.00 | 0.390 g | U | U | C24060731.D |
| 2-Methylnaphthalene | 21,578 | 1.00 | 0.760 g | U | U | C24060731.D |
| TPH C4-C9 | 21,578 | 1.00 | 0.590 g | U | U | C24060731.D |
| TPH C10-C15 | 21,578 | 1.00 | 0.690 g | U | U | C24060731.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Result Calculation Summary (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-14 **Sample Name:** PSG-41D | | | | | | |
| Vinyl Chloride | 21,560 | 1.00 | 0.810 | U | U | C24060732.D |
| 1,1-Dichloroethene | 21,560 | 1.00 | 0.330 | 129.79 | 18.2 | C24060732.D |
| Methylene Chloride | 21,560 | 1.00 | 0.350 g | U | U | C24060732.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,560 | 1.00 | 0.890 g | U | U | C24060732.D |
| trans-1,2-Dichloroethene | 21,560 | 1.00 | 0.440 | 66.60 | 7.02 | C24060732.D |
| Methyl-t-butyl ether | 21,560 | 1.00 | 0.500 g | U | U | C24060732.D |
| 1,1-Dichloroethane | 21,560 | 1.00 | 0.850 | U | U | C24060732.D |
| cis-1,2-Dichloroethene | 21,560 | 1.00 | 0.530 | 367.17 | 32.1 | C24060732.D |
| Chloroform | 21,560 | 1.00 | 0.350 g | U | U | C24060732.D |
| 1,2-Dichloroethane | 21,560 | 1.00 | 0.560 | U | U | C24060732.D |
| 1,1,1-Trichloroethane | 21,560 | 1.00 | 1.050 | U | U | C24060732.D |
| Carbon Tetrachloride | 21,560 | 1.00 | 0.430 g | U | U | C24060732.D |
| Benzene | 21,560 | 1.00 | 0.530 | 51.21 | 4.48 | C24060732.D |
| Trichloroethene | 21,560 | 19.05 | 0.330 | 1973.82 | 5,280 | C24061005.D |
| 1,4-Dioxane | 21,560 | 1.00 | 0.410 g | U | U | C24060732.D |
| 1,1,2-Trichloroethane | 21,560 | 1.00 | 0.330 g | U | U | C24060732.D |
| Toluene | 21,560 | 1.00 | 0.400 | U | U | C24060732.D |
| 1,2-Dibromoethane (EDB) | 21,560 | 1.00 | 0.390 g | U | U | C24060732.D |
| Tetrachloroethene | 21,560 | 1.00 | 0.410 | 13.59 | 1.54 | C24060732.D |
| 1,1,1,2-Tetrachloroethane | 21,560 | 1.00 | 0.410 g | U | U | C24060732.D |
| Chlorobenzene | 21,560 | 1.00 | 0.850 g | U | U | C24060732.D |
| Ethylbenzene | 21,560 | 1.00 | 0.850 | U | U | C24060732.D |
| p & m-Xylene | 21,560 | 1.00 | 0.880 | U | U | C24060732.D |
| o-Xylene | 21,560 | 1.00 | 0.880 | U | U | C24060732.D |
| 1,2,3-Trichloropropane | 21,560 | 1.00 | 0.750 g | U | U | C24060732.D |
| Isopropylbenzene | 21,560 | 1.00 | 0.830 g | U | U | C24060732.D |
| 1,3,5-Trimethylbenzene | 21,560 | 1.00 | 0.830 g | U | U | C24060732.D |
| 1,2,4-Trimethylbenzene | 21,560 | 1.00 | 0.830 g | U | U | C24060732.D |
| 1,3-Dichlorobenzene | 21,560 | 1.00 | 0.750 g | U | U | C24060732.D |
| 1,4-Dichlorobenzene | 21,560 | 1.00 | 0.750 g | U | U | C24060732.D |
| 1,2-Dichlorobenzene | 21,560 | 1.00 | 0.750 g | U | U | C24060732.D |
| 1,2,4-Trichlorobenzene | 21,560 | 1.00 | 0.390 g | U | U | C24060732.D |
| Naphthalene | 21,560 | 1.00 | 0.800 g | U | U | C24060732.D |
| 1,2,3-Trichlorobenzene | 21,560 | 1.00 | 0.390 g | U | U | C24060732.D |
| 2-Methylnaphthalene | 21,560 | 1.00 | 0.760 g | U | U | C24060732.D |
| TPH C4-C9 | 21,560 | 1.00 | 0.590 g | U | U | C24060732.D |
| TPH C10-C15 | 21,560 | 1.00 | 0.690 g | U | U | C24060732.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-15 **Sample Name:** PSG-62A | | | | | | |
| Vinyl Chloride | 21,193 | 1.00 | 0.810 | U | U | C24060733.D |
| 1,1-Dichloroethene | 21,193 | 1.00 | 0.330 | U | U | C24060733.D |
| Methylene Chloride | 21,193 | 1.00 | 0.350 g | U | U | C24060733.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,193 | 1.00 | 0.890 g | U | U | C24060733.D |
| trans-1,2-Dichloroethene | 21,193 | 1.00 | 0.440 | U | U | C24060733.D |
| Methyl-t-butyl ether | 21,193 | 1.00 | 0.500 g | U | U | C24060733.D |
| 1,1-Dichloroethane | 21,193 | 1.00 | 0.850 | U | U | C24060733.D |
| cis-1,2-Dichloroethene | 21,193 | 1.00 | 0.530 | 18.00 | 1.60 | C24060733.D |
| Chloroform | 21,193 | 1.00 | 0.350 g | U | U | C24060733.D |
| 1,2-Dichloroethane | 21,193 | 1.00 | 0.560 | U | U | C24060733.D |
| 1,1,1-Trichloroethane | 21,193 | 1.00 | 1.050 | U | U | C24060733.D |
| Carbon Tetrachloride | 21,193 | 1.00 | 0.430 g | U | U | C24060733.D |
| Benzene | 21,193 | 1.00 | 0.530 | 206.38 | 18.4 | C24060733.D |
| Trichloroethene | 21,193 | 1.00 | 0.330 | 644.37 | 92.1 | C24060733.D |
| 1,4-Dioxane | 21,193 | 1.00 | 0.410 g | U | U | C24060733.D |
| 1,1,2-Trichloroethane | 21,193 | 1.00 | 0.330 g | U | U | C24060733.D |
| Toluene | 21,193 | 1.00 | 0.400 | 142.29 | 16.8 | C24060733.D |
| 1,2-Dibromoethane (EDB) | 21,193 | 1.00 | 0.390 g | U | U | C24060733.D |
| Tetrachloroethene | 21,193 | 1.00 | 0.410 | 474.39 | 54.6 | C24060733.D |
| 1,1,1,2-Tetrachloroethane | 21,193 | 1.00 | 0.410 g | U | U | C24060733.D |
| Chlorobenzene | 21,193 | 1.00 | 0.850 g | U | U | C24060733.D |
| Ethylbenzene | 21,193 | 1.00 | 0.850 | 35.75 | 1.98 | C24060733.D |
| p & m-Xylene | 21,193 | 1.00 | 0.880 | 95.58 | 5.12 | C24060733.D |
| o-Xylene | 21,193 | 1.00 | 0.880 | 78.00 | 4.18 | C24060733.D |
| 1,2,3-Trichloropropane | 21,193 | 1.00 | 0.750 g | U | U | C24060733.D |
| Isopropylbenzene | 21,193 | 1.00 | 0.830 g | U | U | C24060733.D |
| 1,3,5-Trimethylbenzene | 21,193 | 1.00 | 0.830 g | 92.38 | 5.25 | C24060733.D |
| 1,2,4-Trimethylbenzene | 21,193 | 1.00 | 0.830 g | 167.03 | 9.50 | C24060733.D |
| 1,3-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | U | U | C24060733.D |
| 1,4-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 28.39 | 1.79 | C24060733.D |
| 1,2-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 62.41 | 3.93 | C24060733.D |
| 1,2,4-Trichlorobenzene | 21,193 | 1.00 | 0.390 g | U | U | C24060733.D |
| Naphthalene | 21,193 | 342.15 | 0.800 g | 52.09 | 1,050 | C24061010.D |
| 1,2,3-Trichlorobenzene | 21,193 | 1.00 | 0.390 g | U | U | C24060733.D |
| 2-Methylnaphthalene | 21,193 | 19.05 | 0.760 g | 703.71 | 832 | C24061006.D |
| TPH C4-C9 | 21,193 | 1.00 | 0.590 g | 9543.01 | 763 | C24060733.D |
| TPH C10-C15 | 21,193 | 1.00 | 0.690 g | 23595.63 | 1,610 | C24060733.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Sample Result Calculation Summary (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-16 **Sample Name:** DUP-02 | | | | | | |
| Vinyl Chloride | 21,193 | 1.00 | 0.810 | U | U | C24060734.D |
| 1,1-Dichloroethene | 21,193 | 1.00 | 0.330 | U | U | C24060734.D |
| Methylene Chloride | 21,193 | 1.00 | 0.350 g | U | U | C24060734.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,193 | 1.00 | 0.890 g | U | U | C24060734.D |
| trans-1,2-Dichloroethene | 21,193 | 1.00 | 0.440 | U | U | C24060734.D |
| Methyl-t-butyl ether | 21,193 | 1.00 | 0.500 g | U | U | C24060734.D |
| 1,1-Dichloroethane | 21,193 | 1.00 | 0.850 | U | U | C24060734.D |
| cis-1,2-Dichloroethene | 21,193 | 1.00 | 0.530 | U | U | C24060734.D |
| Chloroform | 21,193 | 1.00 | 0.350 g | U | U | C24060734.D |
| 1,2-Dichloroethane | 21,193 | 1.00 | 0.560 | U | U | C24060734.D |
| 1,1,1-Trichloroethane | 21,193 | 1.00 | 1.050 | U | U | C24060734.D |
| Carbon Tetrachloride | 21,193 | 1.00 | 0.430 g | U | U | C24060734.D |
| Benzene | 21,193 | 1.00 | 0.530 | 59.46 | 5.29 | C24060734.D |
| Trichloroethene | 21,193 | 1.00 | 0.330 | 376.74 | 53.9 | C24060734.D |
| 1,4-Dioxane | 21,193 | 1.00 | 0.410 g | U | U | C24060734.D |
| 1,1,2-Trichloroethane | 21,193 | 1.00 | 0.330 g | U | U | C24060734.D |
| Toluene | 21,193 | 1.00 | 0.400 | 38.69 | 4.56 | C24060734.D |
| 1,2-Dibromoethane (EDB) | 21,193 | 1.00 | 0.390 g | U | U | C24060734.D |
| Tetrachloroethene | 21,193 | 1.00 | 0.410 | 189.27 | 21.8 | C24060734.D |
| 1,1,1,2-Tetrachloroethane | 21,193 | 1.00 | 0.410 g | U | U | C24060734.D |
| Chlorobenzene | 21,193 | 1.00 | 0.850 g | U | U | C24060734.D |
| Ethylbenzene | 21,193 | 1.00 | 0.850 | U | U | C24060734.D |
| p & m-Xylene | 21,193 | 1.00 | 0.880 | 41.61 | 2.23 | C24060734.D |
| o-Xylene | 21,193 | 1.00 | 0.880 | 29.31 | 1.57 | C24060734.D |
| 1,2,3-Trichloropropane | 21,193 | 1.00 | 0.750 g | U | U | C24060734.D |
| Isopropylbenzene | 21,193 | 1.00 | 0.830 g | U | U | C24060734.D |
| 1,3,5-Trimethylbenzene | 21,193 | 1.00 | 0.830 g | 73.85 | 4.20 | C24060734.D |
| 1,2,4-Trimethylbenzene | 21,193 | 1.00 | 0.830 g | 144.36 | 8.21 | C24060734.D |
| 1,3-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | U | U | C24060734.D |
| 1,4-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 25.99 | 1.64 | C24060734.D |
| 1,2-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 53.15 | 3.34 | C24060734.D |
| 1,2,4-Trichlorobenzene | 21,193 | 1.00 | 0.390 g | U | U | C24060734.D |
| Naphthalene | 21,193 | 342.15 | 0.800 g | 59.89 | 1,210 | C24061011.D |
| 1,2,3-Trichlorobenzene | 21,193 | 1.00 | 0.390 g | U | U | C24060734.D |
| 2-Methylnaphthalene | 21,193 | 19.05 | 0.760 g | 815.26 | 964 | C24061007.D |
| TPH C4-C9 | 21,193 | 1.00 | 0.590 g | U | U | C24060734.D |
| TPH C10-C15 | 21,193 | 1.00 | 0.690 g | 24318.15 | 1,660 | C24060734.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Result Calculation Summary (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-17 **Sample Name:** PSG-62B | | | | | | |
| Vinyl Chloride | 21,186 | 1.00 | 0.810 | U | U | C24060735.D |
| 1,1-Dichloroethene | 21,186 | 1.00 | 0.330 | 22.11 | 3.16 | C24060735.D |
| Methylene Chloride | 21,186 | 1.00 | 0.350 g | U | U | C24060735.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,186 | 1.00 | 0.890 g | U | U | C24060735.D |
| trans-1,2-Dichloroethene | 21,186 | 1.00 | 0.440 | 166.76 | 17.9 | C24060735.D |
| Methyl-t-butyl ether | 21,186 | 1.00 | 0.500 g | U | U | C24060735.D |
| 1,1-Dichloroethane | 21,186 | 1.00 | 0.850 | U | U | C24060735.D |
| cis-1,2-Dichloroethene | 21,186 | 1.00 | 0.530 | 298.71 | 26.6 | C24060735.D |
| Chloroform | 21,186 | 1.00 | 0.350 g | U | U | C24060735.D |
| 1,2-Dichloroethane | 21,186 | 1.00 | 0.560 | U | U | C24060735.D |
| 1,1,1-Trichloroethane | 21,186 | 1.00 | 1.050 | U | U | C24060735.D |
| Carbon Tetrachloride | 21,186 | 1.00 | 0.430 g | U | U | C24060735.D |
| Benzene | 21,186 | 1.00 | 0.530 | 32.24 | 2.87 | C24060735.D |
| Trichloroethene | 21,186 | 1.00 | 0.330 | 2406.34 | 344 | C24060735.D |
| 1,4-Dioxane | 21,186 | 1.00 | 0.410 g | 13.51 | 1.56 | C24060735.D |
| 1,1,2-Trichloroethane | 21,186 | 1.00 | 0.330 g | U | U | C24060735.D |
| Toluene | 21,186 | 1.00 | 0.400 | U | U | C24060735.D |
| 1,2-Dibromoethane (EDB) | 21,186 | 1.00 | 0.390 g | U | U | C24060735.D |
| Tetrachloroethene | 21,186 | 1.00 | 0.410 | 32.20 | 3.71 | C24060735.D |
| 1,1,1,2-Tetrachloroethane | 21,186 | 1.00 | 0.410 g | U | U | C24060735.D |
| Chlorobenzene | 21,186 | 1.00 | 0.850 g | U | U | C24060735.D |
| Ethylbenzene | 21,186 | 1.00 | 0.850 | U | U | C24060735.D |
| p & m-Xylene | 21,186 | 1.00 | 0.880 | 42.38 | 2.27 | C24060735.D |
| o-Xylene | 21,186 | 1.00 | 0.880 | U | U | C24060735.D |
| 1,2,3-Trichloropropane | 21,186 | 1.00 | 0.750 g | U | U | C24060735.D |
| Isopropylbenzene | 21,186 | 1.00 | 0.830 g | U | U | C24060735.D |
| 1,3,5-Trimethylbenzene | 21,186 | 1.00 | 0.830 g | U | U | C24060735.D |
| 1,2,4-Trimethylbenzene | 21,186 | 1.00 | 0.830 g | U | U | C24060735.D |
| 1,3-Dichlorobenzene | 21,186 | 1.00 | 0.750 g | U | U | C24060735.D |
| 1,4-Dichlorobenzene | 21,186 | 1.00 | 0.750 g | U | U | C24060735.D |
| 1,2-Dichlorobenzene | 21,186 | 1.00 | 0.750 g | U | U | C24060735.D |
| 1,2,4-Trichlorobenzene | 21,186 | 1.00 | 0.390 g | U | U | C24060735.D |
| Naphthalene | 21,186 | 1.00 | 0.800 g | 279.22 | 16.5 | C24060735.D |
| 1,2,3-Trichlorobenzene | 21,186 | 1.00 | 0.390 g | U | U | C24060735.D |
| 2-Methylnaphthalene | 21,186 | 1.00 | 0.760 g | 119.19 | 7.40 | C24060735.D |
| TPH C4-C9 | 21,186 | 1.00 | 0.590 g | 8474.29 | 678 | C24060735.D |
| TPH C10-C15 | 21,186 | 1.00 | 0.690 g | U | U | C24060735.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Result Calculation Summary (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-18 **Sample Name:** PSG-62C | | | | | | |
| Vinyl Chloride | 21,168 | 1.00 | 0.810 | U | U | C24060736.D |
| 1,1-Dichloroethene | 21,168 | 1.00 | 0.330 | U | U | C24060736.D |
| Methylene Chloride | 21,168 | 1.00 | 0.350 g | U | U | C24060736.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,168 | 1.00 | 0.890 g | U | U | C24060736.D |
| trans-1,2-Dichloroethene | 21,168 | 1.00 | 0.440 | U | U | C24060736.D |
| Methyl-t-butyl ether | 21,168 | 1.00 | 0.500 g | U | U | C24060736.D |
| 1,1-Dichloroethane | 21,168 | 1.00 | 0.850 | U | U | C24060736.D |
| cis-1,2-Dichloroethene | 21,168 | 1.00 | 0.530 | 22.12 | 1.97 | C24060736.D |
| Chloroform | 21,168 | 1.00 | 0.350 g | U | U | C24060736.D |
| 1,2-Dichloroethane | 21,168 | 1.00 | 0.560 | U | U | C24060736.D |
| 1,1,1-Trichloroethane | 21,168 | 1.00 | 1.050 | U | U | C24060736.D |
| Carbon Tetrachloride | 21,168 | 1.00 | 0.430 g | U | U | C24060736.D |
| Benzene | 21,168 | 1.00 | 0.530 | 52.57 | 4.69 | C24060736.D |
| Trichloroethene | 21,168 | 1.00 | 0.330 | 1044.21 | 149 | C24060736.D |
| 1,4-Dioxane | 21,168 | 1.00 | 0.410 g | 12.65 | 1.46 | C24060736.D |
| 1,1,2-Trichloroethane | 21,168 | 1.00 | 0.330 g | U | U | C24060736.D |
| Toluene | 21,168 | 1.00 | 0.400 | 33.35 | 3.94 | C24060736.D |
| 1,2-Dibromoethane (EDB) | 21,168 | 1.00 | 0.390 g | U | U | C24060736.D |
| Tetrachloroethene | 21,168 | 1.00 | 0.410 | 24.30 | 2.80 | C24060736.D |
| 1,1,1,2-Tetrachloroethane | 21,168 | 1.00 | 0.410 g | U | U | C24060736.D |
| Chlorobenzene | 21,168 | 1.00 | 0.850 g | U | U | C24060736.D |
| Ethylbenzene | 21,168 | 1.00 | 0.850 | U | U | C24060736.D |
| p & m-Xylene | 21,168 | 1.00 | 0.880 | U | U | C24060736.D |
| o-Xylene | 21,168 | 1.00 | 0.880 | U | U | C24060736.D |
| 1,2,3-Trichloropropane | 21,168 | 1.00 | 0.750 g | U | U | C24060736.D |
| Isopropylbenzene | 21,168 | 1.00 | 0.830 g | U | U | C24060736.D |
| 1,3,5-Trimethylbenzene | 21,168 | 1.00 | 0.830 g | U | U | C24060736.D |
| 1,2,4-Trimethylbenzene | 21,168 | 1.00 | 0.830 g | U | U | C24060736.D |
| 1,3-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | U | U | C24060736.D |
| 1,4-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | U | U | C24060736.D |
| 1,2-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | U | U | C24060736.D |
| 1,2,4-Trichlorobenzene | 21,168 | 1.00 | 0.390 g | U | U | C24060736.D |
| Naphthalene | 21,168 | 1.00 | 0.800 g | 120.78 | 7.13 | C24060736.D |
| 1,2,3-Trichlorobenzene | 21,168 | 1.00 | 0.390 g | U | U | C24060736.D |
| 2-Methylnaphthalene | 21,168 | 1.00 | 0.760 g | 40.48 | 2.52 | C24060736.D |
| TPH C4-C9 | 21,168 | 1.00 | 0.590 g | U | U | C24060736.D |
| TPH C10-C15 | 21,168 | 1.00 | 0.690 g | U | U | C24060736.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Sample Result Calculation Summary (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m³ | File ID |
|---|---|---|---|---|---|---|
| **Lab ID:** 0007787-19 **Sample Name:** PSG-62D | | | | | | |
| Vinyl Chloride | 21,168 | 1.00 | 0.810 | U | U | C24060737.D |
| 1,1-Dichloroethene | 21,168 | 1.00 | 0.330 | 117.83 | 16.9 | C24060737.D |
| Methylene Chloride | 21,168 | 1.00 | 0.350 g | U | U | C24060737.D |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,168 | 1.00 | 0.890 g | U | U | C24060737.D |
| trans-1,2-Dichloroethene | 21,168 | 1.00 | 0.440 | 117.50 | 12.6 | C24060737.D |
| Methyl-t-butyl ether | 21,168 | 1.00 | 0.500 g | U | U | C24060737.D |
| 1,1-Dichloroethane | 21,168 | 1.00 | 0.850 | U | U | C24060737.D |
| cis-1,2-Dichloroethene | 21,168 | 1.00 | 0.530 | 522.51 | 46.6 | C24060737.D |
| Chloroform | 21,168 | 1.00 | 0.350 g | U | U | C24060737.D |
| 1,2-Dichloroethane | 21,168 | 1.00 | 0.560 | U | U | C24060737.D |
| 1,1,1-Trichloroethane | 21,168 | 1.00 | 1.050 | U | U | C24060737.D |
| Carbon Tetrachloride | 21,168 | 1.00 | 0.430 g | U | U | C24060737.D |
| Benzene | 21,168 | 1.00 | 0.530 | 95.08 | 8.47 | C24060737.D |
| Trichloroethene | 21,168 | 19.05 | 0.330 | 2360.99 | 6,440 | C24061008.D |
| 1,4-Dioxane | 21,168 | 1.00 | 0.410 g | U | U | C24060737.D |
| 1,1,2-Trichloroethane | 21,168 | 1.00 | 0.330 g | U | U | C24060737.D |
| Toluene | 21,168 | 1.00 | 0.400 | 48.30 | 5.70 | C24060737.D |
| 1,2-Dibromoethane (EDB) | 21,168 | 1.00 | 0.390 g | U | U | C24060737.D |
| Tetrachloroethene | 21,168 | 1.00 | 0.410 | 2614.71 | 301 | C24060737.D |
| 1,1,1,2-Tetrachloroethane | 21,168 | 1.00 | 0.410 g | U | U | C24060737.D |
| Chlorobenzene | 21,168 | 1.00 | 0.850 g | U | U | C24060737.D |
| Ethylbenzene | 21,168 | 1.00 | 0.850 | U | U | C24060737.D |
| p & m-Xylene | 21,168 | 1.00 | 0.880 | U | U | C24060737.D |
| o-Xylene | 21,168 | 1.00 | 0.880 | U | U | C24060737.D |
| 1,2,3-Trichloropropane | 21,168 | 1.00 | 0.750 g | U | U | C24060737.D |
| Isopropylbenzene | 21,168 | 1.00 | 0.830 g | U | U | C24060737.D |
| 1,3,5-Trimethylbenzene | 21,168 | 1.00 | 0.830 g | U | U | C24060737.D |
| 1,2,4-Trimethylbenzene | 21,168 | 1.00 | 0.830 g | U | U | C24060737.D |
| 1,3-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | U | U | C24060737.D |
| 1,4-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | U | U | C24060737.D |
| 1,2-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | U | U | C24060737.D |
| 1,2,4-Trichlorobenzene | 21,168 | 1.00 | 0.390 g | U | U | C24060737.D |
| Naphthalene | 21,168 | 1.00 | 0.800 g | U | U | C24060737.D |
| 1,2,3-Trichlorobenzene | 21,168 | 1.00 | 0.390 g | U | U | C24060737.D |
| 2-Methylnaphthalene | 21,168 | 1.00 | 0.760 g | U | U | C24060737.D |
| TPH C4-C9 | 21,168 | 1.00 | 0.590 g | U | U | C24060737.D |
| TPH C10-C15 | 21,168 | 1.00 | 0.690 g | U | U | C24060737.D |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

Calculations:

$$C = \frac{1000 \times M \times DF}{U \times t}$$

where: C = concentration ($\mu g/m^3$)
M = mass (ng)
DF = dilution factor
t = sampling time (minutes)
U = compound specific uptake rate

[g] = Uptake rate determined using Graham's Law of Diffusion.

*Reference: Federal Register/Vol. 79, No. 125/June 30, 2014*

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| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-01 **Sample Name:** Trip-1

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,603 | 1.00 | 0.810 | 10.0 | 0.57 |
| 1,1-Dichloroethene | 21,603 | 1.00 | 0.330 | 10.0 | 1.40 |
| Methylene Chloride | 21,603 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,603 | 1.00 | 0.890 g | 10.0 | 0.52 |
| trans-1,2-Dichloroethene | 21,603 | 1.00 | 0.440 | 10.0 | 1.05 |
| Methyl-t-butyl ether | 21,603 | 1.00 | 0.500 g | 25.0 | 2.31 |
| 1,1-Dichloroethane | 21,603 | 1.00 | 0.850 | 10.0 | 0.54 |
| cis-1,2-Dichloroethene | 21,603 | 1.00 | 0.530 | 10.0 | 0.87 |
| Chloroform | 21,603 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,2-Dichloroethane | 21,603 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,603 | 1.00 | 1.050 | 10.0 | 0.44 |
| Carbon Tetrachloride | 21,603 | 1.00 | 0.430 g | 10.0 | 1.08 |
| Benzene | 21,603 | 1.00 | 0.530 | 25.0 | 2.18 |
| Trichloroethene | 21,603 | 1.00 | 0.330 | 10.0 | 1.40 |
| 1,4-Dioxane | 21,603 | 1.00 | 0.410 g | 10.0 | 1.13 |
| 1,1,2-Trichloroethane | 21,603 | 1.00 | 0.330 g | 10.0 | 1.40 |
| Toluene | 21,603 | 1.00 | 0.400 | 25.0 | 2.89 |
| 1,2-Dibromoethane (EDB) | 21,603 | 1.00 | 0.390 g | 5.0 | 0.59 |
| Tetrachloroethene | 21,603 | 1.00 | 0.410 | 10.0 | 1.13 |
| 1,1,1,2-Tetrachloroethane | 21,603 | 1.00 | 0.410 g | 10.0 | 1.13 |
| Chlorobenzene | 21,603 | 1.00 | 0.850 g | 10.0 | 0.54 |
| Ethylbenzene | 21,603 | 1.00 | 0.850 | 25.0 | 1.36 |
| p & m-Xylene | 21,603 | 1.00 | 0.880 | 25.0 | 1.32 |
| o-Xylene | 21,603 | 1.00 | 0.880 | 25.0 | 1.32 |
| 1,2,3-Trichloropropane | 21,603 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,603 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,3,5-Trimethylbenzene | 21,603 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,2,4-Trimethylbenzene | 21,603 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,3-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,603 | 1.00 | 0.390 g | 10.0 | 1.19 |
| Naphthalene | 21,603 | 1.00 | 0.800 g | 25.0 | 1.45 |
| 1,2,3-Trichlorobenzene | 21,603 | 1.00 | 0.390 g | 10.0 | 1.19 |
| 2-Methylnaphthalene | 21,603 | 1.00 | 0.760 g | 25.0 | 1.52 |
| TPH C4-C9 | 21,603 | 1.00 | 0.590 g | 5,000.0 | 392 |
| TPH C10-C15 | 21,603 | 1.00 | 0.690 g | 5,000.0 | 335 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-02 **Sample Name:** PSG-10A

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,504 | 1.00 | 0.810 | 10.0 | 0.57 |
| 1,1-Dichloroethene | 21,504 | 1.00 | 0.330 | 10.0 | 1.41 |
| Methylene Chloride | 21,504 | 1.00 | 0.350 g | 10.0 | 1.33 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,504 | 1.00 | 0.890 g | 10.0 | 0.52 |
| trans-1,2-Dichloroethene | 21,504 | 1.00 | 0.440 | 10.0 | 1.06 |
| Methyl-t-butyl ether | 21,504 | 1.00 | 0.500 g | 25.0 | 2.33 |
| 1,1-Dichloroethane | 21,504 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,504 | 1.00 | 0.530 | 10.0 | 0.88 |
| Chloroform | 21,504 | 1.00 | 0.350 g | 10.0 | 1.33 |
| 1,2-Dichloroethane | 21,504 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,504 | 1.00 | 1.050 | 10.0 | 0.44 |
| Carbon Tetrachloride | 21,504 | 1.00 | 0.430 g | 10.0 | 1.08 |
| Benzene | 21,504 | 1.00 | 0.530 | 25.0 | 2.19 |
| Trichloroethene | 21,504 | 1.00 | 0.330 | 10.0 | 1.41 |
| 1,4-Dioxane | 21,504 | 1.00 | 0.410 g | 10.0 | 1.13 |
| 1,1,2-Trichloroethane | 21,504 | 1.00 | 0.330 g | 10.0 | 1.41 |
| Toluene | 21,504 | 1.00 | 0.400 | 25.0 | 2.91 |
| 1,2-Dibromoethane (EDB) | 21,504 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,504 | 1.00 | 0.410 | 10.0 | 1.13 |
| 1,1,1,2-Tetrachloroethane | 21,504 | 1.00 | 0.410 g | 10.0 | 1.13 |
| Chlorobenzene | 21,504 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,504 | 1.00 | 0.850 | 25.0 | 1.37 |
| p & m-Xylene | 21,504 | 1.00 | 0.880 | 25.0 | 1.32 |
| o-Xylene | 21,504 | 1.00 | 0.880 | 25.0 | 1.32 |
| 1,2,3-Trichloropropane | 21,504 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,504 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3,5-Trimethylbenzene | 21,504 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,2,4-Trimethylbenzene | 21,504 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,504 | 1.00 | 0.390 g | 10.0 | 1.19 |
| Naphthalene | 21,504 | 1.00 | 0.800 g | 25.0 | 1.45 |
| 1,2,3-Trichlorobenzene | 21,504 | 1.00 | 0.390 g | 10.0 | 1.19 |
| 2-Methylnaphthalene | 21,504 | 1.00 | 0.760 g | 25.0 | 1.53 |
| TPH C4-C9 | 21,504 | 1.00 | 0.590 g | 5,000.0 | 394 |
| TPH C10-C15 | 21,504 | 1.00 | 0.690 g | 5,000.0 | 337 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-03 **Sample Name:** DUP-01

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,504 | 1.00 | 0.810 | 10.0 | 0.57 |
| 1,1-Dichloroethene | 21,504 | 1.00 | 0.330 | 10.0 | 1.41 |
| Methylene Chloride | 21,504 | 1.00 | 0.350 g | 10.0 | 1.33 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,504 | 1.00 | 0.890 g | 10.0 | 0.52 |
| trans-1,2-Dichloroethene | 21,504 | 1.00 | 0.440 | 10.0 | 1.06 |
| Methyl-t-butyl ether | 21,504 | 1.00 | 0.500 g | 25.0 | 2.33 |
| 1,1-Dichloroethane | 21,504 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,504 | 1.00 | 0.530 | 10.0 | 0.88 |
| Chloroform | 21,504 | 1.00 | 0.350 g | 10.0 | 1.33 |
| 1,2-Dichloroethane | 21,504 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,504 | 1.00 | 1.050 | 10.0 | 0.44 |
| Carbon Tetrachloride | 21,504 | 1.00 | 0.430 g | 10.0 | 1.08 |
| Benzene | 21,504 | 1.00 | 0.530 | 25.0 | 2.19 |
| Trichloroethene | 21,504 | 1.00 | 0.330 | 10.0 | 1.41 |
| 1,4-Dioxane | 21,504 | 1.00 | 0.410 g | 10.0 | 1.13 |
| 1,1,2-Trichloroethane | 21,504 | 1.00 | 0.330 g | 10.0 | 1.41 |
| Toluene | 21,504 | 1.00 | 0.400 | 25.0 | 2.91 |
| 1,2-Dibromoethane (EDB) | 21,504 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,504 | 1.00 | 0.410 | 10.0 | 1.13 |
| 1,1,1,2-Tetrachloroethane | 21,504 | 1.00 | 0.410 g | 10.0 | 1.13 |
| Chlorobenzene | 21,504 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,504 | 1.00 | 0.850 | 25.0 | 1.37 |
| p & m-Xylene | 21,504 | 1.00 | 0.880 | 25.0 | 1.32 |
| o-Xylene | 21,504 | 1.00 | 0.880 | 25.0 | 1.32 |
| 1,2,3-Trichloropropane | 21,504 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,504 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3,5-Trimethylbenzene | 21,504 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,2,4-Trimethylbenzene | 21,504 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,504 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,504 | 1.00 | 0.390 g | 10.0 | 1.19 |
| Naphthalene | 21,504 | 1.00 | 0.800 g | 25.0 | 1.45 |
| 1,2,3-Trichlorobenzene | 21,504 | 1.00 | 0.390 g | 10.0 | 1.19 |
| 2-Methylnaphthalene | 21,504 | 1.00 | 0.760 g | 25.0 | 1.53 |
| TPH C4-C9 | 21,504 | 1.00 | 0.590 g | 5,000.0 | 394 |
| TPH C10-C15 | 21,504 | 1.00 | 0.690 g | 5,000.0 | 337 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-04 **Sample Name:** PSG-10B

| Analyte | t Sampling Time minutes | DF Dilution Factor | U Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,381 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,381 | 1.00 | 0.330 | 10.0 | 1.42 |
| Methylene Chloride | 21,381 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,381 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,381 | 1.00 | 0.440 | 10.0 | 1.06 |
| Methyl-t-butyl ether | 21,381 | 1.00 | 0.500 g | 25.0 | 2.34 |
| 1,1-Dichloroethane | 21,381 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,381 | 1.00 | 0.530 | 10.0 | 0.88 |
| Chloroform | 21,381 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,2-Dichloroethane | 21,381 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,381 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,381 | 1.00 | 0.430 g | 10.0 | 1.09 |
| Benzene | 21,381 | 1.00 | 0.530 | 25.0 | 2.21 |
| Trichloroethene | 21,381 | 1.00 | 0.330 | 10.0 | 1.42 |
| 1,4-Dioxane | 21,381 | 1.00 | 0.410 g | 10.0 | 1.14 |
| 1,1,2-Trichloroethane | 21,381 | 1.00 | 0.330 g | 10.0 | 1.42 |
| Toluene | 21,381 | 1.00 | 0.400 | 25.0 | 2.92 |
| 1,2-Dibromoethane (EDB) | 21,381 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,381 | 1.00 | 0.410 | 10.0 | 1.14 |
| 1,1,1,2-Tetrachloroethane | 21,381 | 1.00 | 0.410 g | 10.0 | 1.14 |
| Chlorobenzene | 21,381 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,381 | 1.00 | 0.850 | 25.0 | 1.38 |
| p & m-Xylene | 21,381 | 1.00 | 0.880 | 25.0 | 1.33 |
| o-Xylene | 21,381 | 1.00 | 0.880 | 25.0 | 1.33 |
| 1,2,3-Trichloropropane | 21,381 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,381 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,3,5-Trimethylbenzene | 21,381 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,2,4-Trimethylbenzene | 21,381 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,3-Dichlorobenzene | 21,381 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,381 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,381 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,381 | 1.00 | 0.390 g | 10.0 | 1.20 |
| Naphthalene | 21,381 | 1.00 | 0.800 g | 25.0 | 1.46 |
| 1,2,3-Trichlorobenzene | 21,381 | 1.00 | 0.390 g | 10.0 | 1.20 |
| 2-Methylnaphthalene | 21,381 | 1.00 | 0.760 g | 25.0 | 1.54 |
| TPH C4-C9 | 21,381 | 1.00 | 0.590 g | 5,000.0 | 396 |
| TPH C10-C15 | 21,381 | 1.00 | 0.690 g | 5,000.0 | 339 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-05 **Sample Name:** PSG-10C

| Analyte | t Sampling Time minutes | DF Dilution Factor | U Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,576 | 1.00 | 0.810 | 10.0 | 0.57 |
| 1,1-Dichloroethene | 21,576 | 1.00 | 0.330 | 10.0 | 1.40 |
| Methylene Chloride | 21,576 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,576 | 1.00 | 0.890 g | 10.0 | 0.52 |
| trans-1,2-Dichloroethene | 21,576 | 1.00 | 0.440 | 10.0 | 1.05 |
| Methyl-t-butyl ether | 21,576 | 1.00 | 0.500 g | 25.0 | 2.32 |
| 1,1-Dichloroethane | 21,576 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,576 | 1.00 | 0.530 | 10.0 | 0.87 |
| Chloroform | 21,576 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,2-Dichloroethane | 21,576 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,576 | 1.00 | 1.050 | 10.0 | 0.44 |
| Carbon Tetrachloride | 21,576 | 1.00 | 0.430 g | 10.0 | 1.08 |
| Benzene | 21,576 | 1.00 | 0.530 | 25.0 | 2.19 |
| Trichloroethene | 21,576 | 1.00 | 0.330 | 10.0 | 1.40 |
| 1,4-Dioxane | 21,576 | 1.00 | 0.410 g | 10.0 | 1.13 |
| 1,1,2-Trichloroethane | 21,576 | 1.00 | 0.330 g | 10.0 | 1.40 |
| Toluene | 21,576 | 1.00 | 0.400 | 25.0 | 2.90 |
| 1,2-Dibromoethane (EDB) | 21,576 | 1.00 | 0.390 g | 5.0 | 0.59 |
| Tetrachloroethene | 21,576 | 1.00 | 0.410 | 10.0 | 1.13 |
| 1,1,1,2-Tetrachloroethane | 21,576 | 1.00 | 0.410 g | 10.0 | 1.13 |
| Chlorobenzene | 21,576 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,576 | 1.00 | 0.850 | 25.0 | 1.36 |
| p & m-Xylene | 21,576 | 1.00 | 0.880 | 25.0 | 1.32 |
| o-Xylene | 21,576 | 1.00 | 0.880 | 25.0 | 1.32 |
| 1,2,3-Trichloropropane | 21,576 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,576 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3,5-Trimethylbenzene | 21,576 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,2,4-Trimethylbenzene | 21,576 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3-Dichlorobenzene | 21,576 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,576 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,576 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,576 | 1.00 | 0.390 g | 10.0 | 1.19 |
| Naphthalene | 21,576 | 1.00 | 0.800 g | 25.0 | 1.45 |
| 1,2,3-Trichlorobenzene | 21,576 | 1.00 | 0.390 g | 10.0 | 1.19 |
| 2-Methylnaphthalene | 21,576 | 1.00 | 0.760 g | 25.0 | 1.52 |
| TPH C4-C9 | 21,576 | 1.00 | 0.590 g | 5,000.0 | 393 |
| TPH C10-C15 | 21,576 | 1.00 | 0.690 g | 5,000.0 | 336 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-06 **Sample Name:** PSG-10D

| Analyte | t Sampling Time minutes | DF Dilution Factor | U Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,386 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,386 | 1.00 | 0.330 | 10.0 | 1.42 |
| Methylene Chloride | 21,386 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,386 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,386 | 1.00 | 0.440 | 10.0 | 1.06 |
| Methyl-t-butyl ether | 21,386 | 1.00 | 0.500 g | 25.0 | 2.34 |
| 1,1-Dichloroethane | 21,386 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,386 | 1.00 | 0.530 | 10.0 | 0.88 |
| Chloroform | 21,386 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,2-Dichloroethane | 21,386 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,386 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,386 | 1.00 | 0.430 g | 10.0 | 1.09 |
| Benzene | 21,386 | 1.00 | 0.530 | 25.0 | 2.21 |
| Trichloroethene | 21,386 | 1.00 | 0.330 | 10.0 | 1.42 |
| 1,4-Dioxane | 21,386 | 1.00 | 0.410 g | 10.0 | 1.14 |
| 1,1,2-Trichloroethane | 21,386 | 1.00 | 0.330 g | 10.0 | 1.42 |
| Toluene | 21,386 | 1.00 | 0.400 | 25.0 | 2.92 |
| 1,2-Dibromoethane (EDB) | 21,386 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,386 | 1.00 | 0.410 | 10.0 | 1.14 |
| 1,1,1,2-Tetrachloroethane | 21,386 | 1.00 | 0.410 g | 10.0 | 1.14 |
| Chlorobenzene | 21,386 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,386 | 1.00 | 0.850 | 25.0 | 1.38 |
| p & m-Xylene | 21,386 | 1.00 | 0.880 | 25.0 | 1.33 |
| o-Xylene | 21,386 | 1.00 | 0.880 | 25.0 | 1.33 |
| 1,2,3-Trichloropropane | 21,386 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,386 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,3,5-Trimethylbenzene | 21,386 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,2,4-Trimethylbenzene | 21,386 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,3-Dichlorobenzene | 21,386 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,386 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,386 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,386 | 1.00 | 0.390 g | 10.0 | 1.20 |
| Naphthalene | 21,386 | 1.00 | 0.800 g | 25.0 | 1.46 |
| 1,2,3-Trichlorobenzene | 21,386 | 1.00 | 0.390 g | 10.0 | 1.20 |
| 2-Methylnaphthalene | 21,386 | 1.00 | 0.760 g | 25.0 | 1.54 |
| TPH C4-C9 | 21,386 | 1.00 | 0.590 g | 5,000.0 | 396 |
| TPH C10-C15 | 21,386 | 1.00 | 0.690 g | 5,000.0 | 339 |

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1.410.838.8780

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| **Lab ID:** 0007787-07 **Sample Name:** PSG-25A | | | | | |
| Vinyl Chloride | 21,270 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,270 | 1.00 | 0.330 | 10.0 | 1.42 |
| Methylene Chloride | 21,270 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,270 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,270 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,270 | 1.00 | 0.500 g | 25.0 | 2.35 |
| 1,1-Dichloroethane | 21,270 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,270 | 1.00 | 0.530 | 10.0 | 0.89 |
| Chloroform | 21,270 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,2-Dichloroethane | 21,270 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,270 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,270 | 1.00 | 0.430 g | 10.0 | 1.09 |
| Benzene | 21,270 | 1.00 | 0.530 | 25.0 | 2.22 |
| Trichloroethene | 21,270 | 1.00 | 0.330 | 10.0 | 1.42 |
| 1,4-Dioxane | 21,270 | 1.00 | 0.410 g | 10.0 | 1.15 |
| 1,1,2-Trichloroethane | 21,270 | 1.00 | 0.330 g | 10.0 | 1.42 |
| Toluene | 21,270 | 1.00 | 0.400 | 25.0 | 2.94 |
| 1,2-Dibromoethane (EDB) | 21,270 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,270 | 1.00 | 0.410 | 10.0 | 1.15 |
| 1,1,1,2-Tetrachloroethane | 21,270 | 1.00 | 0.410 g | 10.0 | 1.15 |
| Chlorobenzene | 21,270 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,270 | 1.00 | 0.850 | 25.0 | 1.38 |
| p & m-Xylene | 21,270 | 1.00 | 0.880 | 25.0 | 1.34 |
| o-Xylene | 21,270 | 1.00 | 0.880 | 25.0 | 1.34 |
| 1,2,3-Trichloropropane | 21,270 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,270 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3,5-Trimethylbenzene | 21,270 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,2,4-Trimethylbenzene | 21,270 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3-Dichlorobenzene | 21,270 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,270 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,270 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,270 | 1.00 | 0.390 g | 10.0 | 1.21 |
| Naphthalene | 21,270 | 1.00 | 0.800 g | 25.0 | 1.47 |
| 1,2,3-Trichlorobenzene | 21,270 | 1.00 | 0.390 g | 10.0 | 1.21 |
| 2-Methylnaphthalene | 21,270 | 1.00 | 0.760 g | 25.0 | 1.55 |
| TPH C4-C9 | 21,270 | 1.00 | 0.590 g | 5,000.0 | 398 |
| TPH C10-C15 | 21,270 | 1.00 | 0.690 g | 5,000.0 | 341 |

BEACON ENVIRONMENTAL

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Method Detection and Reporting Limit Calculations (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| **Lab ID:** 0007787-08 **Sample Name:** PSG-25B | | | | | |
| Vinyl Chloride | 21,279 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,279 | 1.00 | 0.330 | 10.0 | 1.42 |
| Methylene Chloride | 21,279 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,279 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,279 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,279 | 1.00 | 0.500 g | 25.0 | 2.35 |
| 1,1-Dichloroethane | 21,279 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,279 | 1.00 | 0.530 | 10.0 | 0.89 |
| Chloroform | 21,279 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,2-Dichloroethane | 21,279 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,279 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,279 | 1.00 | 0.430 g | 10.0 | 1.09 |
| Benzene | 21,279 | 1.00 | 0.530 | 25.0 | 2.22 |
| Trichloroethene | 21,279 | 1.00 | 0.330 | 10.0 | 1.42 |
| 1,4-Dioxane | 21,279 | 1.00 | 0.410 g | 10.0 | 1.15 |
| 1,1,2-Trichloroethane | 21,279 | 1.00 | 0.330 g | 10.0 | 1.42 |
| Toluene | 21,279 | 1.00 | 0.400 | 25.0 | 2.94 |
| 1,2-Dibromoethane (EDB) | 21,279 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,279 | 1.00 | 0.410 | 10.0 | 1.15 |
| 1,1,1,2-Tetrachloroethane | 21,279 | 1.00 | 0.410 g | 10.0 | 1.15 |
| Chlorobenzene | 21,279 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,279 | 1.00 | 0.850 | 25.0 | 1.38 |
| p & m-Xylene | 21,279 | 1.00 | 0.880 | 25.0 | 1.34 |
| o-Xylene | 21,279 | 1.00 | 0.880 | 25.0 | 1.34 |
| 1,2,3-Trichloropropane | 21,279 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,279 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3,5-Trimethylbenzene | 21,279 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,2,4-Trimethylbenzene | 21,279 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3-Dichlorobenzene | 21,279 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,279 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,279 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,279 | 1.00 | 0.390 g | 10.0 | 1.20 |
| Naphthalene | 21,279 | 1.00 | 0.800 g | 25.0 | 1.47 |
| 1,2,3-Trichlorobenzene | 21,279 | 1.00 | 0.390 g | 10.0 | 1.20 |
| 2-Methylnaphthalene | 21,279 | 1.00 | 0.760 g | 25.0 | 1.55 |
| TPH C4-C9 | 21,279 | 1.00 | 0.590 g | 5,000.0 | 398 |
| TPH C10-C15 | 21,279 | 1.00 | 0.690 g | 5,000.0 | 341 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-09 **Sample Name:** PSG-25C

| Analyte | t Sampling Time minutes | DF Dilution Factor | U Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,301 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,301 | 1.00 | 0.330 | 10.0 | 1.42 |
| Methylene Chloride | 21,301 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,301 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,301 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,301 | 1.00 | 0.500 g | 25.0 | 2.35 |
| 1,1-Dichloroethane | 21,301 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,301 | 1.00 | 0.530 | 10.0 | 0.89 |
| Chloroform | 21,301 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,2-Dichloroethane | 21,301 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,301 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,301 | 1.00 | 0.430 g | 10.0 | 1.09 |
| Benzene | 21,301 | 1.00 | 0.530 | 25.0 | 2.21 |
| Trichloroethene | 21,301 | 1.00 | 0.330 | 10.0 | 1.42 |
| 1,4-Dioxane | 21,301 | 1.00 | 0.410 g | 10.0 | 1.15 |
| 1,1,2-Trichloroethane | 21,301 | 1.00 | 0.330 g | 10.0 | 1.42 |
| Toluene | 21,301 | 1.00 | 0.400 | 25.0 | 2.93 |
| 1,2-Dibromoethane (EDB) | 21,301 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,301 | 1.00 | 0.410 | 10.0 | 1.15 |
| 1,1,1,2-Tetrachloroethane | 21,301 | 1.00 | 0.410 g | 10.0 | 1.15 |
| Chlorobenzene | 21,301 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,301 | 1.00 | 0.850 | 25.0 | 1.38 |
| p & m-Xylene | 21,301 | 1.00 | 0.880 | 25.0 | 1.33 |
| o-Xylene | 21,301 | 1.00 | 0.880 | 25.0 | 1.33 |
| 1,2,3-Trichloropropane | 21,301 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,301 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,3,5-Trimethylbenzene | 21,301 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,2,4-Trimethylbenzene | 21,301 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,3-Dichlorobenzene | 21,301 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,301 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,301 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,301 | 1.00 | 0.390 g | 10.0 | 1.20 |
| Naphthalene | 21,301 | 1.00 | 0.800 g | 25.0 | 1.47 |
| 1,2,3-Trichlorobenzene | 21,301 | 1.00 | 0.390 g | 10.0 | 1.20 |
| 2-Methylnaphthalene | 21,301 | 1.00 | 0.760 g | 25.0 | 1.54 |
| TPH C4-C9 | 21,301 | 1.00 | 0.590 g | 5,000.0 | 398 |
| TPH C10-C15 | 21,301 | 1.00 | 0.690 g | 5,000.0 | 340 |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Method Detection and Reporting Limit Calculations (Concentration)

### EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| **Lab ID:** 0007787-10 **Sample Name:** PSG-25D | | | | | |
| Vinyl Chloride | 21,320 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,320 | 1.00 | 0.330 | 10.0 | 1.42 |
| Methylene Chloride | 21,320 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,320 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,320 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,320 | 1.00 | 0.500 g | 25.0 | 2.35 |
| 1,1-Dichloroethane | 21,320 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,320 | 1.00 | 0.530 | 10.0 | 0.88 |
| Chloroform | 21,320 | 1.00 | 0.350 g | 10.0 | 1.34 |
| 1,2-Dichloroethane | 21,320 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,320 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,320 | 1.00 | 0.430 g | 10.0 | 1.09 |
| Benzene | 21,320 | 1.00 | 0.530 | 25.0 | 2.21 |
| Trichloroethene | 21,320 | 1.00 | 0.330 | 10.0 | 1.42 |
| 1,4-Dioxane | 21,320 | 1.00 | 0.410 g | 10.0 | 1.14 |
| 1,1,2-Trichloroethane | 21,320 | 1.00 | 0.330 g | 10.0 | 1.42 |
| Toluene | 21,320 | 1.00 | 0.400 | 25.0 | 2.93 |
| 1,2-Dibromoethane (EDB) | 21,320 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,320 | 1.00 | 0.410 | 10.0 | 1.14 |
| 1,1,1,2-Tetrachloroethane | 21,320 | 1.00 | 0.410 g | 10.0 | 1.14 |
| Chlorobenzene | 21,320 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,320 | 1.00 | 0.850 | 25.0 | 1.38 |
| p & m-Xylene | 21,320 | 1.00 | 0.880 | 25.0 | 1.33 |
| o-Xylene | 21,320 | 1.00 | 0.880 | 25.0 | 1.33 |
| 1,2,3-Trichloropropane | 21,320 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,320 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,3,5-Trimethylbenzene | 21,320 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,2,4-Trimethylbenzene | 21,320 | 1.00 | 0.830 g | 25.0 | 1.41 |
| 1,3-Dichlorobenzene | 21,320 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,320 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,320 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,320 | 1.00 | 0.390 g | 10.0 | 1.20 |
| Naphthalene | 21,320 | 1.00 | 0.800 g | 25.0 | 1.47 |
| 1,2,3-Trichlorobenzene | 21,320 | 1.00 | 0.390 g | 10.0 | 1.20 |
| 2-Methylnaphthalene | 21,320 | 1.00 | 0.760 g | 25.0 | 1.54 |
| TPH C4-C9 | 21,320 | 1.00 | 0.590 g | 5,000.0 | 397 |
| TPH C10-C15 | 21,320 | 1.00 | 0.690 g | 5,000.0 | 340 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-11 **Sample Name:** PSG-41A

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,603 | 1.00 | 0.810 | 10.0 | 0.57 |
| 1,1-Dichloroethene | 21,603 | 1.00 | 0.330 | 10.0 | 1.40 |
| Methylene Chloride | 21,603 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,603 | 1.00 | 0.890 g | 10.0 | 0.52 |
| trans-1,2-Dichloroethene | 21,603 | 1.00 | 0.440 | 10.0 | 1.05 |
| Methyl-t-butyl ether | 21,603 | 1.00 | 0.500 g | 25.0 | 2.31 |
| 1,1-Dichloroethane | 21,603 | 1.00 | 0.850 | 10.0 | 0.54 |
| cis-1,2-Dichloroethene | 21,603 | 1.00 | 0.530 | 10.0 | 0.87 |
| Chloroform | 21,603 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,2-Dichloroethane | 21,603 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,603 | 1.00 | 1.050 | 10.0 | 0.44 |
| Carbon Tetrachloride | 21,603 | 1.00 | 0.430 g | 10.0 | 1.08 |
| Benzene | 21,603 | 1.00 | 0.530 | 25.0 | 2.18 |
| Trichloroethene | 21,603 | 1.00 | 0.330 | 10.0 | 1.40 |
| 1,4-Dioxane | 21,603 | 1.00 | 0.410 g | 10.0 | 1.13 |
| 1,1,2-Trichloroethane | 21,603 | 1.00 | 0.330 g | 10.0 | 1.40 |
| Toluene | 21,603 | 1.00 | 0.400 | 25.0 | 2.89 |
| 1,2-Dibromoethane (EDB) | 21,603 | 1.00 | 0.390 g | 5.0 | 0.59 |
| Tetrachloroethene | 21,603 | 1.00 | 0.410 | 10.0 | 1.13 |
| 1,1,1,2-Tetrachloroethane | 21,603 | 1.00 | 0.410 g | 10.0 | 1.13 |
| Chlorobenzene | 21,603 | 1.00 | 0.850 g | 10.0 | 0.54 |
| Ethylbenzene | 21,603 | 1.00 | 0.850 | 25.0 | 1.36 |
| p & m-Xylene | 21,603 | 1.00 | 0.880 | 25.0 | 1.32 |
| o-Xylene | 21,603 | 1.00 | 0.880 | 25.0 | 1.32 |
| 1,2,3-Trichloropropane | 21,603 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,603 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,3,5-Trimethylbenzene | 21,603 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,2,4-Trimethylbenzene | 21,603 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,3-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,603 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,603 | 1.00 | 0.390 g | 10.0 | 1.19 |
| Naphthalene | 21,603 | 1.00 | 0.800 g | 25.0 | 1.45 |
| 1,2,3-Trichlorobenzene | 21,603 | 1.00 | 0.390 g | 10.0 | 1.19 |
| 2-Methylnaphthalene | 21,603 | 1.00 | 0.760 g | 25.0 | 1.52 |
| TPH C4-C9 | 21,603 | 1.00 | 0.590 g | 5,000.0 | 392 |
| TPH C10-C15 | 21,603 | 1.00 | 0.690 g | 5,000.0 | 335 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| **Lab ID:** 0007787-12 **Sample Name:** PSG-41B | | | | | |
| Vinyl Chloride | 21,599 | 1.00 | 0.810 | 10.0 | 0.57 |
| 1,1-Dichloroethene | 21,599 | 1.00 | 0.330 | 10.0 | 1.40 |
| Methylene Chloride | 21,599 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,599 | 1.00 | 0.890 g | 10.0 | 0.52 |
| trans-1,2-Dichloroethene | 21,599 | 1.00 | 0.440 | 10.0 | 1.05 |
| Methyl-t-butyl ether | 21,599 | 1.00 | 0.500 g | 25.0 | 2.31 |
| 1,1-Dichloroethane | 21,599 | 1.00 | 0.850 | 10.0 | 0.54 |
| cis-1,2-Dichloroethene | 21,599 | 1.00 | 0.530 | 10.0 | 0.87 |
| Chloroform | 21,599 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,2-Dichloroethane | 21,599 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,599 | 1.00 | 1.050 | 10.0 | 0.44 |
| Carbon Tetrachloride | 21,599 | 1.00 | 0.430 g | 10.0 | 1.08 |
| Benzene | 21,599 | 1.00 | 0.530 | 25.0 | 2.18 |
| Trichloroethene | 21,599 | 1.00 | 0.330 | 10.0 | 1.40 |
| 1,4-Dioxane | 21,599 | 1.00 | 0.410 g | 10.0 | 1.13 |
| 1,1,2-Trichloroethane | 21,599 | 1.00 | 0.330 g | 10.0 | 1.40 |
| Toluene | 21,599 | 1.00 | 0.400 | 25.0 | 2.89 |
| 1,2-Dibromoethane (EDB) | 21,599 | 1.00 | 0.390 g | 5.0 | 0.59 |
| Tetrachloroethene | 21,599 | 1.00 | 0.410 | 10.0 | 1.13 |
| 1,1,1,2-Tetrachloroethane | 21,599 | 1.00 | 0.410 g | 10.0 | 1.13 |
| Chlorobenzene | 21,599 | 1.00 | 0.850 g | 10.0 | 0.54 |
| Ethylbenzene | 21,599 | 1.00 | 0.850 | 25.0 | 1.36 |
| p & m-Xylene | 21,599 | 1.00 | 0.880 | 25.0 | 1.32 |
| o-Xylene | 21,599 | 1.00 | 0.880 | 25.0 | 1.32 |
| 1,2,3-Trichloropropane | 21,599 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,599 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,3,5-Trimethylbenzene | 21,599 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,2,4-Trimethylbenzene | 21,599 | 1.00 | 0.830 g | 25.0 | 1.39 |
| 1,3-Dichlorobenzene | 21,599 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,599 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,599 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,599 | 1.00 | 0.390 g | 10.0 | 1.19 |
| Naphthalene | 21,599 | 1.00 | 0.800 g | 25.0 | 1.45 |
| 1,2,3-Trichlorobenzene | 21,599 | 1.00 | 0.390 g | 10.0 | 1.19 |
| 2-Methylnaphthalene | 21,599 | 1.00 | 0.760 g | 25.0 | 1.52 |
| TPH C4-C9 | 21,599 | 1.00 | 0.590 g | 5,000.0 | 392 |
| TPH C10-C15 | 21,599 | 1.00 | 0.690 g | 5,000.0 | 335 |

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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| **Lab ID:** 0007787-13 **Sample Name:** PSG-41C | | | | | |
| Vinyl Chloride | 21,578 | 1.00 | 0.810 | 10.0 | 0.57 |
| 1,1-Dichloroethene | 21,578 | 1.00 | 0.330 | 10.0 | 1.40 |
| Methylene Chloride | 21,578 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,578 | 1.00 | 0.890 g | 10.0 | 0.52 |
| trans-1,2-Dichloroethene | 21,578 | 1.00 | 0.440 | 10.0 | 1.05 |
| Methyl-t-butyl ether | 21,578 | 1.00 | 0.500 g | 25.0 | 2.32 |
| 1,1-Dichloroethane | 21,578 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,578 | 1.00 | 0.530 | 10.0 | 0.87 |
| Chloroform | 21,578 | 1.00 | 0.350 g | 10.0 | 1.32 |
| 1,2-Dichloroethane | 21,578 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,578 | 1.00 | 1.050 | 10.0 | 0.44 |
| Carbon Tetrachloride | 21,578 | 1.00 | 0.430 g | 10.0 | 1.08 |
| Benzene | 21,578 | 1.00 | 0.530 | 25.0 | 2.19 |
| Trichloroethene | 21,578 | 1.00 | 0.330 | 10.0 | 1.40 |
| 1,4-Dioxane | 21,578 | 1.00 | 0.410 g | 10.0 | 1.13 |
| 1,1,2-Trichloroethane | 21,578 | 1.00 | 0.330 g | 10.0 | 1.40 |
| Toluene | 21,578 | 1.00 | 0.400 | 25.0 | 2.90 |
| 1,2-Dibromoethane (EDB) | 21,578 | 1.00 | 0.390 g | 5.0 | 0.59 |
| Tetrachloroethene | 21,578 | 1.00 | 0.410 | 10.0 | 1.13 |
| 1,1,1,2-Tetrachloroethane | 21,578 | 1.00 | 0.410 g | 10.0 | 1.13 |
| Chlorobenzene | 21,578 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,578 | 1.00 | 0.850 | 25.0 | 1.36 |
| p & m-Xylene | 21,578 | 1.00 | 0.880 | 25.0 | 1.32 |
| o-Xylene | 21,578 | 1.00 | 0.880 | 25.0 | 1.32 |
| 1,2,3-Trichloropropane | 21,578 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,578 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3,5-Trimethylbenzene | 21,578 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,2,4-Trimethylbenzene | 21,578 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3-Dichlorobenzene | 21,578 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,578 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,578 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,578 | 1.00 | 0.390 g | 10.0 | 1.19 |
| Naphthalene | 21,578 | 1.00 | 0.800 g | 25.0 | 1.45 |
| 1,2,3-Trichlorobenzene | 21,578 | 1.00 | 0.390 g | 10.0 | 1.19 |
| 2-Methylnaphthalene | 21,578 | 1.00 | 0.760 g | 25.0 | 1.52 |
| TPH C4-C9 | 21,578 | 1.00 | 0.590 g | 5,000.0 | 393 |
| TPH C10-C15 | 21,578 | 1.00 | 0.690 g | 5,000.0 | 336 |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Method Detection and Reporting Limit Calculations (Concentration)

### EPA 8260C

**Lab ID:** 0007787-14 **Sample Name:** PSG-41D

| Analyte | t Sampling Time minutes | DF Dilution Factor | U Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,560 | 1.00 | 0.810 | 10.0 | 0.57 |
| 1,1-Dichloroethene | 21,560 | 1.00 | 0.330 | 10.0 | 1.41 |
| Methylene Chloride | 21,560 | 1.00 | 0.350 g | 10.0 | 1.33 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,560 | 1.00 | 0.890 g | 10.0 | 0.52 |
| trans-1,2-Dichloroethene | 21,560 | 1.00 | 0.440 | 10.0 | 1.05 |
| Methyl-t-butyl ether | 21,560 | 1.00 | 0.500 g | 25.0 | 2.32 |
| 1,1-Dichloroethane | 21,560 | 1.00 | 0.850 | 10.0 | 0.55 |
| cis-1,2-Dichloroethene | 21,560 | 1.00 | 0.530 | 10.0 | 0.88 |
| Chloroform | 21,560 | 1.00 | 0.350 g | 10.0 | 1.33 |
| 1,2-Dichloroethane | 21,560 | 1.00 | 0.560 | 10.0 | 0.83 |
| 1,1,1-Trichloroethane | 21,560 | 1.00 | 1.050 | 10.0 | 0.44 |
| Carbon Tetrachloride | 21,560 | 1.00 | 0.430 g | 10.0 | 1.08 |
| Benzene | 21,560 | 1.00 | 0.530 | 25.0 | 2.19 |
| Trichloroethene | 21,560 | 19.05 | 0.330 | 10.0 | 26.8 |
| 1,4-Dioxane | 21,560 | 1.00 | 0.410 g | 10.0 | 1.13 |
| 1,1,2-Trichloroethane | 21,560 | 1.00 | 0.330 g | 10.0 | 1.41 |
| Toluene | 21,560 | 1.00 | 0.400 | 25.0 | 2.90 |
| 1,2-Dibromoethane (EDB) | 21,560 | 1.00 | 0.390 g | 5.0 | 0.59 |
| Tetrachloroethene | 21,560 | 1.00 | 0.410 | 10.0 | 1.13 |
| 1,1,1,2-Tetrachloroethane | 21,560 | 1.00 | 0.410 g | 10.0 | 1.13 |
| Chlorobenzene | 21,560 | 1.00 | 0.850 g | 10.0 | 0.55 |
| Ethylbenzene | 21,560 | 1.00 | 0.850 | 25.0 | 1.36 |
| p & m-Xylene | 21,560 | 1.00 | 0.880 | 25.0 | 1.32 |
| o-Xylene | 21,560 | 1.00 | 0.880 | 25.0 | 1.32 |
| 1,2,3-Trichloropropane | 21,560 | 1.00 | 0.750 g | 10.0 | 0.62 |
| Isopropylbenzene | 21,560 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3,5-Trimethylbenzene | 21,560 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,2,4-Trimethylbenzene | 21,560 | 1.00 | 0.830 g | 25.0 | 1.40 |
| 1,3-Dichlorobenzene | 21,560 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,4-Dichlorobenzene | 21,560 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2-Dichlorobenzene | 21,560 | 1.00 | 0.750 g | 10.0 | 0.62 |
| 1,2,4-Trichlorobenzene | 21,560 | 1.00 | 0.390 g | 10.0 | 1.19 |
| Naphthalene | 21,560 | 1.00 | 0.800 g | 25.0 | 1.45 |
| 1,2,3-Trichlorobenzene | 21,560 | 1.00 | 0.390 g | 10.0 | 1.19 |
| 2-Methylnaphthalene | 21,560 | 1.00 | 0.760 g | 25.0 | 1.53 |
| TPH C4-C9 | 21,560 | 1.00 | 0.590 g | 5,000.0 | 393 |
| TPH C10-C15 | 21,560 | 1.00 | 0.690 g | 5,000.0 | 336 |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Method Detection and Reporting Limit Calculations (Concentration)

### EPA 8260C

**Lab ID:** 0007787-15 **Sample Name:** PSG-62A

| Analyte | t Sampling Time minutes | DF Dilution Factor | U Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,193 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,193 | 1.00 | 0.330 | 10.0 | 1.43 |
| Methylene Chloride | 21,193 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,193 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,193 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,193 | 1.00 | 0.500 g | 25.0 | 2.36 |
| 1,1-Dichloroethane | 21,193 | 1.00 | 0.850 | 10.0 | 0.56 |
| cis-1,2-Dichloroethene | 21,193 | 1.00 | 0.530 | 10.0 | 0.89 |
| Chloroform | 21,193 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,2-Dichloroethane | 21,193 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,193 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,193 | 1.00 | 0.430 g | 10.0 | 1.10 |
| Benzene | 21,193 | 1.00 | 0.530 | 25.0 | 2.23 |
| Trichloroethene | 21,193 | 1.00 | 0.330 | 10.0 | 1.43 |
| 1,4-Dioxane | 21,193 | 1.00 | 0.410 g | 10.0 | 1.15 |
| 1,1,2-Trichloroethane | 21,193 | 1.00 | 0.330 g | 10.0 | 1.43 |
| Toluene | 21,193 | 1.00 | 0.400 | 25.0 | 2.95 |
| 1,2-Dibromoethane (EDB) | 21,193 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,193 | 1.00 | 0.410 | 10.0 | 1.15 |
| 1,1,1,2-Tetrachloroethane | 21,193 | 1.00 | 0.410 g | 10.0 | 1.15 |
| Chlorobenzene | 21,193 | 1.00 | 0.850 g | 10.0 | 0.56 |
| Ethylbenzene | 21,193 | 1.00 | 0.850 | 25.0 | 1.39 |
| p & m-Xylene | 21,193 | 1.00 | 0.880 | 25.0 | 1.34 |
| o-Xylene | 21,193 | 1.00 | 0.880 | 25.0 | 1.34 |
| 1,2,3-Trichloropropane | 21,193 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,193 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3,5-Trimethylbenzene | 21,193 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,2,4-Trimethylbenzene | 21,193 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,193 | 1.00 | 0.390 g | 10.0 | 1.21 |
| Naphthalene | 21,193 | 342.15 | 0.800 g | 25.0 | 505 |
| 1,2,3-Trichlorobenzene | 21,193 | 1.00 | 0.390 g | 10.0 | 1.21 |
| 2-Methylnaphthalene | 21,193 | 19.05 | 0.760 g | 25.0 | 29.6 |
| TPH C4-C9 | 21,193 | 1.00 | 0.590 g | 5,000.0 | 400 |
| TPH C10-C15 | 21,193 | 1.00 | 0.690 g | 5,000.0 | 342 |

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# CERTIFICATE OF ANALYSIS

| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Method Detection and Reporting Limit Calculations (Concentration)

### EPA 8260C

**Lab ID:** 0007787-16 **Sample Name:** DUP-02

| Analyte | t Sampling Time minutes | DF Dilution Factor | U Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,193 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,193 | 1.00 | 0.330 | 10.0 | 1.43 |
| Methylene Chloride | 21,193 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,193 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,193 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,193 | 1.00 | 0.500 g | 25.0 | 2.36 |
| 1,1-Dichloroethane | 21,193 | 1.00 | 0.850 | 10.0 | 0.56 |
| cis-1,2-Dichloroethene | 21,193 | 1.00 | 0.530 | 10.0 | 0.89 |
| Chloroform | 21,193 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,2-Dichloroethane | 21,193 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,193 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,193 | 1.00 | 0.430 g | 10.0 | 1.10 |
| Benzene | 21,193 | 1.00 | 0.530 | 25.0 | 2.23 |
| Trichloroethene | 21,193 | 1.00 | 0.330 | 10.0 | 1.43 |
| 1,4-Dioxane | 21,193 | 1.00 | 0.410 g | 10.0 | 1.15 |
| 1,1,2-Trichloroethane | 21,193 | 1.00 | 0.330 g | 10.0 | 1.43 |
| Toluene | 21,193 | 1.00 | 0.400 | 25.0 | 2.95 |
| 1,2-Dibromoethane (EDB) | 21,193 | 1.00 | 0.390 g | 5.0 | 0.60 |
| Tetrachloroethene | 21,193 | 1.00 | 0.410 | 10.0 | 1.15 |
| 1,1,1,2-Tetrachloroethane | 21,193 | 1.00 | 0.410 g | 10.0 | 1.15 |
| Chlorobenzene | 21,193 | 1.00 | 0.850 g | 10.0 | 0.56 |
| Ethylbenzene | 21,193 | 1.00 | 0.850 | 25.0 | 1.39 |
| p & m-Xylene | 21,193 | 1.00 | 0.880 | 25.0 | 1.34 |
| o-Xylene | 21,193 | 1.00 | 0.880 | 25.0 | 1.34 |
| 1,2,3-Trichloropropane | 21,193 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,193 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3,5-Trimethylbenzene | 21,193 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,2,4-Trimethylbenzene | 21,193 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,193 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,193 | 1.00 | 0.390 g | 10.0 | 1.21 |
| Naphthalene | 21,193 | 342.15 | 0.800 g | 25.0 | 505 |
| 1,2,3-Trichlorobenzene | 21,193 | 1.00 | 0.390 g | 10.0 | 1.21 |
| 2-Methylnaphthalene | 21,193 | 19.05 | 0.760 g | 25.0 | 29.6 |
| TPH C4-C9 | 21,193 | 1.00 | 0.590 g | 5,000.0 | 400 |
| TPH C10-C15 | 21,193 | 1.00 | 0.690 g | 5,000.0 | 342 |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-17 **Sample Name:** PSG-62B

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | U<br>Uptake<br>Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,186 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,186 | 1.00 | 0.330 | 10.0 | 1.43 |
| Methylene Chloride | 21,186 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,186 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,186 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,186 | 1.00 | 0.500 g | 25.0 | 2.36 |
| 1,1-Dichloroethane | 21,186 | 1.00 | 0.850 | 10.0 | 0.56 |
| cis-1,2-Dichloroethene | 21,186 | 1.00 | 0.530 | 10.0 | 0.89 |
| Chloroform | 21,186 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,2-Dichloroethane | 21,186 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,186 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,186 | 1.00 | 0.430 g | 10.0 | 1.10 |
| Benzene | 21,186 | 1.00 | 0.530 | 25.0 | 2.23 |
| Trichloroethene | 21,186 | 1.00 | 0.330 | 10.0 | 1.43 |
| 1,4-Dioxane | 21,186 | 1.00 | 0.410 g | 10.0 | 1.15 |
| 1,1,2-Trichloroethane | 21,186 | 1.00 | 0.330 g | 10.0 | 1.43 |
| Toluene | 21,186 | 1.00 | 0.400 | 25.0 | 2.95 |
| 1,2-Dibromoethane (EDB) | 21,186 | 1.00 | 0.390 g | 5.0 | 0.61 |
| Tetrachloroethene | 21,186 | 1.00 | 0.410 | 10.0 | 1.15 |
| 1,1,1,2-Tetrachloroethane | 21,186 | 1.00 | 0.410 g | 10.0 | 1.15 |
| Chlorobenzene | 21,186 | 1.00 | 0.850 g | 10.0 | 0.56 |
| Ethylbenzene | 21,186 | 1.00 | 0.850 | 25.0 | 1.39 |
| p & m-Xylene | 21,186 | 1.00 | 0.880 | 25.0 | 1.34 |
| o-Xylene | 21,186 | 1.00 | 0.880 | 25.0 | 1.34 |
| 1,2,3-Trichloropropane | 21,186 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,186 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3,5-Trimethylbenzene | 21,186 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,2,4-Trimethylbenzene | 21,186 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3-Dichlorobenzene | 21,186 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,186 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,186 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,186 | 1.00 | 0.390 g | 10.0 | 1.21 |
| Naphthalene | 21,186 | 1.00 | 0.800 g | 25.0 | 1.48 |
| 1,2,3-Trichlorobenzene | 21,186 | 1.00 | 0.390 g | 10.0 | 1.21 |
| 2-Methylnaphthalene | 21,186 | 1.00 | 0.760 g | 25.0 | 1.55 |
| TPH C4-C9 | 21,186 | 1.00 | 0.590 g | 5,000.0 | 400 |
| TPH C10-C15 | 21,186 | 1.00 | 0.690 g | 5,000.0 | 342 |

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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution Factor | U<br>Uptake Rate | M<br>Initial LOQ<br>ng | C<br>Calculated LOQ<br>µg/m³ |
|---|---|---|---|---|---|
| **Lab ID:** 0007787-18 **Sample Name:** PSG-62C | | | | | |
| Vinyl Chloride | 21,168 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,168 | 1.00 | 0.330 | 10.0 | 1.43 |
| Methylene Chloride | 21,168 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,168 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,168 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,168 | 1.00 | 0.500 g | 25.0 | 2.36 |
| 1,1-Dichloroethane | 21,168 | 1.00 | 0.850 | 10.0 | 0.56 |
| cis-1,2-Dichloroethene | 21,168 | 1.00 | 0.530 | 10.0 | 0.89 |
| Chloroform | 21,168 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,2-Dichloroethane | 21,168 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,168 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,168 | 1.00 | 0.430 g | 10.0 | 1.10 |
| Benzene | 21,168 | 1.00 | 0.530 | 25.0 | 2.23 |
| Trichloroethene | 21,168 | 1.00 | 0.330 | 10.0 | 1.43 |
| 1,4-Dioxane | 21,168 | 1.00 | 0.410 g | 10.0 | 1.15 |
| 1,1,2-Trichloroethane | 21,168 | 1.00 | 0.330 g | 10.0 | 1.43 |
| Toluene | 21,168 | 1.00 | 0.400 | 25.0 | 2.95 |
| 1,2-Dibromoethane (EDB) | 21,168 | 1.00 | 0.390 g | 5.0 | 0.61 |
| Tetrachloroethene | 21,168 | 1.00 | 0.410 | 10.0 | 1.15 |
| 1,1,1,2-Tetrachloroethane | 21,168 | 1.00 | 0.410 g | 10.0 | 1.15 |
| Chlorobenzene | 21,168 | 1.00 | 0.850 g | 10.0 | 0.56 |
| Ethylbenzene | 21,168 | 1.00 | 0.850 | 25.0 | 1.39 |
| p & m-Xylene | 21,168 | 1.00 | 0.880 | 25.0 | 1.34 |
| o-Xylene | 21,168 | 1.00 | 0.880 | 25.0 | 1.34 |
| 1,2,3-Trichloropropane | 21,168 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,168 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3,5-Trimethylbenzene | 21,168 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,2,4-Trimethylbenzene | 21,168 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,168 | 1.00 | 0.390 g | 10.0 | 1.21 |
| Naphthalene | 21,168 | 1.00 | 0.800 g | 25.0 | 1.48 |
| 1,2,3-Trichlorobenzene | 21,168 | 1.00 | 0.390 g | 10.0 | 1.21 |
| 2-Methylnaphthalene | 21,168 | 1.00 | 0.760 g | 25.0 | 1.55 |
| TPH C4-C9 | 21,168 | 1.00 | 0.590 g | 5,000.0 | 400 |
| TPH C10-C15 | 21,168 | 1.00 | 0.690 g | 5,000.0 | 342 |

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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# Method Detection and Reporting Limit Calculations (Concentration)

## EPA 8260C

**Lab ID:** 0007787-19 **Sample Name:** PSG-62D

| Analyte | t Sampling Time minutes | DF Dilution Factor | U Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m³ |
|---|---|---|---|---|---|
| Vinyl Chloride | 21,168 | 1.00 | 0.810 | 10.0 | 0.58 |
| 1,1-Dichloroethene | 21,168 | 1.00 | 0.330 | 10.0 | 1.43 |
| Methylene Chloride | 21,168 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,1,2-Trichlorotrifluoroethane (Fr.113) | 21,168 | 1.00 | 0.890 g | 10.0 | 0.53 |
| trans-1,2-Dichloroethene | 21,168 | 1.00 | 0.440 | 10.0 | 1.07 |
| Methyl-t-butyl ether | 21,168 | 1.00 | 0.500 g | 25.0 | 2.36 |
| 1,1-Dichloroethane | 21,168 | 1.00 | 0.850 | 10.0 | 0.56 |
| cis-1,2-Dichloroethene | 21,168 | 1.00 | 0.530 | 10.0 | 0.89 |
| Chloroform | 21,168 | 1.00 | 0.350 g | 10.0 | 1.35 |
| 1,2-Dichloroethane | 21,168 | 1.00 | 0.560 | 10.0 | 0.84 |
| 1,1,1-Trichloroethane | 21,168 | 1.00 | 1.050 | 10.0 | 0.45 |
| Carbon Tetrachloride | 21,168 | 1.00 | 0.430 g | 10.0 | 1.10 |
| Benzene | 21,168 | 1.00 | 0.530 | 25.0 | 2.23 |
| Trichloroethene | 21,168 | 19.05 | 0.330 | 10.0 | 27.3 |
| 1,4-Dioxane | 21,168 | 1.00 | 0.410 g | 10.0 | 1.15 |
| 1,1,2-Trichloroethane | 21,168 | 1.00 | 0.330 g | 10.0 | 1.43 |
| Toluene | 21,168 | 1.00 | 0.400 | 25.0 | 2.95 |
| 1,2-Dibromoethane (EDB) | 21,168 | 1.00 | 0.390 g | 5.0 | 0.61 |
| Tetrachloroethene | 21,168 | 1.00 | 0.410 | 10.0 | 1.15 |
| 1,1,1,2-Tetrachloroethane | 21,168 | 1.00 | 0.410 g | 10.0 | 1.15 |
| Chlorobenzene | 21,168 | 1.00 | 0.850 g | 10.0 | 0.56 |
| Ethylbenzene | 21,168 | 1.00 | 0.850 | 25.0 | 1.39 |
| p & m-Xylene | 21,168 | 1.00 | 0.880 | 25.0 | 1.34 |
| o-Xylene | 21,168 | 1.00 | 0.880 | 25.0 | 1.34 |
| 1,2,3-Trichloropropane | 21,168 | 1.00 | 0.750 g | 10.0 | 0.63 |
| Isopropylbenzene | 21,168 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3,5-Trimethylbenzene | 21,168 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,2,4-Trimethylbenzene | 21,168 | 1.00 | 0.830 g | 25.0 | 1.42 |
| 1,3-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,4-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2-Dichlorobenzene | 21,168 | 1.00 | 0.750 g | 10.0 | 0.63 |
| 1,2,4-Trichlorobenzene | 21,168 | 1.00 | 0.390 g | 10.0 | 1.21 |
| Naphthalene | 21,168 | 1.00 | 0.800 g | 25.0 | 1.48 |
| 1,2,3-Trichlorobenzene | 21,168 | 1.00 | 0.390 g | 10.0 | 1.21 |
| 2-Methylnaphthalene | 21,168 | 1.00 | 0.760 g | 25.0 | 1.55 |
| TPH C4-C9 | 21,168 | 1.00 | 0.590 g | 5,000.0 | 400 |
| TPH C10-C15 | 21,168 | 1.00 | 0.690 g | 5,000.0 | 342 |

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| | | |
|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## *Laboratory Certification List*

| Certification ID | Certification No. | Description | Expires | Project Required |
|---|---|---|---|---|
| Alaska CS-LAP | 19-002 | Alaska Department of Environmental Conservation | 12/30/2024 | |
| Colorado | MD010912023 | Colorado Division of Oil and Public Safety | 11/23/2024 | |
| DoD-ELAP | 72690/L22-563 | United States Department of Defense Environmental Laboratory Accreditation | 11/30/2024 | |
| ISO/IEC 17025:2017 | 72690/L22-563 | General Requirements for the Competence of Testing and Calibration Laboratories | 11/30/2024 | |
| NEFAP | 72690/L22-564 | TNI National Environmental Field Activities Program (NEFAP) | 11/30/2024 | |
| NY-NELAP | 12097 | New York Department of Health | 04/01/2025 | |
| Utah-NELAP | MD010912024-15 | Utah Department of Health | 12/31/2024 | |
| Washington State | C1085 | The State of Washington Department of Ecology | 05/23/2025 | |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

## Qualifiers/Notes and Definitions

***General Definitions:***

| | |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| NA | Not Applicable |
| Q | Qualifier |
| RPD | Relative Percent Difference |
| RT | Retention Times in Minutes |
| RRT | Evaluation of Relative Retention Times in RRT Units (qualified if outside $\pm$0.06 control limits) |
| VISL | EPA Vapor Intrusion Screening Level |
| 3σ | Uncertainty |
| ∉ | Compound not on scope of accreditation |
| + | values are outside method/contract required QC limits |
| ∅ | Compound not on scope of accreditation and analyzed with a one-point calibration |

***Sample/Sample Receipt Qualifiers and Notes:***

| | |
|---|---|
| D | Dilution required to report within calibration Limits. |
| S4 | Matrix interference caused surrogate recovery outside control limits. |

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|---|---|---|
| **Roux Associates, Inc.** | **Site Name:** Former AB&I Foundry | **Beacon Proposal:** 240216R01 |
| 555 12th Street, Suite 250 | **Site Location:** Oakland, CA | **Lab Work Order:** 0007787 |
| Oakland, CA 94607 | **Project Manager:** Josh Osborne | **Reported:** 06/14/2024 |

# *Sample Management Records*

BEACON ENVIRONMENTAL
526 Underwood Lane
Bel Air, Maryland 21014 USA
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or email help@beacon-usa.com

# PASSIVE SOIL GAS SAMPLES | CHAIN-OF-CUSTODY

| Project Information | | Client Information | |
|---|---|---|---|
| Site Name: AB&I | | Company Name: Roux Associates Inc. | Project Manager: Josh Osborne |
| | | Office Location: Oakland, CA | Client PO: — |
| Site Location: 7825 San Leandro St. Oakland, CA | | Submitted by: Dylan Bailey | Turn around time (check one): [X] Normal [ ] Rush (specify) ____ days |
| | | Email: josborne@rouxinc.com, dbailey@rouxinc.com | |

| Field Sample ID | Start Date | Start Time | Stop Date | Stop Time | Sampling Hole Depth [ ] cm [X] inches | Surface Type (Soil, Asphalt, Concrete, Gravel) | Optional Information (Location Description, Sample Condition, PID / FID Readings, etc) |
|---|---|---|---|---|---|---|---|
| PSG-41A | 5/20/24 | 0820 | 6/4/24 | 0823 | 36 | soil | |
| PSG-41B | 5/20/24 | 0836 | 6/4/24 | 0835 | 42 | Concrete | |
| PSG-41C | 5/20/24 | 0848 | 6/4/24 | 0826 | 42 | concrete | |
| PSG-41D | 5/20/24 | 0912 | 6/4/24 | 0832 | 42 | Concrete | |
| PSG-10A | 5/20/24 | 1048 | 6/4/24 | 0912 | 42 | Concrete | Run PSG-10A duplicate as DUP-01 |
| PSG-10B | 5/20/24 | 1253 | 6/4/24 | 0914 | 42 | Concrete | |
| PSG-10C | 5/20/24 | 0942 | 6/4/24 | 0918 | 42 | Concrete | |
| PSG-10D | 5/20/24 | 1250 | 6/4/24 | 0916 | 42 | Concrete | |
| PSG-25A | 5/20/24 | 1435 | 6/4/24 | 0905 | 44 | Concrete | |
| PSG-25B | 5/20/24 | 1424 | 6/4/24 | 0903 | 44 | Concrete | seal partially exposed |
| PSG-25C | 5/20/24 | 1406 | 6/4/24 | 0907 | 44 | Concrete | |
| PSG-25D | 5/20/24 | 1340 | 6/4/24 | 0900 | 44 | concrete | |
| PSG-62A | 5/20/24 | 1540 | 6/4/24 | 0853 | 44 | Concrete | Run PSG-62A duplicate as DUP-02 |
| PSG-62B | 5/20/24 | 1544 | 6/4/24 | 0850 | 44 | Concrete | |
| PSG-62C | 5/20/24 | 1556 | 6/4/24 | 0844 | 44 | Concrete | |

Special Instructions: Analyze all samples for EPA Method 8260C

| | | | |
|---|---|---|---|
| Relinquished by (signature): Dylan M | Date / Time: 6/4/24 1520 | Received by (signature): Austin Anderson | Date / Time: 6/6/24 11:38 |
| Relinquished by (signature): | Date / Time: | Received by (signature): | Date / Time: 8260C |
| For Lab Use Only | Beacon Job No: 7787 | Beacon Proposal: 240216R01 | Analytical Method: |
| Courier Name: Fedex | Shipment Condition: good | Custody Seal Intact: [✓] Yes [ ] No [ ] n/a | Custody Seal No: 6047356 |

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# PASSIVE SOIL GAS SAMPLES | CHAIN-OF-CUSTODY

| Project Information | | Client Information | |
|---|---|---|---|
| Site Name: AB&I | | Company Name: Roux Associates Inc. | Project Manager: Josh Osborne |
| | | Office Location: Oakland, CA | Client PO: — |
| Site Location: 7825 San Leandro St. Oakland, CA | | Submitted by: Page 1 | Turn around time (check one): |
| | | Email: | ☒ Normal ☐ Rush (specify) ____ days |

| Field Sample ID | Start Date | Start Time | Stop Date | Stop Time | Sampling Hole Depth ☐ cm ☒ inches | Surface Type (Soil, Asphalt, Concrete, Gravel) | Optional Information (Location Description, Sample Condition, PID / FID Readings, etc) |
|---|---|---|---|---|---|---|---|
| PSG-620 | 5/20/24 | 1559 | 6/4/24 | 0847 | 44 | Concrete | |
| Trip-1 | — | — | — | — | — | — | |
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Special Instructions: Analyze all samples for EPA Method 8260C

| For Lab Use Only | Beacon Job No: 7787 | Beacon Proposal: 240216R01 | Analytical Method: 8260C |
|---|---|---|---|

| | |
|---|---|
| Date: | September 16, 2024 |
| Project Name: | American Brass and Iron (AB&I) Foundry |
| Laboratory: | Enthalpy Analytical |
| Lab Job Number: | 509527 |
| Sample Media: | Active Soil Vapor |
| Samples: | All sample IDs in the report |

Data review was performed for the data package generated by Enthalpy Analytical for samples collected at American Brass and Iron (AB&I) Foundry at 7825 San Leandro Street in Oakland, CA in April 2024, associated with laboratory job number 509527.

The data validation was done in accordance with Department of Defense (DOD)[1,2] and United States Environmental Protection Agency (USEPA)[3,4] validation documents and included the following items:

- Data deliverable completeness
- Laboratory case narratives
- Chain of custody documentation
- Holding times
- Limit of quantification
- Control Samples
    - Blank spiked and blank spiked duplicate
    - Method Blanks
    - Field duplicate samples

The items above that have issues potentially affecting data usability are discussed in this report.

## Data Deliverable Completeness

Complete deliverable data packages were provided by the laboratory, which included reporting forms necessary to validate the reported analytical results. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative. The laboratory submitted all required deliverables. Sample results and related quality control data were received. Electronic data were verified against the laboratory report; no data deliverable completeness issues were identified.

## Laboratory Case Narratives

The laboratory case narrative included in the report detail how the issue of high concentrations were addressed. Specifically, the narrative explains the corrective actions taken, including the appropriate dilution steps for samples and considerations for the limit of quantification (LOQ). All necessary adjustments were accounted for to ensure accurate results. The narrative also confirms that all

1 USDOD, Environmental Data Quality Workgroup. *Data Validation Guidelines Module 5: Data Validation Procedure for Metals by ICP-MS.* 11/09/2022.
2 *USDOD, Environmental Data Quality Workgroup. Data Validation Guidelines Module 4: Data Validation Procedure for Organic Analysis by GC*
3 USEPA. *National Functional Guidelines for Inorganic Superfund Method Data Review.* EPA 542-R-20-006, November, 2020.
4 USEPA. *National Functional Guidelines for Organic Superfund Method Data Review.* EPA 540-R-20-005.

samples were delivered to the laboratory at the correct temperature, in the proper container, and with the appropriate preservatives.

**Chain of Custody Documentation**

Sample identification (ID) numbers and requested analyses listed on the chain-of-custody record are consistent with the sample ID and analyses reported in the analytical laboratory reports.

**Sample Receipt/Holding Times**

All samples were received and analyzed within the holding times for the requested analytical methods.

**Limits of Quantitation**

All LOQs are below the project environmental screening levels and all analytes are detectable at concentrations lower than the screening level.

**Quality Control Samples**

All the blanks had no contamination. The relative percent differences (RPDs) for the blanks spike (BS) and BS duplicate (BSD) were within the recommended limits. The spike recovery rates of all tested samples were within the recommended limits.

The table below shows the PRDs for the field primary and its respective duplicate collected from sample location SVP-10-5. The PRD values presented below indicate that the variability of select compounds in active soil vapor was higher than 20%. Concentrations of benzene-hexane, and total petroleum hydrocarbons (TPH) as gasoline have an RPD greater than 20%, their respective concentrations are greater than five times the LOQ, and their absolute differences between primary and duplicate samples are greater than the LOQ. For these reasons, these results should be flagged as estimated (J).

| Analyte | SVP-10-5 | SVP-DUP-01 | RPD (%) | LOQ |
|---|---|---|---|---|
| Benzene | <2.7 | 10 | 115 | 2.7 |
| n-Hexane | 3.2 | 34 | 165.6 | 3.0 |
| TPH Gasoline | 1,300 | 1,800 | 32.3 | 60 |

Notes:
Yellow highlight = RPD and LOQ values exceed acceptable limits. Values should be considered estimates.
All concentrations in micrograms per cubic meter.
% = percent
LOQ = Limit of quantitation
RPD = Relative percent difference
TPH = Total petroleum hydrocarbon

The table below shows the RPDs for the field primary sample and its respective duplicate collected from sample location PSG-10A. The RPD values presented below indicate that the variability of benzene in passive soil vapor was higher than 20%. Because the concentrations were higher than the LOQ but lower than five times the LOQ and the absolute difference between the primary and duplicate samples is less than the LOQ, the limits for RPDs do not apply based on EPA guidelines.

| Analyte | SVP-62-4 | SVP-DUP-03 | RPD (%) | LOQ |
|---|---|---|---|---|
| Acetone | 77 | 100 | 26 | 57 |

Notes:
All concentrations in micrograms per cubic meter.
% = percent
LOQ = Limit of quantitation
RPD = Relative percent difference

**Overall Assessment**

Based on high RPDs in samples SVP-10-5 and SVP-DUP-01, concentrations of benzene, benzene, n-hexane, and TPH as gasoline should be qualified as estimates (J) for these samples.

There were no other issues that would require additional qualifiers in the data.

If you have any questions regarding this data validation report, please contact Michael Friedman at 415-967-6000.

Regards,

Michael Friedman, PG
Senior Geologist II

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 509527
Report Level : II
Report Date : 06/11/2024

**Analytical Report** *prepared for:*

Josh Osborne
Roux Associates
555 12th Street
Suite 250
Oakland, CA 94607

Project: 1793.0030S000 - AB&I Foundry

*Authorized for release by:*



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

# Sample Summary

Josh Osborne
Roux Associates
555 12th Street
Suite 250
Oakland, CA
94607

| | |
|---|---|
| Lab Job #: | 509527 |
| Project No: | 1793.0030S000 |
| Location: | AB&I Foundry |
| Date Received: | 06/04/24 |

| Sample ID | Lab ID | Collected | Matrix |
|---|---|---|---|
| SVP-41-8 | 509527-001 | 05/30/24 18:31 | Air |
| SVP-41-5 | 509527-002 | 05/30/24 12:02 | Air |
| SVP-45-5 | 509527-003 | 05/30/24 12:58 | Air |
| SVP-53-5 | 509527-004 | 05/30/24 14:18 | Air |
| SVP-53-8 | 509527-005 | 05/30/24 15:52 | Air |
| SVP-06-5 | 509527-006 | 05/31/24 09:55 | Air |
| SVP-06-8 | 509527-007 | 05/31/24 10:42 | Air |
| SVP-25-8 | 509527-008 | 05/31/24 16:50 | Air |
| SVP-36-5 | 509527-009 | 05/31/24 15:48 | Air |
| SVP-13-8 | 509527-010 | 06/03/24 13:55 | Air |
| SVP-10-8 | 509527-011 | 06/03/24 11:53 | Air |
| SVP-10-5 | 509527-012 | 06/03/24 10:21 | Air |
| SVP-DUP-01 | 509527-013 | 06/03/24 10:21 | Air |
| SVP-13-5 | 509527-014 | 06/03/24 11:18 | Air |
| SVP-DUP-02 | 509527-015 | 06/03/24 11:18 | Air |
| SVP-62-4 | 509527-016 | 06/03/24 13:15 | Air |
| SVP-DUP-03 | 509527-017 | 06/03/24 13:15 | Air |
| SVP-57-5 | 509527-018 | 06/03/24 14:32 | Air |
| SVP-32-8 | 509527-019 | 05/31/24 11:56 | Air |
| SVP-52-8 | 509527-020 | 05/31/24 15:36 | Air |
| SVP-25-5 | 509527-021 | 06/03/24 15:47 | Air |
| SVP-36-8 | 509527-022 | 06/03/24 16:32 | Air |

ENTHALPY ANALYTICAL

# Case Narrative

| | |
|---|---|
| Roux Associates<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607<br>Josh Osborne | Lab Job Number: 509527<br>Project No: 1793.0030S000<br>Location: AB&I Foundry<br>Date Received: 06/04/24 |

This data package contains sample and QC results for twenty two air samples, requested for the above referenced project on 06/04/24. The samples were received intact.

**Volatile Organics in Air by MS (EPA TO-15):**

- High ICAL percent RSD (relative standard deviation) was observed for naphthalene in the calibration analyzed 05/09/24 17:52; affected data was qualified with "b".
- No other analytical problems were encountered.

**Volatile Organics in Air GC (ASTM D1946):**

No analytical problems were encountered.

**Volatile Organics in Air GC - TO3 (EPA TO-3M):**

No analytical problems were encountered.

ENTHALPY ANALYTICAL

# Detection Summary

Josh Osborne
Roux Associates
555 12th Street
Suite 250
Oakland, CA 94607

Lab Job #: 509527
Project No: 1793.0030S000
Location: AB&I Foundry
Date Received: 06/04/24

**Sample ID: SVP-41-8** **Lab ID: 509527-001** **Collected: 05/30/24 18:31**
**Matrix: Air**

| 509527-001 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **0.92** | | %v/v | 0.20 |
| Oxygen | **13** | | %v/v | 0.20 |
| Nitrogen | **83** | | %v/v | 10 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Freon 12 | **0.59** | | ppbv | 0.40 |
| Freon 12 | **2.9** | | ug/m3 | 2.0 |
| Chloromethane | **1.5** | | ppbv | 0.40 |
| Chloromethane | **3.0** | | ug/m3 | 0.83 |
| Acetone | **28** | | ppbv | 2.0 |
| Acetone | **66** | | ug/m3 | 4.8 |
| Carbon Disulfide | **16** | | ppbv | 0.40 |
| Carbon Disulfide | **49** | | ug/m3 | 1.2 |
| Isopropanol (IPA) | **34** | | ppbv | 2.0 |
| Isopropanol (IPA) | **84** | | ug/m3 | 4.9 |
| Methylene Chloride | **1.4** | | ppbv | 0.40 |
| Methylene Chloride | **4.8** | | ug/m3 | 1.4 |
| n-Hexane | **0.79** | | ppbv | 0.40 |
| n-Hexane | **2.8** | | ug/m3 | 1.4 |
| 2-Butanone | **3.5** | | ppbv | 2.0 |
| 2-Butanone | **10** | | ug/m3 | 5.9 |
| Chloroform | **0.54** | | ppbv | 0.40 |
| Chloroform | **2.6** | | ug/m3 | 2.0 |
| Benzene | **1.6** | | ppbv | 0.40 |
| Benzene | **5.0** | | ug/m3 | 1.3 |
| Toluene | **6.6** | | ppbv | 0.40 |
| Toluene | **25** | | ug/m3 | 1.5 |
| Tetrachloroethene | **0.80** | | ppbv | 0.40 |
| Tetrachloroethene | **5.4** | | ug/m3 | 2.7 |
| Ethylbenzene | **0.58** | | ppbv | 0.40 |
| Ethylbenzene | **2.5** | | ug/m3 | 1.7 |
| m,p-Xylenes | **1.3** | | ppbv | 0.80 |
| m,p-Xylenes | **5.5** | | ug/m3 | 3.5 |
| o-Xylene | **0.57** | | ppbv | 0.40 |
| o-Xylene | **2.5** | | ug/m3 | 1.7 |
| Xylene (total) | **1.8** | | ppbv | 0.40 |
| Xylene (total) | **8.0** | | ug/m3 | 1.7 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **1.6** | | ppmv | 0.050 |
| TPH Gasoline | **6,500** | | ug/m3 | 200 |


Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| 509527-001 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|

**Sample ID: SVP-41-5** **Lab ID: 509527-002** **Collected: 05/30/24 12:02**
**Matrix: Air**

| 509527-002 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **3.2** | | %v/v | 0.20 |
| Oxygen | **3.2** | | %v/v | 0.20 |
| Nitrogen | **89** | | %v/v | 10 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Freon 12 | **0.60** | | ppbv | 0.40 |
| Freon 12 | **3.0** | | ug/m3 | 2.0 |
| Acetone | **5.9** | | ppbv | 2.0 |
| Acetone | **14** | | ug/m3 | 4.8 |
| Carbon Disulfide | **4.3** | | ppbv | 0.40 |
| Carbon Disulfide | **13** | | ug/m3 | 1.2 |
| cis-1,2-Dichloroethene | **0.42** | | ppbv | 0.40 |
| cis-1,2-Dichloroethene | **1.7** | | ug/m3 | 1.6 |
| Chloroform | **1.1** | | ppbv | 0.40 |
| Chloroform | **5.6** | | ug/m3 | 2.0 |
| Benzene | **1.3** | | ppbv | 0.40 |
| Benzene | **4.1** | | ug/m3 | 1.3 |
| Trichloroethene | **3.2** | | ppbv | 0.40 |
| Trichloroethene | **17** | | ug/m3 | 2.1 |
| Toluene | **4.5** | | ppbv | 0.40 |
| Toluene | **17** | | ug/m3 | 1.5 |
| Tetrachloroethene | **3.3** | | ppbv | 0.40 |
| Tetrachloroethene | **22** | | ug/m3 | 2.7 |
| Ethylbenzene | **0.60** | | ppbv | 0.40 |
| Ethylbenzene | **2.6** | | ug/m3 | 1.7 |
| m,p-Xylenes | **1.4** | | ppbv | 0.80 |
| m,p-Xylenes | **5.9** | | ug/m3 | 3.5 |
| o-Xylene | **0.74** | | ppbv | 0.40 |
| o-Xylene | **3.2** | | ug/m3 | 1.7 |
| 1,2,4-Trimethylbenzene | **0.65** | | ppbv | 0.40 |
| 1,2,4-Trimethylbenzene | **3.2** | | ug/m3 | 2.0 |
| Xylene (total) | **2.1** | | ppbv | 0.40 |
| Xylene (total) | **9.1** | | ug/m3 | 1.7 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **1.1** | | ppmv | 0.050 |
| TPH Gasoline | **4,300** | | ug/m3 | 200 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-45-5 | Lab ID: 509527-003 | Collected: 05/30/24 12:58 |
|---|---|---|
| | Matrix: Air | |

| 509527-003 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **2.1** | | %v/v | 0.22 |
| Methane | **6.0** | | %v/v | 0.22 |
| Nitrogen | **87** | | %v/v | 11 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Vinyl Chloride | **38** | | ppbv | 0.44 |
| Vinyl Chloride | **98** | | ug/m3 | 1.1 |
| Chloroethane | **1.3** | | ppbv | 0.44 |
| Chloroethane | **3.4** | | ug/m3 | 1.2 |
| Acetone | **7.7** | | ppbv | 2.2 |
| Acetone | **18** | | ug/m3 | 5.2 |
| Carbon Disulfide | **2.8** | | ppbv | 0.44 |
| Carbon Disulfide | **8.7** | | ug/m3 | 1.4 |
| MTBE | **2.6** | | ppbv | 0.44 |
| MTBE | **9.4** | | ug/m3 | 1.6 |
| n-Hexane | **56** | | ppbv | 0.44 |
| n-Hexane | **200** | | ug/m3 | 1.6 |
| 1,1-Dichloroethane | **1.4** | | ppbv | 0.44 |
| 1,1-Dichloroethane | **5.7** | | ug/m3 | 1.8 |
| cis-1,2-Dichloroethene | **4.5** | | ppbv | 0.44 |
| cis-1,2-Dichloroethene | **18** | | ug/m3 | 1.7 |
| 2-Butanone | **2.3** | | ppbv | 2.2 |
| 2-Butanone | **6.8** | | ug/m3 | 6.5 |
| Benzene | **1.9** | | ppbv | 0.44 |
| Benzene | **6.0** | | ug/m3 | 1.4 |
| Toluene | **0.98** | | ppbv | 0.44 |
| Toluene | **3.7** | | ug/m3 | 1.7 |
| Tetrachloroethene | **0.75** | | ppbv | 0.44 |
| Tetrachloroethene | **5.1** | | ug/m3 | 3.0 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **4.7** | | ppmv | 0.055 |
| TPH Gasoline | **19,000** | | ug/m3 | 220 |



Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-53-5 | Lab ID: 509527-004 | Collected: 05/30/24 14:18 |
|---|---|---|
| | Matrix: Air | |

| 509527-004 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **0.46** | | %v/v | 0.20 |
| Methane | **5.3** | | %v/v | 0.20 |
| Nitrogen | **89** | | %v/v | 10 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| n-Hexane | **1,700** | | ppbv | 8.0 |
| n-Hexane | **5,900** | | ug/m3 | 28 |
| 1,1-Dichloroethane | **10** | | ppbv | 8.0 |
| 1,1-Dichloroethane | **41** | | ug/m3 | 32 |
| Benzene | **9.3** | | ppbv | 8.0 |
| Benzene | **30** | | ug/m3 | 26 |
| Toluene | **15** | | ppbv | 8.0 |
| Toluene | **57** | | ug/m3 | 30 |
| Ethylbenzene | **8.2** | | ppbv | 8.0 |
| Ethylbenzene | **35** | | ug/m3 | 35 |
| 1,3,5-Trimethylbenzene | **12** | | ppbv | 8.0 |
| 1,3,5-Trimethylbenzene | **57** | | ug/m3 | 39 |
| 1,2,4-Trimethylbenzene | **9.4** | | ppbv | 8.0 |
| 1,2,4-Trimethylbenzene | **46** | | ug/m3 | 39 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **32** | | ppmv | 0.050 |
| TPH Gasoline | **130,000** | | ug/m3 | 200 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-53-8 | Lab ID: 509527-005 | Collected: 05/30/24 15:52 |
|---|---|---|
| | Matrix: Air | |

| 509527-005 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **1.1** | | %v/v | 0.22 |
| Oxygen | **12** | | %v/v | 0.22 |
| Methane | **0.69** | | %v/v | 0.22 |
| Nitrogen | **82** | | %v/v | 11 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Acetone | **9.3** | | ppbv | 5.5 |
| Acetone | **22** | | ug/m3 | 13 |
| Carbon Disulfide | **30** | | ppbv | 1.1 |
| Carbon Disulfide | **92** | | ug/m3 | 3.4 |
| Isopropanol (IPA) | **5.7** | | ppbv | 5.5 |
| Isopropanol (IPA) | **14** | | ug/m3 | 14 |
| n-Hexane | **250** | | ppbv | 1.1 |
| n-Hexane | **900** | | ug/m3 | 3.9 |
| Benzene | **3.8** | | ppbv | 1.1 |
| Benzene | **12** | | ug/m3 | 3.5 |
| Toluene | **4.5** | | ppbv | 1.1 |
| Toluene | **17** | | ug/m3 | 4.1 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **6.2** | | ppmv | 0.055 |
| TPH Gasoline | **25,000** | | ug/m3 | 220 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-06-5 | Lab ID: 509527-006 | Collected: 05/31/24 09:55 |
|---|---|---|
| | Matrix: Air | |

| 509527-006 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **15** | | %v/v | 0.21 |
| Methane | **2.8** | | %v/v | 0.21 |
| Nitrogen | **77** | | %v/v | 11 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Acetone | **57** | | ppbv | 2.1 |
| Acetone | **130** | | ug/m3 | 5.0 |
| Carbon Disulfide | **22** | | ppbv | 0.42 |
| Carbon Disulfide | **67** | | ug/m3 | 1.3 |
| Isopropanol (IPA) | **32** | | ppbv | 2.1 |
| Isopropanol (IPA) | **79** | | ug/m3 | 5.2 |
| Methylene Chloride | **0.47** | | ppbv | 0.42 |
| Methylene Chloride | **1.6** | | ug/m3 | 1.5 |
| n-Hexane | **52** | | ppbv | 0.42 |
| n-Hexane | **180** | | ug/m3 | 1.5 |
| cis-1,2-Dichloroethene | **0.70** | | ppbv | 0.42 |
| cis-1,2-Dichloroethene | **2.8** | | ug/m3 | 1.7 |
| 2-Butanone | **15** | | ppbv | 2.1 |
| 2-Butanone | **45** | | ug/m3 | 6.2 |
| Chloroform | **1.2** | | ppbv | 0.42 |
| Chloroform | **5.8** | | ug/m3 | 2.1 |
| Benzene | **6.8** | | ppbv | 0.42 |
| Benzene | **22** | | ug/m3 | 1.3 |
| 4-Methyl-2-Pentanone | **1.6** | | ppbv | 0.42 |
| 4-Methyl-2-Pentanone | **6.5** | | ug/m3 | 1.7 |
| Toluene | **5.5** | | ppbv | 0.42 |
| Toluene | **21** | | ug/m3 | 1.6 |
| Tetrachloroethene | **0.93** | | ppbv | 0.42 |
| Tetrachloroethene | **6.3** | | ug/m3 | 2.8 |
| 2-Hexanone | **1.8** | | ppbv | 1.1 |
| 2-Hexanone | **7.2** | | ug/m3 | 4.3 |
| Ethylbenzene | **0.46** | | ppbv | 0.42 |
| Ethylbenzene | **2.0** | | ug/m3 | 1.8 |
| m,p-Xylenes | **1.1** | | ppbv | 0.84 |
| m,p-Xylenes | **4.9** | | ug/m3 | 3.6 |
| o-Xylene | **0.43** | | ppbv | 0.42 |
| o-Xylene | **1.8** | | ug/m3 | 1.8 |
| Xylene (total) | **1.6** | | ppbv | 0.42 |
| Xylene (total) | **6.7** | | ug/m3 | 1.8 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **2.0** | | ppmv | 0.053 |
| TPH Gasoline | **8,300** | | ug/m3 | 210 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-06-8 | Lab ID: 509527-007 | Collected: 05/31/24 10:42 |
|---|---|---|
| | Matrix: Air | |

| 509527-007 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **14** | | %v/v | 0.20 |
| Methane | **2.8** | | %v/v | 0.20 |
| Nitrogen | **79** | | %v/v | 10 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Acetone | **62** | | ppbv | 2.0 |
| Acetone | **150** | | ug/m3 | 4.8 |
| Carbon Disulfide | **54** | | ppbv | 0.40 |
| Carbon Disulfide | **170** | | ug/m3 | 1.2 |
| Isopropanol (IPA) | **3.2** | | ppbv | 2.0 |
| Isopropanol (IPA) | **7.9** | | ug/m3 | 4.9 |
| n-Hexane | **53** | | ppbv | 0.40 |
| n-Hexane | **190** | | ug/m3 | 1.4 |
| cis-1,2-Dichloroethene | **0.70** | | ppbv | 0.40 |
| cis-1,2-Dichloroethene | **2.8** | | ug/m3 | 1.6 |
| 2-Butanone | **9.7** | | ppbv | 2.0 |
| 2-Butanone | **29** | | ug/m3 | 5.9 |
| Chloroform | **2.1** | | ppbv | 0.40 |
| Chloroform | **10** | | ug/m3 | 2.0 |
| Benzene | **4.4** | | ppbv | 0.40 |
| Benzene | **14** | | ug/m3 | 1.3 |
| Trichloroethene | **0.45** | | ppbv | 0.40 |
| Trichloroethene | **2.4** | | ug/m3 | 2.1 |
| 4-Methyl-2-Pentanone | **0.76** | | ppbv | 0.40 |
| 4-Methyl-2-Pentanone | **3.1** | | ug/m3 | 1.6 |
| Toluene | **13** | | ppbv | 0.40 |
| Toluene | **50** | | ug/m3 | 1.5 |
| Tetrachloroethene | **0.60** | | ppbv | 0.40 |
| Tetrachloroethene | **4.1** | | ug/m3 | 2.7 |
| Ethylbenzene | **0.67** | | ppbv | 0.40 |
| Ethylbenzene | **2.9** | | ug/m3 | 1.7 |
| m,p-Xylenes | **2.1** | | ppbv | 0.80 |
| m,p-Xylenes | **9.2** | | ug/m3 | 3.5 |
| o-Xylene | **0.70** | | ppbv | 0.40 |
| o-Xylene | **3.0** | | ug/m3 | 1.7 |
| Xylene (total) | **2.8** | | ppbv | 0.40 |
| Xylene (total) | **12** | | ug/m3 | 1.7 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **2.0** | | ppmv | 0.050 |
| TPH Gasoline | **8,200** | | ug/m3 | 200 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-25-8 | Lab ID: 509527-008 | Collected: 05/31/24 16:50 |
|---|---|---|
| | Matrix: Air | |

| 509527-008 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **1.1** | | %v/v | 0.21 |
| Oxygen | **18** | | %v/v | 0.21 |
| Nitrogen | **76** | | %v/v | 11 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Freon 12 | **0.49** | | ppbv | 0.42 |
| Freon 12 | **2.4** | | ug/m3 | 2.1 |
| Chloromethane | **0.67** | | ppbv | 0.42 |
| Chloromethane | **1.4** | | ug/m3 | 0.87 |
| Chloroethane | **6.9** | | ppbv | 0.42 |
| Chloroethane | **18** | | ug/m3 | 1.1 |
| Acetone | **21** | | ppbv | 2.1 |
| Acetone | **50** | | ug/m3 | 5.0 |
| Carbon Disulfide | **21** | | ppbv | 0.42 |
| Carbon Disulfide | **65** | | ug/m3 | 1.3 |
| Isopropanol (IPA) | **8.0** | | ppbv | 2.1 |
| Isopropanol (IPA) | **20** | | ug/m3 | 5.2 |
| Methylene Chloride | **0.59** | | ppbv | 0.42 |
| Methylene Chloride | **2.0** | | ug/m3 | 1.5 |
| trans-1,2-Dichloroethene | **7.4** | | ppbv | 0.42 |
| trans-1,2-Dichloroethene | **29** | | ug/m3 | 1.7 |
| n-Hexane | **21** | | ppbv | 0.42 |
| n-Hexane | **73** | | ug/m3 | 1.5 |
| 1,1-Dichloroethane | **2.3** | | ppbv | 0.42 |
| 1,1-Dichloroethane | **9.3** | | ug/m3 | 1.7 |
| cis-1,2-Dichloroethene | **21** | | ppbv | 0.42 |
| cis-1,2-Dichloroethene | **85** | | ug/m3 | 1.7 |
| 2-Butanone | **6.6** | | ppbv | 2.1 |
| 2-Butanone | **19** | | ug/m3 | 6.2 |
| Chloroform | **1.9** | | ppbv | 0.42 |
| Chloroform | **9.4** | | ug/m3 | 2.1 |
| Benzene | **1.5** | | ppbv | 0.42 |
| Benzene | **4.7** | | ug/m3 | 1.3 |
| Trichloroethene | **47** | | ppbv | 0.42 |
| Trichloroethene | **250** | | ug/m3 | 2.3 |
| 4-Methyl-2-Pentanone | **1.9** | | ppbv | 0.42 |
| 4-Methyl-2-Pentanone | **7.9** | | ug/m3 | 1.7 |
| Toluene | **4.5** | | ppbv | 0.42 |
| Toluene | **17** | | ug/m3 | 1.6 |
| Tetrachloroethene | **160** | | ppbv | 1.1 |
| Tetrachloroethene | **1,100** | | ug/m3 | 7.1 |
| Ethylbenzene | **0.48** | | ppbv | 0.42 |
| Ethylbenzene | **2.1** | | ug/m3 | 1.8 |
| m,p-Xylenes | **1.9** | | ppbv | 0.84 |
| m,p-Xylenes | **8.2** | | ug/m3 | 3.6 |



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ENTHALPY ANALYTICAL

# Detection Summary

| 509527-008 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| o-Xylene | **0.78** | | ppbv | 0.42 |
| o-Xylene | **3.4** | | ug/m3 | 1.8 |
| Xylene (total) | **2.7** | | ppbv | 0.42 |
| Xylene (total) | **12** | | ug/m3 | 1.8 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **3.4** | | ppmv | 0.053 |
| TPH Gasoline | **14,000** | | ug/m3 | 210 |

**Sample ID: SVP-36-5** **Lab ID: 509527-009** **Collected: 05/31/24 15:48**
**Matrix: Air**

| 509527-009 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **0.46** | | %v/v | 0.24 |
| Oxygen | **9.2** | | %v/v | 0.24 |
| Methane | **16** | | %v/v | 0.24 |
| Nitrogen | **68** | | %v/v | 12 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Vinyl Chloride | **96** | | ppbv | 60 |
| Vinyl Chloride | **250** | | ug/m3 | 150 |
| Chloroethane | **39,000** | | ppbv | 300 |
| Chloroethane | **100,000** | | ug/m3 | 790 |
| Carbon Disulfide | **64** | | ppbv | 60 |
| Carbon Disulfide | **200** | | ug/m3 | 190 |
| n-Hexane | **5,100** | | ppbv | 60 |
| n-Hexane | **18,000** | | ug/m3 | 210 |
| 1,1-Dichloroethane | **3,000** | | ppbv | 60 |
| 1,1-Dichloroethane | **12,000** | | ug/m3 | 240 |
| o-Xylene | **120** | | ppbv | 60 |
| o-Xylene | **520** | | ug/m3 | 260 |
| 1,3,5-Trimethylbenzene | **60** | | ppbv | 60 |
| 1,3,5-Trimethylbenzene | **300** | | ug/m3 | 290 |
| 1,2,4-Trimethylbenzene | **76** | | ppbv | 60 |
| 1,2,4-Trimethylbenzene | **370** | | ug/m3 | 290 |
| 1,4-Dichlorobenzene | **220** | | ppbv | 60 |
| 1,4-Dichlorobenzene | **1,300** | | ug/m3 | 360 |
| Xylene (total) | **120** | | ppbv | 60 |
| Xylene (total) | **520** | | ug/m3 | 260 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **480** | | ppmv | 3.0 |
| TPH Gasoline | **2,000,000** | | ug/m3 | 12,000 |


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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-13-8 | Lab ID: 509527-010 | Collected: 06/03/24 13:55 |
|---|---|---|
| | Matrix: Air | |

| 509527-010 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **0.68** | | %v/v | 0.24 |
| Oxygen | **16** | | %v/v | 0.24 |
| Methane | **0.25** | | %v/v | 0.24 |
| Nitrogen | **78** | | %v/v | 12 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Freon 12 | **0.53** | | ppbv | 0.48 |
| Freon 12 | **2.6** | | ug/m3 | 2.4 |
| Chloromethane | **0.82** | | ppbv | 0.48 |
| Chloromethane | **1.7** | | ug/m3 | 0.99 |
| Chloroethane | **1.5** | | ppbv | 0.48 |
| Chloroethane | **4.0** | | ug/m3 | 1.3 |
| Acetone | **8.0** | | ppbv | 2.4 |
| Acetone | **19** | | ug/m3 | 5.7 |
| Carbon Disulfide | **72** | | ppbv | 0.48 |
| Carbon Disulfide | **220** | | ug/m3 | 1.5 |
| Isopropanol (IPA) | **8.1** | | ppbv | 2.4 |
| Isopropanol (IPA) | **20** | | ug/m3 | 5.9 |
| Methylene Chloride | **1.5** | | ppbv | 0.48 |
| Methylene Chloride | **5.2** | | ug/m3 | 1.7 |
| MTBE | **1.8** | | ppbv | 0.48 |
| MTBE | **6.5** | | ug/m3 | 1.7 |
| n-Hexane | **98** | | ppbv | 0.48 |
| n-Hexane | **350** | | ug/m3 | 1.7 |
| 2-Butanone | **2.4** | | ppbv | 2.4 |
| 2-Butanone | **7.2** | | ug/m3 | 7.1 |
| Chloroform | **6.9** | | ppbv | 0.48 |
| Chloroform | **34** | | ug/m3 | 2.3 |
| Benzene | **2.3** | | ppbv | 0.48 |
| Benzene | **7.5** | | ug/m3 | 1.5 |
| Toluene | **4.5** | | ppbv | 0.48 |
| Toluene | **17** | | ug/m3 | 1.8 |
| Tetrachloroethene | **0.52** | | ppbv | 0.48 |
| Tetrachloroethene | **3.5** | | ug/m3 | 3.3 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **2.8** | | ppmv | 0.060 |
| TPH Gasoline | **11,000** | | ug/m3 | 250 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-10-8 | Lab ID: 509527-011 | Collected: 06/03/24 11:53 |
|---|---|---|
| | Matrix: Air | |

| 509527-011 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Helium | **0.36** | | %v/v | 0.23 |
| Carbon Dioxide | **0.78** | | %v/v | 0.23 |
| Oxygen | **12** | | %v/v | 0.23 |
| Methane | **0.86** | | %v/v | 0.23 |
| Nitrogen | **82** | | %v/v | 12 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Carbon Disulfide | **46** | | ppbv | 46 |
| Carbon Disulfide | **140** | | ug/m3 | 140 |
| n-Hexane | **7,300** | | ppbv | 46 |
| n-Hexane | **26,000** | | ug/m3 | 160 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **570** | | ppmv | 5.8 |
| TPH Gasoline | **2,300,000** | | ug/m3 | 24,000 |

| Sample ID: SVP-10-5 | Lab ID: 509527-012 | Collected: 06/03/24 10:21 |
|---|---|---|
| | Matrix: Air | |

| 509527-012 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **4.0** | | %v/v | 0.17 |
| Oxygen | **14** | | %v/v | 0.17 |
| Nitrogen | **79** | | %v/v | 8.5 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| n-Hexane | **0.91** | | ppbv | 0.85 |
| n-Hexane | **3.2** | | ug/m3 | 3.0 |
| 1,1,1-Trichloroethane | **3.5** | | ppbv | 0.85 |
| 1,1,1-Trichloroethane | **19** | | ug/m3 | 4.6 |
| Tetrachloroethene | **120** | | ppbv | 0.85 |
| Tetrachloroethene | **840** | | ug/m3 | 5.8 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **0.31** | | ppmv | 0.043 |
| TPH Gasoline | **1,300** | | ug/m3 | 170 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-DUP-01 | Lab ID: 509527-013 | Collected: 06/03/24 10:21 |
|---|---|---|
| | Matrix: Air | |

| 509527-013 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **4.0** | | %v/v | 0.17 |
| Oxygen | **14** | | %v/v | 0.17 |
| Nitrogen | **79** | | %v/v | 8.5 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| n-Hexane | **9.6** | | ppbv | 0.85 |
| n-Hexane | **34** | | ug/m3 | 3.0 |
| 1,1,1-Trichloroethane | **3.5** | | ppbv | 0.85 |
| 1,1,1-Trichloroethane | **19** | | ug/m3 | 4.6 |
| Benzene | **3.2** | | ppbv | 0.85 |
| Benzene | **10** | | ug/m3 | 2.7 |
| Tetrachloroethene | **130** | | ppbv | 0.85 |
| Tetrachloroethene | **860** | | ug/m3 | 5.8 |
| Ethylbenzene | **10** | | ppbv | 0.85 |
| Ethylbenzene | **45** | | ug/m3 | 3.7 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **0.44** | | ppmv | 0.043 |
| TPH Gasoline | **1,800** | | ug/m3 | 170 |



Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-13-5 | Lab ID: 509527-014 | Collected: 06/03/24 11:18 |
|---|---|---|
| | Matrix: Air | |

| 509527-014 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **17** | | %v/v | 0.21 |
| Methane | **52** | | %v/v | 0.32 |
| Nitrogen | **28** | | %v/v | 11 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Chloroethane | **3.9** | | ppbv | 3.2 |
| Chloroethane | **10** | | ug/m3 | 8.3 |
| Carbon Disulfide | **4.2** | | ppbv | 3.2 |
| Carbon Disulfide | **13** | | ug/m3 | 9.8 |
| n-Hexane | **600** | | ppbv | 3.2 |
| n-Hexane | **2,100** | | ug/m3 | 11 |
| Chloroform | **3.9** | | ppbv | 3.2 |
| Chloroform | **19** | | ug/m3 | 15 |
| Benzene | **21** | | ppbv | 3.2 |
| Benzene | **68** | | ug/m3 | 10 |
| Toluene | **13** | | ppbv | 3.2 |
| Toluene | **49** | | ug/m3 | 12 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **36** | | ppmv | 0.79 |
| TPH Gasoline | **150,000** | | ug/m3 | 3,200 |



Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-DUP-02 | Lab ID: 509527-015 | Collected: 06/03/24 11:18 |
|---|---|---|
| | Matrix: Air | |

| 509527-015 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **17** | | %v/v | 0.21 |
| Methane | **52** | | %v/v | 0.32 |
| Nitrogen | **28** | | %v/v | 11 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Carbon Disulfide | **4.1** | | ppbv | 3.2 |
| Carbon Disulfide | **13** | | ug/m3 | 9.8 |
| n-Hexane | **600** | | ppbv | 3.2 |
| n-Hexane | **2,100** | | ug/m3 | 11 |
| Chloroform | **3.8** | | ppbv | 3.2 |
| Chloroform | **19** | | ug/m3 | 15 |
| Benzene | **21** | | ppbv | 3.2 |
| Benzene | **66** | | ug/m3 | 10 |
| Toluene | **12** | | ppbv | 3.2 |
| Toluene | **47** | | ug/m3 | 12 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **36** | | ppmv | 0.79 |
| TPH Gasoline | **150,000** | | ug/m3 | 3,200 |



Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-62-4 | Lab ID: 509527-016 | Collected: 06/03/24 13:15 |
|---|---|---|
| | Matrix: Air | |

| 509527-016 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **0.41** | | %v/v | 0.24 |
| Oxygen | **17** | | %v/v | 0.24 |
| Methane | **1.9** | | %v/v | 0.24 |
| Nitrogen | **75** | | %v/v | 12 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Vinyl Chloride | **25** | | ppbv | 6.0 |
| Vinyl Chloride | **64** | | ug/m3 | 15 |
| Acetone | **33** | | ppbv | 30 |
| Acetone | **77** | | ug/m3 | 71 |
| Carbon Disulfide | **7.9** | | ppbv | 6.0 |
| Carbon Disulfide | **24** | | ug/m3 | 19 |
| n-Hexane | **970** | | ppbv | 6.0 |
| n-Hexane | **3,400** | | ug/m3 | 21 |
| cis-1,2-Dichloroethene | **15** | | ppbv | 6.0 |
| cis-1,2-Dichloroethene | **60** | | ug/m3 | 24 |
| Benzene | **22** | | ppbv | 6.0 |
| Benzene | **71** | | ug/m3 | 19 |
| Trichloroethene | **24** | | ppbv | 6.0 |
| Trichloroethene | **130** | | ug/m3 | 32 |
| Toluene | **14** | | ppbv | 6.0 |
| Toluene | **53** | | ug/m3 | 23 |
| Chlorobenzene | **620** | | ppbv | 6.0 |
| Chlorobenzene | **2,800** | | ug/m3 | 28 |
| 1,4-Dichlorobenzene | **44** | | ppbv | 6.0 |
| 1,4-Dichlorobenzene | **270** | | ug/m3 | 36 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **27** | | ppmv | 0.060 |
| TPH Gasoline | **110,000** | | ug/m3 | 250 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-DUP-03 | Lab ID: 509527-017 | Collected: 06/03/24 13:15 |
|---|---|---|
| | Matrix: Air | |

| 509527-017 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **0.42** | | %v/v | 0.24 |
| Oxygen | **17** | | %v/v | 0.24 |
| Methane | **1.9** | | %v/v | 0.24 |
| Nitrogen | **75** | | %v/v | 12 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Vinyl Chloride | **27** | | ppbv | 4.8 |
| Vinyl Chloride | **70** | | ug/m3 | 12 |
| Acetone | **43** | | ppbv | 24 |
| Acetone | **100** | | ug/m3 | 57 |
| Carbon Disulfide | **9.0** | | ppbv | 4.8 |
| Carbon Disulfide | **28** | | ug/m3 | 15 |
| n-Hexane | **1,100** | | ppbv | 4.8 |
| n-Hexane | **3,900** | | ug/m3 | 17 |
| cis-1,2-Dichloroethene | **16** | | ppbv | 4.8 |
| cis-1,2-Dichloroethene | **65** | | ug/m3 | 19 |
| Benzene | **24** | | ppbv | 4.8 |
| Benzene | **77** | | ug/m3 | 15 |
| Trichloroethene | **25** | | ppbv | 4.8 |
| Trichloroethene | **130** | | ug/m3 | 26 |
| Toluene | **15** | | ppbv | 4.8 |
| Toluene | **57** | | ug/m3 | 18 |
| Chlorobenzene | **640** | | ppbv | 4.8 |
| Chlorobenzene | **2,900** | | ug/m3 | 22 |
| 1,4-Dichlorobenzene | **50** | | ppbv | 4.8 |
| 1,4-Dichlorobenzene | **300** | | ug/m3 | 29 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **26** | | ppmv | 0.60 |
| TPH Gasoline | **110,000** | | ug/m3 | 2,500 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-57-5 | Lab ID: 509527-018 | Collected: 06/03/24 14:32 |
|---|---|---|
| | Matrix: Air | |

| 509527-018 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **0.48** | | %v/v | 0.23 |
| Methane | **24** | | %v/v | 0.23 |
| Nitrogen | **70** | | %v/v | 12 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Vinyl Chloride | **130** | | ppbv | 1.8 |
| Vinyl Chloride | **320** | | ug/m3 | 4.7 |
| Chloroethane | **2.3** | | ppbv | 1.8 |
| Chloroethane | **6.1** | | ug/m3 | 4.9 |
| Acetone | **67** | | ppbv | 9.2 |
| Acetone | **160** | | ug/m3 | 22 |
| Carbon Disulfide | **57** | | ppbv | 1.8 |
| Carbon Disulfide | **180** | | ug/m3 | 5.7 |
| trans-1,2-Dichloroethene | **2.3** | | ppbv | 1.8 |
| trans-1,2-Dichloroethene | **9.3** | | ug/m3 | 7.3 |
| n-Hexane | **310** | | ppbv | 1.8 |
| n-Hexane | **1,100** | | ug/m3 | 6.5 |
| 1,1-Dichloroethane | **14** | | ppbv | 1.8 |
| 1,1-Dichloroethane | **55** | | ug/m3 | 7.4 |
| cis-1,2-Dichloroethene | **6.8** | | ppbv | 1.8 |
| cis-1,2-Dichloroethene | **27** | | ug/m3 | 7.3 |
| 2-Butanone | **12** | | ppbv | 9.2 |
| 2-Butanone | **36** | | ug/m3 | 27 |
| Benzene | **54** | | ppbv | 1.8 |
| Benzene | **170** | | ug/m3 | 5.9 |
| Trichloroethene | **3.5** | | ppbv | 1.8 |
| Trichloroethene | **19** | | ug/m3 | 9.9 |
| 4-Methyl-2-Pentanone | **12** | | ppbv | 1.8 |
| 4-Methyl-2-Pentanone | **49** | | ug/m3 | 7.5 |
| Toluene | **27** | | ppbv | 1.8 |
| Toluene | **100** | | ug/m3 | 6.9 |
| Tetrachloroethene | **2.8** | | ppbv | 1.8 |
| Tetrachloroethene | **19** | | ug/m3 | 12 |
| Ethylbenzene | **16** | | ppbv | 1.8 |
| Ethylbenzene | **71** | | ug/m3 | 8.0 |
| m,p-Xylenes | **24** | | ppbv | 3.7 |
| m,p-Xylenes | **100** | | ug/m3 | 16 |
| o-Xylene | **27** | | ppbv | 1.8 |
| o-Xylene | **120** | | ug/m3 | 8.0 |
| 4-Ethyltoluene | **15** | | ppbv | 1.8 |
| 4-Ethyltoluene | **74** | | ug/m3 | 9.0 |
| 1,3,5-Trimethylbenzene | **37** | | ppbv | 1.8 |
| 1,3,5-Trimethylbenzene | **180** | | ug/m3 | 9.0 |
| 1,2,4-Trimethylbenzene | **53** | | ppbv | 1.8 |
| 1,2,4-Trimethylbenzene | **260** | | ug/m3 | 9.0 |



Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| 509527-018 Analyte | | Result | Qual | Units | RL |
|---|---|---|---|---|---|
| | Xylene (total) | **51** | | ppbv | 1.8 |
| | Xylene (total) | **220** | | ug/m3 | 8.0 |
| Method: EPA TO-3M | | | | | |
| | TPH Gasoline | **43** | | ppmv | 0.12 |
| | TPH Gasoline | **170,000** | | ug/m3 | 470 |



Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-32-8 | Lab ID: 509527-019 | Collected: 05/31/24 11:56 |
|---|---|---|
| | Matrix: Air | |

| 509527-019 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **1.6** | | %v/v | 0.20 |
| Methane | **2.5** | | %v/v | 0.20 |
| Nitrogen | **91** | | %v/v | 10 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Vinyl Chloride | **16** | | ppbv | 0.80 |
| Vinyl Chloride | **41** | | ug/m3 | 2.0 |
| Acetone | **69** | | ppbv | 4.0 |
| Acetone | **160** | | ug/m3 | 9.5 |
| Carbon Disulfide | **0.98** | | ppbv | 0.80 |
| Carbon Disulfide | **3.1** | | ug/m3 | 2.5 |
| Isopropanol (IPA) | **170** | | ppbv | 20 |
| Isopropanol (IPA) | **420** | | ug/m3 | 49 |
| trans-1,2-Dichloroethene | **2.1** | | ppbv | 0.80 |
| trans-1,2-Dichloroethene | **8.3** | | ug/m3 | 3.2 |
| MTBE | **1.5** | | ppbv | 0.80 |
| MTBE | **5.5** | | ug/m3 | 2.9 |
| n-Hexane | **150** | | ppbv | 0.80 |
| n-Hexane | **520** | | ug/m3 | 2.8 |
| 1,1-Dichloroethane | **2.0** | | ppbv | 0.80 |
| 1,1-Dichloroethane | **8.3** | | ug/m3 | 3.2 |
| cis-1,2-Dichloroethene | **8.1** | | ppbv | 0.80 |
| cis-1,2-Dichloroethene | **32** | | ug/m3 | 3.2 |
| 2-Butanone | **4.8** | | ppbv | 4.0 |
| 2-Butanone | **14** | | ug/m3 | 12 |
| Benzene | **11** | | ppbv | 0.80 |
| Benzene | **36** | | ug/m3 | 2.6 |
| Toluene | **2.0** | | ppbv | 0.80 |
| Toluene | **7.4** | | ug/m3 | 3.0 |
| Tetrachloroethene | **1.4** | | ppbv | 0.80 |
| Tetrachloroethene | **9.7** | | ug/m3 | 5.4 |
| m,p-Xylenes | **1.9** | | ppbv | 1.6 |
| m,p-Xylenes | **8.4** | | ug/m3 | 6.9 |
| o-Xylene | **1.2** | | ppbv | 0.80 |
| o-Xylene | **5.0** | | ug/m3 | 3.5 |
| Xylene (total) | **3.1** | | ppbv | 0.80 |
| Xylene (total) | **13** | | ug/m3 | 3.5 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **5.3** | | ppmv | 0.050 |
| TPH Gasoline | **22,000** | | ug/m3 | 200 |



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ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-52-8 | Lab ID: 509527-020 | Collected: 05/31/24 15:36 |
|---|---|---|
| | Matrix: Air | |

| 509527-020 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **1.1** | | %v/v | 0.23 |
| Oxygen | **19** | | %v/v | 0.23 |
| Nitrogen | **77** | | %v/v | 12 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Freon 12 | **0.50** | | ppbv | 0.46 |
| Freon 12 | **2.5** | | ug/m3 | 2.3 |
| Chloromethane | **1.1** | | ppbv | 0.46 |
| Chloromethane | **2.3** | | ug/m3 | 0.95 |
| Chloroethane | **0.64** | | ppbv | 0.46 |
| Chloroethane | **1.7** | | ug/m3 | 1.2 |
| Acetone | **22** | | ppbv | 2.3 |
| Acetone | **53** | | ug/m3 | 5.5 |
| Carbon Disulfide | **14** | | ppbv | 0.46 |
| Carbon Disulfide | **44** | | ug/m3 | 1.4 |
| Isopropanol (IPA) | **15** | | ppbv | 2.3 |
| Isopropanol (IPA) | **38** | | ug/m3 | 5.7 |
| Methylene Chloride | **0.73** | | ppbv | 0.46 |
| Methylene Chloride | **2.5** | | ug/m3 | 1.6 |
| n-Hexane | **5.9** | | ppbv | 0.46 |
| n-Hexane | **21** | | ug/m3 | 1.6 |
| 2-Butanone | **4.9** | | ppbv | 2.3 |
| 2-Butanone | **14** | | ug/m3 | 6.8 |
| Chloroform | **1.9** | | ppbv | 0.46 |
| Chloroform | **9.1** | | ug/m3 | 2.2 |
| Benzene | **2.4** | | ppbv | 0.46 |
| Benzene | **7.6** | | ug/m3 | 1.5 |
| 4-Methyl-2-Pentanone | **1.7** | | ppbv | 0.46 |
| 4-Methyl-2-Pentanone | **6.9** | | ug/m3 | 1.9 |
| Toluene | **12** | | ppbv | 0.46 |
| Toluene | **46** | | ug/m3 | 1.7 |
| Ethylbenzene | **1.0** | | ppbv | 0.46 |
| Ethylbenzene | **4.3** | | ug/m3 | 2.0 |
| m,p-Xylenes | **4.7** | | ppbv | 0.92 |
| m,p-Xylenes | **20** | | ug/m3 | 4.0 |
| o-Xylene | **1.3** | | ppbv | 0.46 |
| o-Xylene | **5.5** | | ug/m3 | 2.0 |
| 1,3,5-Trimethylbenzene | **0.71** | | ppbv | 0.46 |
| 1,3,5-Trimethylbenzene | **3.5** | | ug/m3 | 2.3 |
| 1,2,4-Trimethylbenzene | **1.7** | | ppbv | 0.46 |
| 1,2,4-Trimethylbenzene | **8.2** | | ug/m3 | 2.3 |
| Xylene (total) | **5.9** | | ppbv | 0.46 |
| Xylene (total) | **26** | | ug/m3 | 2.0 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **0.95** | | ppmv | 0.058 |



Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| 509527-020 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| TPH Gasoline | **3,900** | | ug/m3 | 240 |

**Sample ID: SVP-25-5** **Lab ID: 509527-021** **Collected: 06/03/24 15:47**
**Matrix: Air**

| 509527-021 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Carbon Dioxide | **3.1** | | %v/v | 0.24 |
| Oxygen | **16** | | %v/v | 0.24 |
| Methane | **0.49** | | %v/v | 0.24 |
| Nitrogen | **75** | | %v/v | 12 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Carbon Disulfide | **7.4** | | ppbv | 4.0 |
| Carbon Disulfide | **23** | | ug/m3 | 12 |
| n-Hexane | **270** | | ppbv | 4.0 |
| n-Hexane | **940** | | ug/m3 | 14 |
| Chloroform | **6.1** | | ppbv | 4.0 |
| Chloroform | **30** | | ug/m3 | 20 |
| Trichloroethene | **12** | | ppbv | 4.0 |
| Trichloroethene | **65** | | ug/m3 | 21 |
| Toluene | **14** | | ppbv | 4.0 |
| Toluene | **54** | | ug/m3 | 15 |
| Tetrachloroethene | **40** | | ppbv | 4.0 |
| Tetrachloroethene | **270** | | ug/m3 | 27 |
| m,p-Xylenes | **10** | | ppbv | 8.0 |
| m,p-Xylenes | **45** | | ug/m3 | 35 |
| Xylene (total) | **10** | | ppbv | 4.0 |
| Xylene (total) | **45** | | ug/m3 | 17 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **45** | | ppmv | 0.60 |
| TPH Gasoline | **180,000** | | ug/m3 | 2,500 |


Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

# Detection Summary

| Sample ID: SVP-36-8 | Lab ID: 509527-022 | Collected: 06/03/24 16:32 |
|---|---|---|
| | Matrix: Air | |

| 509527-022 Analyte | Result | Qual | Units | RL |
|---|---|---|---|---|
| Method: ASTM D1946<br>Prep Method: METHOD | | | | |
| Helium | **0.39** | | %v/v | 0.26 |
| Carbon Dioxide | **1.0** | | %v/v | 0.26 |
| Oxygen | **14** | | %v/v | 0.26 |
| Methane | **1.9** | | %v/v | 0.26 |
| Nitrogen | **78** | | %v/v | 13 |
| Method: EPA TO-15<br>Prep Method: METHOD | | | | |
| Chloroethane | **630** | | ppbv | 16 |
| Chloroethane | **1,700** | | ug/m3 | 41 |
| n-Hexane | **2,700** | | ppbv | 16 |
| n-Hexane | **9,400** | | ug/m3 | 55 |
| 1,1-Dichloroethane | **17** | | ppbv | 16 |
| 1,1-Dichloroethane | **68** | | ug/m3 | 63 |
| Benzene | **25** | | ppbv | 16 |
| Benzene | **80** | | ug/m3 | 50 |
| Toluene | **20** | | ppbv | 16 |
| Toluene | **75** | | ug/m3 | 59 |
| o-Xylene | **80** | | ppbv | 16 |
| o-Xylene | **350** | | ug/m3 | 68 |
| 4-Ethyltoluene | **45** | | ppbv | 16 |
| 4-Ethyltoluene | **220** | | ug/m3 | 77 |
| 1,3,5-Trimethylbenzene | **70** | | ppbv | 16 |
| 1,3,5-Trimethylbenzene | **340** | | ug/m3 | 77 |
| 1,2,4-Trimethylbenzene | **58** | | ppbv | 16 |
| 1,2,4-Trimethylbenzene | **290** | | ug/m3 | 77 |
| 1,3-Dichlorobenzene | **18** | | ppbv | 16 |
| 1,3-Dichlorobenzene | **110** | | ug/m3 | 94 |
| 1,4-Dichlorobenzene | **69** | | ppbv | 16 |
| 1,4-Dichlorobenzene | **410** | | ug/m3 | 94 |
| 1,2-Dichlorobenzene | **23** | | ppbv | 16 |
| 1,2-Dichlorobenzene | **140** | | ug/m3 | 94 |
| Xylene (total) | **80** | | ppbv | 16 |
| Xylene (total) | **350** | | ug/m3 | 68 |
| Method: EPA TO-3M | | | | |
| TPH Gasoline | **220** | | ppmv | 0.65 |
| TPH Gasoline | **890,000** | | ug/m3 | 2,700 |



Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

509527

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# ENTHALPY ANALYTICAL

## Air Chain of Custody Record

Lab Job No. _____

Page 1 of 3

| CUSTOMER INFORMATION | | PROJECT INFORMATION | | PO Number: |
|---|---|---|---|---|
| Company: | Roux Associates, Inc | Name: | ABI | 1793.003050000 |
| Report To: | Josh Osborne | Number: | | Lab Quote Number: |
| Email: | Josborne@rouxinc.com | Address: | 7825 San Leandro St, Oakland, CA | |
| Address: | 555 12th st, suite 250, Oakland, CA | | | |
| | | Global ID: | | |
| Phone: | Fax: | Sampled By: | Anneke Vonk, Dylan B | |

Special Instructions:

| | Sample ID | Air Type (I) Indoor (A) Ambient (SV) Soil Vapor | Equipment Information: Canister ID | Canister Size (6L or 1L) | Flow Controller ID | Start Sampling Information: Date | Time | Canister Pressure (In. Hg) | Stop Sampling Information: Date | Time | Canister Pressure (In. Hg) | Analysis Request: VOCs by USEPA meth. TO-15 | TPH-g by USEPA meth. TO-3 | Fixed gases by ASTM D-1946 | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SVP-41-8 | SV | C10916 | 1L | A10618 | 5-30-24 | 1043 | -30 | 5-30-24 | 1631 | -5 | X | X | X | | | |
| 2 | SVP-41-5 | | C10780 | | A10341 | | 1154 | -29 | | 1202 | -5 | X | X | X | | | |
| 3 | SVP-45-5 | | C10823 | | A10496 | | 1251 | -28 | | 1258 | -4 | X | X | X | | | |
| 4 | SVP-53-5 | | C10823 | | A10128 | | 1411 | -30 | | 1418 | -3 | X | X | X | | | |
| 5 | SVP-53-8 | | C11019 | | A10303 | ↓ | 1511 | -28 | ↓ | 1552 | -5 | X | X | X | | | |
| 6 | SVP-06-5 | | C10862 | | A10361 | 5-31-24 | 0947 | -29 | 5-31-24 | 0955 | -5 | X | X | X | | | |
| 7 | SVP-06-8 | | C10852 | | A10746 | 5-31-24 | 1034 | -30 | 5-31-24 | 1042 | -5 | X | X | X | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | ↓ | | ↓ | | | | | | | | | | | | | |

Required Turnaround Time: Standard X; 5 Day ☐; 3 Day ☐; 2 Day ☐; 1 Day ☐; Custom TAT: ____

| | SIGNATURE | PRINT NAME | COMPANY/TITLE | DATE / TIME |
|---|---|---|---|---|
| RELINQUISHED BY: | Dylan B | Dylan Bailey | Roux | 6/4/24 1020 |
| RECEIVED BY: | Audrey Hudson | Audrey Hudson | Enthalpy | 6/4/24 1020 |
| RELINQUISHED BY: | Audrey Hudson | " | " | 6/4/24 1235 |
| RECEIVED BY: | | Kenneth High | Ent | 6/4/24 1435 |
| RELINQUISHED BY: | | Kenneth High | EA | 6/4/24 1442 |
| RECEIVED BY: | | | EA | 6-5-24 1000 |

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# ENTHALPY ANALYTICAL

## Air Chain of Custody Record

Lab Job No. _____



| CUSTOMER INFORMATION | | PROJECT INFORMATION | | PO Number: |
|---|---|---|---|---|
| Company: | | Name: | | |
| Report To: | See Page 1 | Number: | | Lab Quote Number: |
| Email: | | Address: | | |
| Address: | | | | |
| | | Global ID: | | |
| Phone: | Fax: | Sampled By: | | |

Special Instructions:

| | Sample ID | Air Type (I) Indoor (A) Ambient (SV) Soil Vapor | Equipment Information: Canister ID | Canister Size (6L or 1L) | Flow Controller ID | Start Sampling Information: Date | Time | Canister Pressure (in. Hg) | Stop Sampling Information: Date | Time | Canister Pressure (in. Hg) | Analysis Request: Vocs TO-15 | TPH-g TO-3 | Fixed Gases ASTM D-1946 | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SVP-2S-8 | SV | C11006 | 1L | A10286 | 5/31/24 | 1637 | -30 | 5-31-24 | 1650 | -8 | X | X | X | | | |
| 2 | SVP-3S-5 | SV | C11326 | 1L | A10783 | 5-31-24 | 1459 | -29 | 5-31-24 | 1548 | -7 | X | X | X | | | |
| 3 | SVP-13-8 | SV | C10929 | 1L | A10152 | 6-3-24 | 1127 | -30 | 6-3-24 | 1355 | -8 | X | X | X | | | |
| 4 | SVP-10-8 | SV | C10837 | 1L | A10118 | 6-3-24 | 1008 | -30 | 6-3-24 | 1153 | -8 | X | X | X | | | |
| 5 | SVP-10-5 | SV | C11476 | 1L | A10130 | 6-3-24 | 0958 | -30 | 6-3-24 | 1021 | -5 | X | X | X | | | |
| 6 | SVP-DUP-01 | SV | C10801 | 1L | A10130 | 6-3-24 | 0958 | -30 | 6-3-24 | 1021 | -5 | X | X | X | | | |
| 7 | SVP-13-5 | SV | C10735 | 1L | A10175 | 6-3-24 | 1104 | -29 | 6-3-24 | 1118 | -5 | X | X | X | | | |
| 8 | SVP-DUP-02 | SV | C11338 | 1L | A10175 | 6-3-24 | 1104 | -29 | 6-3-24 | 1118 | -5 | X | X | X | | | |
| 9 | SVP-62-4 | SV | C10968 | 1L | A10107 | 6-3-24 | ~~1141~~ 1224 | -29 | 6-3-24 | 1315 | -8 | X | X | X | | | Sample Start 1224 |
| 10 | SVP-DUP-03 | SV | C10948 | 1L | A10107 | 6-3-24 | 1224 | -29 | 6-3-24 | 1315 | -8 | X | X | X | | | |

Required Turnaround Time: Standard [X] 5 Day [ ] 3 Day [ ] 2 Day [ ] 1 Day [ ] Custom TAT: ____

| | SIGNATURE | PRINT NAME | COMPANY/TITLE | DATE / TIME |
|---|---|---|---|---|
| RELINQUISHED BY: | | Dylan Bailey | Locus | 6/4/24 10:20 |
| RECEIVED BY: | Audrey Hudson | AUDREY HUDSON | ENTHALPY | 6/4/24 10:20 |
| RELINQUISHED BY: | Audrey Hudson | " | " | 6/4/24 12:35 |
| RECEIVED BY: | | [illegible] | EA | 6/4/24 12:35 |
| RELINQUISHED BY: | | | | |
| RECEIVED BY: | | NICK | | 6-5-24 1000 |

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# ENTHALPY ANALYTICAL

## Air Chain of Custody Record

Lab Job No. _____



| CUSTOMER INFORMATION | | PROJECT INFORMATION | | PO Number: |
|---|---|---|---|---|
| Company: | | Name: | | |
| Report To: | See Page 1 | Number: | | Lab Quote Number: |
| Email: | | Address: | | |
| Address: | | | | |
| | | Global ID: | | |
| Phone: | Fax: | Sampled By: | | |

Special Instructions:

Analysis Request: VOCs TO-15 | TPH-g TO-3 | Fixed Gases ASTM D-1946

Required Turnaround Time: Standard [X] | 5 Day [ ] | 3 Day [ ] | 2 Day [ ] | 1 Day [ ] | Custom TAT: ____

| | Sample ID | Air Type (I) Indoor (A) Ambient (SV) Soil Vapor | Equipment Information: Canister ID | Canister Size (6L or 1L) | Flow Controller ID | Start Sampling Information: Date | Time | Canister Pressure (in. Hg) | Stop Sampling Information: Date | Time | Canister Pressure (in. Hg) | VOCs TO-15 | TPH-g TO-3 | Fixed Gases ASTM D-1946 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SVP-57-5 | SV | C11442 | 1L | A10144 | 6-3-24 | 1426 | -29 | 6-3-24 | 1432 | -5 | X | X | X | |
| 2 | SVP-32-8 | SV | C11365 | 1L | A10087 | 5-31-24 | 1147 | -29.5 | 5-31-24 | 1156 | -5 | X | X | X | |
| 3 | SVP-52-8 | SV | C10580 | 1L | A10385 | 5-31-24 | 1422 | -29 | 5-31-24 | 1536 | -10 | X | X | X | |
| 4 | SVP-25-5 | SV | C11511 | 1L | A10030 | 6-3-24 | 1255 | -29 | 6-3-24 | 1547 | -9 | X | X | X | |
| 5 | SVP-36-8 | SV | C10585 | 1L | A10381 | 6-3-24 | 1525 | -29 | 6-3-24 | 1632 | -10 | X | X | X | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |

| | SIGNATURE | PRINT NAME | COMPANY/TITLE | DATE / TIME |
|---|---|---|---|---|
| RELINQUISHED BY: | [signature] | Dylan Boyle | Row | 6/4/24 1020 |
| RECEIVED BY: | Audrey Hudson | AUDREY HUDSON | ENTHALPY | 6/4/24 1020 |
| RELINQUISHED BY: | Audrey Hudson | " | " | 6/4/24 1235 |
| RECEIVED BY: | [signature] | [illegible] | [illegible] | 6/4/24 17:35 |
| RELINQUISHED BY: | [signature] | | | |
| RECEIVED BY: | [signature] | [illegible] | FEDEX | 6-5-24 0900 |

## SAMPLE RECEIPT CHECKLIST

**Section 1: General Info**

Date Received: 6/4/24 Login # 509527 Client: Rose

**Section 2: Shipping / Custody**

Shipping Info: _____

Are custody seals present? ☑ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

Custody seals intact on arrival? ☐ Yes ☐ No ☑ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials

**Section 3: Condition / Packaging** ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen**

Date Opened 6/4/24 By (print) 6/4/24 (sign) _____

☐ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)

If no cooler: Sample Temp (°C): Ambient

How many coolers? 0 Temp (°C): #1:_____ #2:_____ #3:_____ #4:_____ #5:_____ #6: _____

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Type of ice used : ☐ Wet, ☐ Blue/Gel, ☑ None Temperature blank(s) included? ☐ Yes, ☐ No

| **Section 4: Containers / Labels / Samples** | YES | NO | N/A |
|---|---|---|---|
| Were custody papers dry, filled out properly, and the project identifiable? | ✓ | | |
| Were Method 5035 sampling containers present? Transferred to freezer @:_____ | | ✓ | |
| Did all containers arrive unbroken/unopened? | ✓ | | |
| Are there any missing / extra samples? | | ✓ | |
| Are samples in the appropriate containers for indicated tests? | ✓ | | |
| Are sample labels present, in good condition and complete? | ✓ | | |
| Does the container count match the COC? | ✓ | | |
| Do the sample labels agree with custody papers? | | ✓ | |
| Was sufficient amount of sample sent for tests requested? | ✓ | | |
| Did you change the hold time in LIMS for unpreserved VOAs? | | | ✓ |
| Did you change the hold time in LIMS for preserved terracores? | | | ✓ |
| Are bubbles > 6mm present in VOA samples? | | | ✓ |
| Was the client contacted about this delivery? Contacted:_____ By:_____ Date:_____ | | | |

| **Section 5: Preservatives** | YES | NO | N/A |
|---|---|---|---|
| Are the samples appropriately preserved? (if yes, skip the rest of section 5) | | | |
| Did any samples / containers require preservation upon receipt? | | | |
| Did you document your preservative check in the bench book? | | | |

Preservative added:

☐ H2SO4 lot#_____ added to samples_____ Date/Time_____

☐ HCL lot#_____ added to samples_____ Date/Time_____

☐ HNO3 lot#_____ added to samples_____ Date/Time_____

☐ CrVI Buffer lot#_____ added to samples_____ Date/Time_____

**Section 6: Explanations / Comments**

Two samples have ID "SVP-10-5", one identified as "SSS SVP-10-8" by container number.

Sample -001 does not match COC; confirmed by container number

**Date Logged** 6/4/24 **By (print)** [illegible] **(sign)** _____

**Date Labeled** 6/4/24 **By (print)** [illegible] **(sign)** _____

ENTHALPY ANALYTICAL

# SAMPLE ACCEPTANCE CHECKLIST

**Section 1**

Client: Roux Associates  Project: AB&I Foundry

Date Received: 6/5/24  Sampler's Name Present: ☑ Yes ☐ No

**Section 2**

Sample(s) received in a cooler? ☐ Yes, How many? _____ ☑ No (skip section 2)  Sample Temp (°C) (No Cooler): AMB

Sample Temp (°C), One from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

**Section 3**

Was the cooler packed with: ☐ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

| Section 4 | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✓ | | |
| Are sample IDs present? | ✓ | | |
| Are sampling dates & times present? | ✓ | | |
| Is a relinquished signature present? | ✓ | | |
| Are the tests required clearly indicated on the COC? | ✓ | | |
| Are custody seals present? | ✓ | | |
| If custody seals are present, were they intact? | ✓ | | |
| Are all samples sealed in plastic bags? (Recommended for Microbiology samples) | | | ✓ |
| Did all samples arrive intact? If no, indicate in Section 4 below. | ✓ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✓ | | |
| Were the samples collected in the correct containers for the required tests? | ✓ | | |
| Are the containers labeled with the correct preservatives? | | | ✓ |
| Is there headspace in the VOA vials greater than 5-6 mm in diameter? | | | ✓ |
| Was a sufficient amount of sample submitted for the requested tests? | ✓ | | |

**Section 5** Explanations/Comments

**Section 6**

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 6-5-24

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www.enthalpy.com/socal

ENTHALPY ANALYTICAL

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-41-8 **Batch#:** 342189 **Prep:** METHOD

**Lab ID:** 509527-001 **Sampled:** 05/30/24 18:31 **Analysis:** EPA TO-15

**Matrix:** Air **Received:** 06/04/24 **Analyst:** MBC

**Diln Fac:** 2.000 **Analyzed:** 06/07/24 15:35

| 509527-001 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 2.0 | ppbv | ND | 5.4 | ug/m3 |
| **Freon 12** | **0.59** | 0.40 | ppbv | **2.9** | 2.0 | ug/m3 |
| Freon 114 | ND | 0.40 | ppbv | ND | 2.8 | ug/m3 |
| **Chloromethane** | **1.5** | 0.40 | ppbv | **3.0** | 0.83 | ug/m3 |
| Vinyl Chloride | ND | 0.40 | ppbv | ND | 1.0 | ug/m3 |
| Bromomethane | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| Chloroethane | ND | 0.40 | ppbv | ND | 1.1 | ug/m3 |
| Trichlorofluoromethane | ND | 0.40 | ppbv | ND | 2.2 | ug/m3 |
| 1,1-Dichloroethene | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| Freon 113 | ND | 0.40 | ppbv | ND | 3.1 | ug/m3 |
| **Acetone** | **28** | 2.0 | ppbv | **66** | 4.8 | ug/m3 |
| **Carbon Disulfide** | **16** | 0.40 | ppbv | **49** | 1.2 | ug/m3 |
| **Isopropanol (IPA)** | **34** | 2.0 | ppbv | **84** | 4.9 | ug/m3 |
| **Methylene Chloride** | **1.4** | 0.40 | ppbv | **4.8** | 1.4 | ug/m3 |
| trans-1,2-Dichloroethene | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| MTBE | ND | 0.40 | ppbv | ND | 1.4 | ug/m3 |
| **n-Hexane** | **0.79** | 0.40 | ppbv | **2.8** | 1.4 | ug/m3 |
| 1,1-Dichloroethane | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| Vinyl Acetate | ND | 2.0 | ppbv | ND | 7.0 | ug/m3 |
| cis-1,2-Dichloroethene | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| **2-Butanone** | **3.5** | 2.0 | ppbv | **10** | 5.9 | ug/m3 |
| **Chloroform** | **0.54** | 0.40 | ppbv | **2.6** | 2.0 | ug/m3 |
| 1,1,1-Trichloroethane | ND | 0.40 | ppbv | ND | 2.2 | ug/m3 |
| Carbon Tetrachloride | ND | 0.40 | ppbv | ND | 2.5 | ug/m3 |
| **Benzene** | **1.6** | 0.40 | ppbv | **5.0** | 1.3 | ug/m3 |
| 1,2-Dichloroethane | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| Trichloroethene | ND | 0.40 | ppbv | ND | 2.1 | ug/m3 |
| 1,2-Dichloropropane | ND | 0.40 | ppbv | ND | 1.8 | ug/m3 |
| Bromodichloromethane | ND | 0.40 | ppbv | ND | 2.7 | ug/m3 |
| cis-1,3-Dichloropropene | ND | 0.40 | ppbv | ND | 1.8 | ug/m3 |
| 4-Methyl-2-Pentanone | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| **Toluene** | **6.6** | 0.40 | ppbv | **25** | 1.5 | ug/m3 |
| trans-1,3-Dichloropropene | ND | 0.40 | ppbv | ND | 1.8 | ug/m3 |
| 1,1,2-Trichloroethane | ND | 0.40 | ppbv | ND | 2.2 | ug/m3 |
| **Tetrachloroethene** | **0.80** | 0.40 | ppbv | **5.4** | 2.7 | ug/m3 |
| 2-Hexanone | ND | 1.0 | ppbv | ND | 4.1 | ug/m3 |
| Dibromochloromethane | ND | 0.40 | ppbv | ND | 3.4 | ug/m3 |
| 1,2-Dibromoethane | ND | 0.40 | ppbv | ND | 3.1 | ug/m3 |
| Chlorobenzene | ND | 0.40 | ppbv | ND | 1.8 | ug/m3 |
| **Ethylbenzene** | **0.58** | 0.40 | ppbv | **2.5** | 1.7 | ug/m3 |
| **m,p-Xylenes** | **1.3** | 0.80 | ppbv | **5.5** | 3.5 | ug/m3 |
| **o-Xylene** | **0.57** | 0.40 | ppbv | **2.5** | 1.7 | ug/m3 |
| Styrene | ND | 0.40 | ppbv | ND | 1.7 | ug/m3 |
| Bromoform | ND | 0.40 | ppbv | ND | 4.1 | ug/m3 |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | ppbv | ND | 2.7 | ug/m3 |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | ppbv | ND | 2.7 | ug/m3 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| 509527-001 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 4-Ethyltoluene | ND | 0.40 | ppbv | ND | 2.0 | ug/m3 |
| 1,3,5-Trimethylbenzene | ND | 0.40 | ppbv | ND | 2.0 | ug/m3 |
| 1,2,4-Trimethylbenzene | ND | 0.40 | ppbv | ND | 2.0 | ug/m3 |
| 1,3-Dichlorobenzene | ND | 0.40 | ppbv | ND | 2.4 | ug/m3 |
| 1,4-Dichlorobenzene | ND | 0.40 | ppbv | ND | 2.4 | ug/m3 |
| Benzyl chloride | ND | 0.40 | ppbv | ND | 2.1 | ug/m3 |
| 1,2-Dichlorobenzene | ND | 0.40 | ppbv | ND | 2.4 | ug/m3 |
| 1,2,4-Trichlorobenzene | ND | 0.40 | ppbv | ND | 3.0 | ug/m3 |
| Hexachlorobutadiene | ND | 0.40 | ppbv | ND | 4.3 | ug/m3 |
| Naphthalene | ND | 2.0 | ppbv | ND | 10 | ug/m3 |
| **Xylene (total)** | **1.8** | 0.40 | ppbv | **8.0** | 1.7 | ug/m3 |

| 509527-001 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenzene | 103 | 60-140 | ug/m3 |

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-41-5 **Batch#:** 342189 **Prep:** METHOD
**Lab ID:** 509527-002 **Sampled:** 05/30/24 12:02 **Analysis:** EPA TO-15
**Matrix:** Air **Received:** 06/04/24 **Analyst:** MBC
**Diln Fac:** 2.000 **Analyzed:** 06/07/24 16:25

| 509527-002 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 2.0 | ppbv | ND | 5.4 | ug/m3 |
| **Freon 12** | **0.60** | 0.40 | ppbv | **3.0** | 2.0 | ug/m3 |
| Freon 114 | ND | 0.40 | ppbv | ND | 2.8 | ug/m3 |
| Chloromethane | ND | 0.40 | ppbv | ND | 0.83 | ug/m3 |
| Vinyl Chloride | ND | 0.40 | ppbv | ND | 1.0 | ug/m3 |
| Bromomethane | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| Chloroethane | ND | 0.40 | ppbv | ND | 1.1 | ug/m3 |
| Trichlorofluoromethane | ND | 0.40 | ppbv | ND | 2.2 | ug/m3 |
| 1,1-Dichloroethene | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| Freon 113 | ND | 0.40 | ppbv | ND | 3.1 | ug/m3 |
| **Acetone** | **5.9** | 2.0 | ppbv | **14** | 4.8 | ug/m3 |
| **Carbon Disulfide** | **4.3** | 0.40 | ppbv | **13** | 1.2 | ug/m3 |
| Isopropanol (IPA) | ND | 2.0 | ppbv | ND | 4.9 | ug/m3 |
| Methylene Chloride | ND | 0.40 | ppbv | ND | 1.4 | ug/m3 |
| trans-1,2-Dichloroethene | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| MTBE | ND | 0.40 | ppbv | ND | 1.4 | ug/m3 |
| n-Hexane | ND | 0.40 | ppbv | ND | 1.4 | ug/m3 |
| 1,1-Dichloroethane | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| Vinyl Acetate | ND | 2.0 | ppbv | ND | 7.0 | ug/m3 |
| **cis-1,2-Dichloroethene** | **0.42** | 0.40 | ppbv | **1.7** | 1.6 | ug/m3 |
| 2-Butanone | ND | 2.0 | ppbv | ND | 5.9 | ug/m3 |
| **Chloroform** | **1.1** | 0.40 | ppbv | **5.6** | 2.0 | ug/m3 |
| 1,1,1-Trichloroethane | ND | 0.40 | ppbv | ND | 2.2 | ug/m3 |
| Carbon Tetrachloride | ND | 0.40 | ppbv | ND | 2.5 | ug/m3 |
| **Benzene** | **1.3** | 0.40 | ppbv | **4.1** | 1.3 | ug/m3 |
| 1,2-Dichloroethane | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| **Trichloroethene** | **3.2** | 0.40 | ppbv | **17** | 2.1 | ug/m3 |
| 1,2-Dichloropropane | ND | 0.40 | ppbv | ND | 1.8 | ug/m3 |
| Bromodichloromethane | ND | 0.40 | ppbv | ND | 2.7 | ug/m3 |
| cis-1,3-Dichloropropene | ND | 0.40 | ppbv | ND | 1.8 | ug/m3 |
| 4-Methyl-2-Pentanone | ND | 0.40 | ppbv | ND | 1.6 | ug/m3 |
| **Toluene** | **4.5** | 0.40 | ppbv | **17** | 1.5 | ug/m3 |
| trans-1,3-Dichloropropene | ND | 0.40 | ppbv | ND | 1.8 | ug/m3 |
| 1,1,2-Trichloroethane | ND | 0.40 | ppbv | ND | 2.2 | ug/m3 |
| **Tetrachloroethene** | **3.3** | 0.40 | ppbv | **22** | 2.7 | ug/m3 |
| 2-Hexanone | ND | 1.0 | ppbv | ND | 4.1 | ug/m3 |
| Dibromochloromethane | ND | 0.40 | ppbv | ND | 3.4 | ug/m3 |
| 1,2-Dibromoethane | ND | 0.40 | ppbv | ND | 3.1 | ug/m3 |
| Chlorobenzene | ND | 0.40 | ppbv | ND | 1.8 | ug/m3 |
| **Ethylbenzene** | **0.60** | 0.40 | ppbv | **2.6** | 1.7 | ug/m3 |
| **m,p-Xylenes** | **1.4** | 0.80 | ppbv | **5.9** | 3.5 | ug/m3 |
| **o-Xylene** | **0.74** | 0.40 | ppbv | **3.2** | 1.7 | ug/m3 |
| Styrene | ND | 0.40 | ppbv | ND | 1.7 | ug/m3 |
| Bromoform | ND | 0.40 | ppbv | ND | 4.1 | ug/m3 |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | ppbv | ND | 2.7 | ug/m3 |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | ppbv | ND | 2.7 | ug/m3 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| 509527-002 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 4-Ethyltoluene | ND | 0.40 | ppbv | ND | 2.0 | ug/m3 |
| 1,3,5-Trimethylbenzene | ND | 0.40 | ppbv | ND | 2.0 | ug/m3 |
| **1,2,4-Trimethylbenzene** | **0.65** | 0.40 | ppbv | **3.2** | 2.0 | ug/m3 |
| 1,3-Dichlorobenzene | ND | 0.40 | ppbv | ND | 2.4 | ug/m3 |
| 1,4-Dichlorobenzene | ND | 0.40 | ppbv | ND | 2.4 | ug/m3 |
| Benzyl chloride | ND | 0.40 | ppbv | ND | 2.1 | ug/m3 |
| 1,2-Dichlorobenzene | ND | 0.40 | ppbv | ND | 2.4 | ug/m3 |
| 1,2,4-Trichlorobenzene | ND | 0.40 | ppbv | ND | 3.0 | ug/m3 |
| Hexachlorobutadiene | ND | 0.40 | ppbv | ND | 4.3 | ug/m3 |
| Naphthalene | ND | 2.0 | ppbv | ND | 10 | ug/m3 |
| **Xylene (total)** | **2.1** | 0.40 | ppbv | **9.1** | 1.7 | ug/m3 |

| 509527-002 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenzene | 102 | 60-140 | ug/m3 |

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-45-5 **Batch#:** 342189 **Prep:** METHOD
**Lab ID:** 509527-003 **Sampled:** 05/30/24 12:58 **Analysis:** EPA TO-15
**Matrix:** Air **Received:** 06/04/24 **Analyst:** MBC
**Diln Fac:** 2.200 **Analyzed:** 06/07/24 21:52

| 509527-003 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 2.2 | ppbv | ND | 5.9 | ug/m3 |
| Freon 12 | ND | 0.44 | ppbv | ND | 2.2 | ug/m3 |
| Freon 114 | ND | 0.44 | ppbv | ND | 3.1 | ug/m3 |
| Chloromethane | ND | 0.44 | ppbv | ND | 0.91 | ug/m3 |
| **Vinyl Chloride** | **38** | 0.44 | ppbv | **98** | 1.1 | ug/m3 |
| Bromomethane | ND | 0.44 | ppbv | ND | 1.7 | ug/m3 |
| **Chloroethane** | **1.3** | 0.44 | ppbv | **3.4** | 1.2 | ug/m3 |
| Trichlorofluoromethane | ND | 0.44 | ppbv | ND | 2.5 | ug/m3 |
| 1,1-Dichloroethene | ND | 0.44 | ppbv | ND | 1.7 | ug/m3 |
| Freon 113 | ND | 0.44 | ppbv | ND | 3.4 | ug/m3 |
| **Acetone** | **7.7** | 2.2 | ppbv | **18** | 5.2 | ug/m3 |
| **Carbon Disulfide** | **2.8** | 0.44 | ppbv | **8.7** | 1.4 | ug/m3 |
| Isopropanol (IPA) | ND | 2.2 | ppbv | ND | 5.4 | ug/m3 |
| Methylene Chloride | ND | 0.44 | ppbv | ND | 1.5 | ug/m3 |
| trans-1,2-Dichloroethene | ND | 0.44 | ppbv | ND | 1.7 | ug/m3 |
| **MTBE** | **2.6** | 0.44 | ppbv | **9.4** | 1.6 | ug/m3 |
| **n-Hexane** | **56** | 0.44 | ppbv | **200** | 1.6 | ug/m3 |
| **1,1-Dichloroethane** | **1.4** | 0.44 | ppbv | **5.7** | 1.8 | ug/m3 |
| Vinyl Acetate | ND | 2.2 | ppbv | ND | 7.7 | ug/m3 |
| **cis-1,2-Dichloroethene** | **4.5** | 0.44 | ppbv | **18** | 1.7 | ug/m3 |
| **2-Butanone** | **2.3** | 2.2 | ppbv | **6.8** | 6.5 | ug/m3 |
| Chloroform | ND | 0.44 | ppbv | ND | 2.1 | ug/m3 |
| 1,1,1-Trichloroethane | ND | 0.44 | ppbv | ND | 2.4 | ug/m3 |
| Carbon Tetrachloride | ND | 0.44 | ppbv | ND | 2.8 | ug/m3 |
| **Benzene** | **1.9** | 0.44 | ppbv | **6.0** | 1.4 | ug/m3 |
| 1,2-Dichloroethane | ND | 0.44 | ppbv | ND | 1.8 | ug/m3 |
| Trichloroethene | ND | 0.44 | ppbv | ND | 2.4 | ug/m3 |
| 1,2-Dichloropropane | ND | 0.44 | ppbv | ND | 2.0 | ug/m3 |
| Bromodichloromethane | ND | 0.44 | ppbv | ND | 2.9 | ug/m3 |
| cis-1,3-Dichloropropene | ND | 0.44 | ppbv | ND | 2.0 | ug/m3 |
| 4-Methyl-2-Pentanone | ND | 0.44 | ppbv | ND | 1.8 | ug/m3 |
| **Toluene** | **0.98** | 0.44 | ppbv | **3.7** | 1.7 | ug/m3 |
| trans-1,3-Dichloropropene | ND | 0.44 | ppbv | ND | 2.0 | ug/m3 |
| 1,1,2-Trichloroethane | ND | 0.44 | ppbv | ND | 2.4 | ug/m3 |
| **Tetrachloroethene** | **0.75** | 0.44 | ppbv | **5.1** | 3.0 | ug/m3 |
| 2-Hexanone | ND | 1.1 | ppbv | ND | 4.5 | ug/m3 |
| Dibromochloromethane | ND | 0.44 | ppbv | ND | 3.7 | ug/m3 |
| 1,2-Dibromoethane | ND | 0.44 | ppbv | ND | 3.4 | ug/m3 |
| Chlorobenzene | ND | 0.44 | ppbv | ND | 2.0 | ug/m3 |
| Ethylbenzene | ND | 0.44 | ppbv | ND | 1.9 | ug/m3 |
| m,p-Xylenes | ND | 0.88 | ppbv | ND | 3.8 | ug/m3 |
| o-Xylene | ND | 0.44 | ppbv | ND | 1.9 | ug/m3 |
| Styrene | ND | 0.44 | ppbv | ND | 1.9 | ug/m3 |
| Bromoform | ND | 0.44 | ppbv | ND | 4.5 | ug/m3 |
| 1,1,2,2-Tetrachloroethane | ND | 0.44 | ppbv | ND | 3.0 | ug/m3 |
| 1,1,1,2-Tetrachloroethane | ND | 0.44 | ppbv | ND | 3.0 | ug/m3 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| 509527-003 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 4-Ethyltoluene | ND | 0.44 | ppbv | ND | 2.2 | ug/m3 |
| 1,3,5-Trimethylbenzene | ND | 0.44 | ppbv | ND | 2.2 | ug/m3 |
| 1,2,4-Trimethylbenzene | ND | 0.44 | ppbv | ND | 2.2 | ug/m3 |
| 1,3-Dichlorobenzene | ND | 0.44 | ppbv | ND | 2.6 | ug/m3 |
| 1,4-Dichlorobenzene | ND | 0.44 | ppbv | ND | 2.6 | ug/m3 |
| Benzyl chloride | ND | 0.44 | ppbv | ND | 2.3 | ug/m3 |
| 1,2-Dichlorobenzene | ND | 0.44 | ppbv | ND | 2.6 | ug/m3 |
| 1,2,4-Trichlorobenzene | ND | 0.44 | ppbv | ND | 3.3 | ug/m3 |
| Hexachlorobutadiene | ND | 0.44 | ppbv | ND | 4.7 | ug/m3 |
| Naphthalene | ND | 2.2 | ppbv | ND | 12 | ug/m3 |
| Xylene (total) | ND | 0.44 | ppbv | ND | 1.9 | ug/m3 |

| 509527-003 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenzene | 104 | 60-140 | ug/m3 |

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

ENTHALPY ANALYTICAL

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 409427 **Project#:** 1795.0050S000

**Client:** Roux A( ( osiate( **Location:** AB&) Founl rc

| | | | | | |
|---|---|---|---|---|---|
| **Field ID:** | SVP-45-4 | **Batch#:** | 532189 | **Prep:** | METHOD |
| **Lab ID:** | 409427-003 | **Sampled:** | 04/50/23 13:18 | **Analysis:** | EPA TO-14 |
| **Matrix:** | Air | **Received:** | 06/03/23 | **Analyst:** | MBC |
| **Diln Fac:** | 30.00 | **Analyzed:** | 06/08/23 00:32 | | |

| 509527-004 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 30 | ppbv | ND | 110 | ug/m5 |
| Freon 12 | ND | 8.0 | ppbv | ND | 30 | ug/m5 |
| Freon 113 | ND | 8.0 | ppbv | ND | 46 | ug/m5 |
| Chloromethane | ND | 8.0 | ppbv | ND | 17 | ug/m5 |
| Vincl Chloril e | ND | 8.0 | ppbv | ND | 20 | ug/m5 |
| Bromomethane | ND | 8.0 | ppbv | ND | 51 | ug/m5 |
| Chloroethane | ND | 8.0 | ppbv | ND | 21 | ug/m5 |
| Trishlorofluoromethane | ND | 8.0 | ppbv | ND | 34 | ug/m5 |
| 1,1-Dishloroethene | ND | 8.0 | ppbv | ND | 52 | ug/m5 |
| Freon 115 | ND | 8.0 | ppbv | ND | 61 | ug/m5 |
| Asetone | ND | 30 | ppbv | ND | 94 | ug/m5 |
| Carbon Di( ulfil e | ND | 8.0 | ppbv | ND | 24 | ug/m5 |
| )( opropanol y)PAd | ND | 30 | ppbv | ND | 98 | ug/m5 |
| Methclene Chloril e | ND | 8.0 | ppbv | ND | 28 | ug/m5 |
| tran( -1,2-Dishloroethene | ND | 8.0 | ppbv | ND | 52 | ug/m5 |
| MTBE | ND | 8.0 | ppbv | ND | 29 | ug/m5 |
| **n-Hexane** | **1,700** | 8.0 | ppbv | **5,900** | 28 | ug/m5 |
| **1,1-Dichloroethane** | **10** | 8.0 | ppbv | **41** | 52 | ug/m5 |
| Vincl Asetate | ND | 30 | ppbv | ND | 130 | ug/m5 |
| si( -1,2-Dishloroethene | ND | 8.0 | ppbv | ND | 52 | ug/m5 |
| 2-Butanone | ND | 30 | ppbv | ND | 120 | ug/m5 |
| Chloroform | ND | 8.0 | ppbv | ND | 59 | ug/m5 |
| 1,1,1-Trishloroethane | ND | 8.0 | ppbv | ND | 33 | ug/m5 |
| Carbon Tetrashloril e | ND | 8.0 | ppbv | ND | 40 | ug/m5 |
| **Benzene** | **9.3** | 8.0 | ppbv | **30** | 26 | ug/m5 |
| 1,2-Dishloroethane | ND | 8.0 | ppbv | ND | 52 | ug/m5 |
| Trishloroethene | ND | 8.0 | ppbv | ND | 35 | ug/m5 |
| 1,2-Dishloropropane | ND | 8.0 | ppbv | ND | 57 | ug/m5 |
| Bromol ishloromethane | ND | 8.0 | ppbv | ND | 43 | ug/m5 |
| si( -1,5-Dishloropropene | ND | 8.0 | ppbv | ND | 56 | ug/m5 |
| 3-Methcl-2-Pentanone | ND | 8.0 | ppbv | ND | 55 | ug/m5 |
| **Toluene** | **15** | 8.0 | ppbv | **57** | 50 | ug/m5 |
| tran( -1,5-Dishloropropene | ND | 8.0 | ppbv | ND | 56 | ug/m5 |
| 1,1,2-Trishloroethane | ND | 8.0 | ppbv | ND | 33 | ug/m5 |
| Tetrashloroethene | ND | 8.0 | ppbv | ND | 43 | ug/m5 |
| 2-Hexanone | ND | 20 | ppbv | ND | 82 | ug/m5 |
| Dibromoshloromethane | ND | 8.0 | ppbv | ND | 68 | ug/m5 |
| 1,2-Dibromoethane | ND | 8.0 | ppbv | ND | 61 | ug/m5 |
| Chlorobenzene | ND | 8.0 | ppbv | ND | 57 | ug/m5 |
| **Ethylbenzene** | **8.2** | 8.0 | ppbv | **35** | 54 | ug/m5 |
| m,p-Xclene( | ND | 16 | ppbv | ND | 69 | ug/m5 |
| o-Xclene | ND | 8.0 | ppbv | ND | 54 | ug/m5 |
| Stcrene | ND | 8.0 | ppbv | ND | 53 | ug/m5 |
| Bromoform | ND | 8.0 | ppbv | ND | 85 | ug/m5 |
| 1,1,2,2-Tetrashloroethane | ND | 8.0 | ppbv | ND | 44 | ug/m5 |
| 1,1,1,2-Tetrashloroethane | ND | 8.0 | ppbv | ND | 44 | ug/m5 |

ENTHALPY ANALYTICAL

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 409427 **Project#:** 1795.0050S000

**Client:** Roux A( ( osiate( **Location:** AB&) Founl rc

| 509527-004 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 3-Ethcltoluene | ND | 8.0 | ppbv | ND | 59 | ug/m5 |
| **1,3,5-Trimethylbenzene** | **12** | 8.0 | ppbv | **57** | 59 | ug/m5 |
| **1,2,4-Trimethylbenzene** | **9.4** | 8.0 | ppbv | **46** | 59 | ug/m5 |
| 1,5-Dishlorobenzene | ND | 8.0 | ppbv | ND | 38 | ug/m5 |
| 1,3-Dishlorobenzene | ND | 8.0 | ppbv | ND | 38 | ug/m5 |
| Benzcl shloril e | ND | 8.0 | ppbv | ND | 31 | ug/m5 |
| 1,2-Dishlorobenzene | ND | 8.0 | ppbv | ND | 38 | ug/m5 |
| 1,2,3-Trishlorobenzene | ND | 8.0 | ppbv | ND | 49 | ug/m5 |
| Hexashlorobutal iene | ND | 8.0 | ppbv | ND | 84 | ug/m5 |
| Naphthalene | ND | 30 | ppbv | ND | 210 | ug/m5 |
| Xclene ytotald | ND | 8.0 | ppbv | ND | 54 | ug/m5 |

| 509527-004 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenzene | 112 | 60-130 | ug/m5 |

Legenl

**ND:** Not Detestel

**RL (V):** Reporting Limit

**Result (M):** Re( ult in ma( ( unit(

**Result (V):** Re( ult in volume unit(

ENTHALPY ANALYTICAL

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 409417 **Project#:** 8795.0050S000

**Client:** x ou) A( ( osiate( **Location:** ABz XFounl rc

**Field ID:** SVP-45-3 **Batch#:** 521839 **Prep:** METHOD

**Lab ID:** 409417-004 **Sampled:** 04/50/12 84:41 **Analysis:** EPA TO-84

**Matrix:** Air **Received:** 06/02/12 **Analyst:** MBC

**Diln Fac:** 4.400 **Analyzed:** 06/03/12 09:17

| 509527-005 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 8,8-Difluoroethane | ND | 4.4 | ppbv | ND | 84 | ug/m5 |
| Freon 81 | ND | 8.8 | ppbv | ND | 4.2 | ug/m5 |
| Freon 882 | ND | 8.8 | ppbv | ND | 7.7 | ug/m5 |
| Chloromethane | ND | 8.8 | ppbv | ND | 1.5 | ug/m5 |
| Vincl Chloril e | ND | 8.8 | ppbv | ND | 1.3 | ug/m5 |
| Bromomethane | ND | 8.8 | ppbv | ND | 2.5 | ug/m5 |
| Chloroethane | ND | 8.8 | ppbv | ND | 1.9 | ug/m5 |
| Trishlorofluoromethane | ND | 8.8 | ppbv | ND | 6.1 | ug/m5 |
| 8,8-Dishloroethene | ND | 8.8 | ppbv | ND | 2.2 | ug/m5 |
| Freon 885 | ND | 8.8 | ppbv | ND | 3.2 | ug/m5 |
| **Acetone** | **9.3** | 4.4 | ppbv | **22** | 85 | ug/m5 |
| **Carbon Disulfide** | **30** | 8.8 | ppbv | **92** | 5.2 | ug/m5 |
| **Isopropanol (IPA)** | **5.7** | 4.4 | ppbv | **14** | 82 | ug/m5 |
| Methclene Chloril e | ND | 8.8 | ppbv | ND | 5.3 | ug/m5 |
| tran( -8,1-Dishloroethene | ND | 8.8 | ppbv | ND | 2.2 | ug/m5 |
| MTBE | ND | 8.8 | ppbv | ND | 2.0 | ug/m5 |
| **n-Hexane** | **250** | 8.8 | ppbv | **900** | 5.9 | ug/m5 |
| 8,8-Dishloroethane | ND | 8.8 | ppbv | ND | 2.4 | ug/m5 |
| Vincl Asetate | ND | 4.4 | ppbv | ND | 89 | ug/m5 |
| si( -8,1-Dishloroethene | ND | 8.8 | ppbv | ND | 2.2 | ug/m5 |
| 1-Butanone | ND | 4.4 | ppbv | ND | 86 | ug/m5 |
| Chloroform | ND | 8.8 | ppbv | ND | 4.2 | ug/m5 |
| 8,8,8-Trishloroethane | ND | 8.8 | ppbv | ND | 6.0 | ug/m5 |
| Carbon Tetrashloril e | ND | 8.8 | ppbv | ND | 6.9 | ug/m5 |
| **Benzene** | **3.8** | 8.8 | ppbv | **12** | 5.4 | ug/m5 |
| 8,1-Dishloroethane | ND | 8.8 | ppbv | ND | 2.4 | ug/m5 |
| Trishloroethene | ND | 8.8 | ppbv | ND | 4.9 | ug/m5 |
| 8,1-Dishloropropane | ND | 8.8 | ppbv | ND | 4.8 | ug/m5 |
| Bromol ishloromethane | ND | 8.8 | ppbv | ND | 7.2 | ug/m5 |
| si( -8,5-Dishloropropene | ND | 8.8 | ppbv | ND | 4.0 | ug/m5 |
| 2-Methcl-1-Pentanone | ND | 8.8 | ppbv | ND | 2.4 | ug/m5 |
| **Toluene** | **4.5** | 8.8 | ppbv | **17** | 2.8 | ug/m5 |
| tran( -8,5-Dishloropropene | ND | 8.8 | ppbv | ND | 4.0 | ug/m5 |
| 8,8,1-Trishloroethane | ND | 8.8 | ppbv | ND | 6.0 | ug/m5 |
| Tetrashloroethene | ND | 8.8 | ppbv | ND | 7.4 | ug/m5 |
| 1-He) anone | ND | 1.3 | ppbv | ND | 88 | ug/m5 |
| Dibromoshloromethane | ND | 8.8 | ppbv | ND | 9.2 | ug/m5 |
| 8,1-Dibromoethane | ND | 8.8 | ppbv | ND | 3.4 | ug/m5 |
| Chlorobenyene | ND | 8.8 | ppbv | ND | 4.8 | ug/m5 |
| Ethclbenyene | ND | 8.8 | ppbv | ND | 2.3 | ug/m5 |
| m,p-dclene( | ND | 1.1 | ppbv | ND | 9.6 | ug/m5 |
| o-dclene | ND | 8.8 | ppbv | ND | 2.3 | ug/m5 |
| Stcrene | ND | 8.8 | ppbv | ND | 2.7 | ug/m5 |
| Bromoform | ND | 8.8 | ppbv | ND | 88 | ug/m5 |
| 8,8,1,1-Tetrashloroethane | ND | 8.8 | ppbv | ND | 7.6 | ug/m5 |
| 8,8,8,1-Tetrashloroethane | ND | 8.8 | ppbv | ND | 7.6 | ug/m5 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 409417 **Project#:** 8795.0050S000

**Client:** x ou) A( ( osiate( **Location:** ABz XFounI rc

| 509527-005 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 2-Ethcltoluene | ND | 8.8 | ppbv | ND | 4.2 | ug/m5 |
| 8,5,4-Trimethclbenyene | ND | 8.8 | ppbv | ND | 4.2 | ug/m5 |
| 8,1,2-Trimethclbenyene | ND | 8.8 | ppbv | ND | 4.2 | ug/m5 |
| 8,5-Dishlorobenyene | ND | 8.8 | ppbv | ND | 6.6 | ug/m5 |
| 8,2-Dishlorobenyene | ND | 8.8 | ppbv | ND | 6.6 | ug/m5 |
| Benycl shloril e | ND | 8.8 | ppbv | ND | 4.7 | ug/m5 |
| 8,1-Dishlorobenyene | ND | 8.8 | ppbv | ND | 6.6 | ug/m5 |
| 8,1,2-Trishlorobenyene | ND | 8.8 | ppbv | ND | 3.1 | ug/m5 |
| He) ashlorobutal iene | ND | 8.8 | ppbv | ND | 81 | ug/m5 |
| Naphthalene | ND | 4.4 | ppbv | ND | 19 | ug/m5 |
| dclene Rtotal& | ND | 8.8 | ppbv | ND | 2.3 | ug/m5 |

| 509527-005 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenyene | 806 | 60-820 | ug/m5 |

Legenl

**ND:** Not Detestel

**RL (V):** x eporting Limit

**Result (M):** x e( ult in ma( ( unit(

**Result (V):** x e( ult in volume unit(

# , nthalpy Analytical - Orange Analytical Report

| | | | |
|---|---|---|---|
| **Lab #:** 84789/ | | **Project#:** M/ 73.4434S444 | |
| **3 lient:** z ouRi ssocrates | | **Location:** i B&I:Found6y | |
| **Field ID:** SVP-41-8 | **Batch#:** 329ME3 | **Prep:** T HCD5 0 | |
| **Lab ID:** 84789/ -441 | **Sampled:** 48 3M92:47A88 | **Analysis:** HPi :C5 -M8 | |
| **Matrix:** i r6 | **Received:** 41 42 92 | **Analyst:** T BC | |
| **Diln Fac:** 9.M44 | **Analyzed:** 41 4/ 92:93A87 | | |

| 509527-001 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| M,M40 rfluo6oethane | N0 | 9.M | ppbv | N0 | 8./ | ug m3 |
| F6eon:M9 | N0 | 4.29 | ppbv | N0 | 9.M | ug m3 |
| F6eon:MM2 | N0 | 4.29 | ppbv | N0 | 9.7 | ug m3 |
| Chlo6omethane | N0 | 4.29 | ppbv | N0 | 4.E/ | ug m3 |
| Vmyl:Chlo6de | N0 | 4.29 | ppbv | N0 | MM | ug m3 |
| B6omomethane | N0 | 4.29 | ppbv | N0 | M1 | ug m3 |
| Chlo6oethane | N0 | 4.29 | ppbv | N0 | MM | ug m3 |
| C8chlo6ofluo6omethane | N0 | 4.29 | ppbv | N0 | 9.2 | ug m3 |
| M,M40 rchlo6oethene | N0 | 4.29 | ppbv | N0 | M/ | ug m3 |
| F6eon:MM8 | N0 | 4.29 | ppbv | N0 | 3.9 | ug m3 |
| **Acetone** | **57** | 9.M | ppbv | **. C0** | 8.4 | ug m3 |
| **3 arbon Disul8de** | **22** | 4.29 | ppbv | **17** | M3 | ug m3 |
| **Isopropanol (IPA)** | **C2** | 9.M | ppbv | **79** | 8.9 | ug m3 |
| **Methylene 3 hloride** | **06f 7** | 4.29 | ppbv | **. 6l** | M8 | ug m3 |
| t6ans-M,9-0 rchlo6oethene | N0 | 4.29 | ppbv | N0 | M/ | ug m3 |
| T OBH | N0 | 4.29 | ppbv | N0 | M8 | ug m3 |
| **n-4 exane** | **52** | 4.29 | ppbv | **. H0** | M8 | ug m3 |
| M,M40 rchlo6oethane | N0 | 4.29 | ppbv | N0 | M/ | ug m3 |
| Vmyl:i cetate | N0 | 9.M | ppbv | N0 | / .2 | ug m3 |
| **cis-. T2-Dichloroethene** | **0670** | 4.29 | ppbv | **26H** | M/ | ug m3 |
| **2-Butanone** | **. 5** | 9.M | ppbv | **f 5** | 1.9 | ug m3 |
| **3 hloro8orm** | **. 62** | 4.29 | ppbv | **56H** | 9.M | ug m3 |
| M,M4C8chlo6oethane | N0 | 4.29 | ppbv | N0 | 9.3 | ug m3 |
| Ca6bon:Cet6achlo6de | N0 | 4.29 | ppbv | N0 | 9.1 | ug m3 |
| **Benzene** | **16H** | 4.29 | ppbv | **22** | M3 | ug m3 |
| M,9-0 rchlo6oethane | N0 | 4.29 | ppbv | N0 | M/ | ug m3 |
| C8chlo6oethene | N0 | 4.29 | ppbv | N0 | 9.3 | ug m3 |
| M,9-0 rchlo6op6opane | N0 | 4.29 | ppbv | N0 | M7 | ug m3 |
| B6omodrchlo6omethane | N0 | 4.29 | ppbv | N0 | 9.E | ug m3 |
| crs-M,3-0 rchlo6op6opene | N0 | 4.29 | ppbv | N0 | M7 | ug m3 |
| **f -Methyl-2-Pentanone** | **. 6l** | 4.29 | ppbv | **165** | M/ | ug m3 |
| **Eoluene** | **565** | 4.29 | ppbv | **2.** | M1 | ug m3 |
| t6ans-M,3-0 rchlo6op6opene | N0 | 4.29 | ppbv | N0 | M7 | ug m3 |
| M,M9-C8chlo6oethane | N0 | 4.29 | ppbv | N0 | 9.3 | ug m3 |
| **Eetrachloroethene** | **069C** | 4.29 | ppbv | **16C** | 9.E | ug m3 |
| **2-4 exanone** | **. 6H** | MM | ppbv | **762** | 2.3 | ug m3 |
| 0 rb6omochlo6omethane | N0 | 4.29 | ppbv | N0 | 3.1 | ug m3 |
| M,9-0 rb6omoethane | N0 | 4.29 | ppbv | N0 | 3.9 | ug m3 |
| Chlo6obenxene | N0 | 4.29 | ppbv | N0 | M7 | ug m3 |
| **, thylbenzene** | **06f 1** | 4.29 | ppbv | **260** | ME | ug m3 |
| **mTp-Xylenes** | **. 6** | 4.E2 | ppbv | **f 69** | 3.1 | ug m3 |
| **o-Xylene** | **06f C** | 4.29 | ppbv | **. 6H** | ME | ug m3 |
| Sty6ene | N0 | 4.29 | ppbv | N0 | ME | ug m3 |
| B6omofo6m | N0 | 4.29 | ppbv | N0 | 2.3 | ug m3 |
| M,M9,9-C6et6achlo6oethane | N0 | 4.29 | ppbv | N0 | 9.7 | ug m3 |
| M,M,M9-C6et6achlo6oethane | N0 | 4.29 | ppbv | N0 | 9.7 | ug m3 |

ENTHALPY ANALYTICAL

# , nthalpy Analytical - Orange Analytical Report

**Lab #:** 84789/ **Project#:** M/ 73.4434S444

**3 lient:** z ouRi ssocrates **Location:** i B&I:Found6y

| 509527-001 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 2-Hthyltoluene | N0 | 4.29 | ppbv | N0 | 9.M | ug m3 |
| M,3,8-C6methylbenxene | N0 | 4.29 | ppbv | N0 | 9.M | ug m3 |
| M,9,2-C6methylbenxene | N0 | 4.29 | ppbv | N0 | 9.M | ug m3 |
| M,3-0 rchlo6obenxene | N0 | 4.29 | ppbv | N0 | 9.8 | ug m3 |
| M,2-0 rchlo6obenxene | N0 | 4.29 | ppbv | N0 | 9.8 | ug m3 |
| Benxyl:chlo6rde | N0 | 4.29 | ppbv | N0 | 9.9 | ug m3 |
| M,9-0 rchlo6obenxene | N0 | 4.29 | ppbv | N0 | 9.8 | ug m3 |
| M,9,2-C6chlo6obenxene | N0 | 4.29 | ppbv | N0 | 3.M | ug m3 |
| DeFachlo6obutadrene | N0 | 4.29 | ppbv | N0 | 2.8 | ug m3 |
| Naphthalene | N0 | 9.M | ppbv | N0 | MM | ug m3 |
| **Xylene (total)** | **. 6l** | 4.29 | ppbv | **16?** | ME | ug m3 |

| 509527-001 Surrogate | %R, 3 | Limits | Units (M) |
|---|---|---|---|
| B6omofluo6obenxene | M48 | 14-M24 | ug m3 |

Legend

**ND:** Not:0 etected

**RL (V):** z epo8img:Lmrt

**Result (M):** z esult:m:mass:unrts

**Result (V):** z esult:m:volume:unrts

ENTHALPY ANALYTICAL

# , nthalpy Analytical - Orange Analytical RepUrt

**Lab #:** 04709/ **PrUject#:** M/ 73.4434S444

**Client:** Roux:i ssocrates **LUcatiUn:** i B&I:Found6y

**Field ID:** SVP-41-8 **Batch#:** 329M83 **Prep:** E THOD5

**Lab ID:** 04709/ -44/ **Sampled:** 40 3M92:M4A29 **Analysis:** TPi :HD-M0

**Matrix:** i r6 **Received:** 41 42 92 **Analyst:** E BC

**Diln Fac:** 9.444 **Analyzed:** 41 48 92:44A27

| 509527-007 Analyte | Res1lt u( V | RL u( V | ) nits u( V | Res1lt uMV | RL uMV | ) nits uMV |
|---|---|---|---|---|---|---|
| M,M-5 rfluo6oethane | N5 | 9.4 | ppbv | N5 | 0.2 | ug m3 |
| F6eon:M9 | N5 | 4.24 | ppbv | N5 | 9.4 | ug m3 |
| F6eon:MM2 | N5 | 4.24 | ppbv | N5 | 9.8 | ug m3 |
| Chlo6omethane | N5 | 4.24 | ppbv | N5 | 4.83 | ug m3 |
| Vmyl:Chlo6de | N5 | 4.24 | ppbv | N5 | M4 | ug m3 |
| B6omomethane | N5 | 4.24 | ppbv | N5 | M1 | ug m3 |
| Chlo6oethane | N5 | 4.24 | ppbv | N5 | MM | ug m3 |
| H6chlo6ofluo6omethane | N5 | 4.24 | ppbv | N5 | 9.9 | ug m3 |
| M,M-5 rchlo6oethene | N5 | 4.24 | ppbv | N5 | M1 | ug m3 |
| F6eon:MM3 | N5 | 4.24 | ppbv | N5 | 3.M | ug m3 |
| **AcetUne** | **o2** | 9.4 | ppbv | **. 50** | 2.8 | ug m3 |
| **CarbUn Dis1l3de** | **58** | 4.24 | ppbv | **. 70** | M9 | ug m3 |
| **IsUprUpanUl udPAV** | **6f2** | 9.4 | ppbv | **7f9** | 2.7 | ug m3 |
| E ethylene:Chlo6de | N5 | 4.24 | ppbv | N5 | M2 | ug m3 |
| t6ans-M,9-5 rchlo6oethene | N5 | 4.24 | ppbv | N5 | M1 | ug m3 |
| E HBT | N5 | 4.24 | ppbv | N5 | M2 | ug m3 |
| **n-4 exane** | **56** | 4.24 | ppbv | **. 90** | M2 | ug m3 |
| M,M-5 rchlo6oethane | N5 | 4.24 | ppbv | N5 | M1 | ug m3 |
| Vmyl:i cetate | N5 | 9.4 | ppbv | N5 | / .4 | ug m3 |
| **cis-. l2-DichlUrUethene** | **0f70** | 4.24 | ppbv | **2fT** | M1 | ug m3 |
| **2-B1tanUne** | **9f7** | 9.4 | ppbv | **29** | 0.7 | ug m3 |
| **ChlUrU3Urm** | **2f.** | 4.24 | ppbv | **. 0** | 9.4 | ug m3 |
| M,M,M-H6chlo6oethane | N5 | 4.24 | ppbv | N5 | 9.9 | ug m3 |
| Ca6bon:Het6achlo6de | N5 | 4.24 | ppbv | N5 | 9.0 | ug m3 |
| **Benzene** | **8f8** | 4.24 | ppbv | **. 8** | M3 | ug m3 |
| M,9-5 rchlo6oethane | N5 | 4.24 | ppbv | N5 | M1 | ug m3 |
| **ErichlUrUethene** | **0f85** | 4.24 | ppbv | **2f8** | 9.M | ug m3 |
| M,9-5 rchlo6op6opane | N5 | 4.24 | ppbv | N5 | M8 | ug m3 |
| B6omodrchlo6omethane | N5 | 4.24 | ppbv | N5 | 9./ | ug m3 |
| cis-M,3-5 rchlo6op6opene | N5 | 4.24 | ppbv | N5 | M8 | ug m3 |
| **8-Methyl-2-PentanUne** | **0f7o** | 4.24 | ppbv | **6f.** | M1 | ug m3 |
| **EUl1ene** | **. 6** | 4.24 | ppbv | **50** | M0 | ug m3 |
| t6ans-M,3-5 rchlo6op6opene | N5 | 4.24 | ppbv | N5 | M8 | ug m3 |
| M,M,9-H6chlo6oethane | N5 | 4.24 | ppbv | N5 | 9.9 | ug m3 |
| **EetrachlUrUethene** | **0fo0** | 4.24 | ppbv | **8f.** | 9./ | ug m3 |
| 9-Oexanone | N5 | M4 | ppbv | N5 | 2.M | ug m3 |
| 5 rb6omochlo6omethane | N5 | 4.24 | ppbv | N5 | 3.2 | ug m3 |
| M,9-5 rb6omoethane | N5 | 4.24 | ppbv | N5 | 3.M | ug m3 |
| Chlo6obenzene | N5 | 4.24 | ppbv | N5 | M8 | ug m3 |
| **, thylbenzene** | **0fo7** | 4.24 | ppbv | **2f9** | M/ | ug m3 |
| **mlp-Xylenes** | **2f.** | 4.84 | ppbv | **9f2** | 3.0 | ug m3 |
| **U-Xylene** | **0f70** | 4.24 | ppbv | **6f0** | M/ | ug m3 |
| Sty6ene | N5 | 4.24 | ppbv | N5 | M/ | ug m3 |
| B6omofo6m | N5 | 4.24 | ppbv | N5 | 2.M | ug m3 |
| M,M,9,-Het6achlo6oethane | N5 | 4.24 | ppbv | N5 | 9./ | ug m3 |
| M,M,M,9-Het6achlo6oethane | N5 | 4.24 | ppbv | N5 | 9./ | ug m3 |

ENTHALPY ANALYTICAL

# , nthalpy Analytical - Orange Analytical RepUrt

**Lab #:** 04709/ **PrUject#:** M/ 73.4434S444

**Client:** Roux:i ssocrates **LUcatiUn:** i B&I:Found6y

| 509527-007 Analyte | Res1lt u( V | RL u( V | ) nits u( V | Res1lt uMV | RL uMV | ) nits uMV |
|---|---|---|---|---|---|---|
| 2-Tthyltoluene | N5 | 4.24 | ppbv | N5 | 9.4 | ug m3 |
| M,3,0-H6methylbenzene | N5 | 4.24 | ppbv | N5 | 9.4 | ug m3 |
| M,9,2-H6methylbenzene | N5 | 4.24 | ppbv | N5 | 9.4 | ug m3 |
| M,3-5 rchlo6obenzene | N5 | 4.24 | ppbv | N5 | 9.2 | ug m3 |
| M,2-5 rchlo6obenzene | N5 | 4.24 | ppbv | N5 | 9.2 | ug m3 |
| Benzyl:chlo6ride | N5 | 4.24 | ppbv | N5 | 9.M | ug m3 |
| M,9-5 rchlo6obenzene | N5 | 4.24 | ppbv | N5 | 9.2 | ug m3 |
| M,9,2-H6chlo6obenzene | N5 | 4.24 | ppbv | N5 | 3.4 | ug m3 |
| Oexachlo6obutadrene | N5 | 4.24 | ppbv | N5 | 2.3 | ug m3 |
| Naphthalene | N5 | 9.4 | ppbv | N5 | M4 | ug m3 |
| **Xylene utUtalV** | **2fT** | 4.24 | ppbv | **. 2** | M/ | ug m3 |

| 509527-007 S1rrUgate | %R, C | Limits | ) nits uMV |
|---|---|---|---|
| B6omofluo6obenzene | M4/ | 14-M24 | ug m3 |

Legend

**ND:** Not:5etected

**RL u( V** Repo6mg:Lmrt

**Res1lt uMV** Result:m:mass:unrts

**Res1lt u( V** Result:m:volume:unrts

ENTHALPY ANALYTICAL

# , nthalpy Analytical 7Orange Analytical Report

**Lab #:** 10M147 **Project#:** 97M3N0030S000

**8lient:** Rul x i ssucrheos **Location:** i B&I Ful ad6y

**Field ID:** SVP-41-8 **Batch#:** 32498M **Prep:** ETHOD5

**Lab ID:** 10M147-008 **Sampled:** 01/39/42 9:A10 **Analysis:** TPi HD-91

**Matrix:** i r6 **Received:** 0:/02/42 **Analyst:** EBC

| z50z92755- Analyte | Res1lt u( V | RL u( V ) | nits u( V | Res1lt uMV | RL uMV ) | nits uMV | Diln Fac | AnalyUed |
|---|---|---|---|---|---|---|---|---|
| 9.9-5r,fl u6uoet hao | n5 | 4N9 | ppbv | n5 | 1N7 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **Freon .9** | **5G30** | 0N24 | ppbv | **9G3** | 4N9 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| F6oua 992 | n5 | 0N24 | ppbv | n5 | 4NM | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **8hloromethane** | **56G2** | 0N24 | ppbv | **.G** | 0N87 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| Vrayf Ct fu6do | n5 | 0N24 | ppbv | n5 | 9N9 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| B6umumoet hao | n5 | 0N24 | ppbv | n5 | 9N | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **8hloroethane** | **60** | 0N24 | ppbv | **.-** | 9N9 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| H6ct fu6u,fl u6umoet hao | n5 | 0N24 | ppbv | n5 | 4N2 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.9-5rct fu6uoet oao | n5 | 0N24 | ppbv | n5 | 9N7 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| F6oua 993 | n5 | 0N24 | ppbv | n5 | 3N4 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **Acetone** | **9.** | 4N9 | ppbv | **z5** | 1N0 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **8arbon Dis1lfide** | **9.** | 0N24 | ppbv | **6z** | 9N3 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **Isopropanol uPAV** | **-G** | 4N9 | ppbv | **95** | 1N4 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **Methylene 8hloride** | **5G20** | 0N24 | ppbv | **9G** | 9N | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **trans7.497Dichloroethene** | **2G** | 0N24 | ppbv | **90** | 9N7 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| EHBT | n5 | 0N24 | ppbv | n5 | 9N | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **n7Hexane** | **9.** | 0N24 | ppbv | **2T** | 9N | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **.47Dichloroethane** | **9GT** | 0N24 | ppbv | **0GT** | 9N7 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| Vrayf i coehao | n5 | 4N9 | ppbv | n5 | 7N2 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **cis7.497Dichloroethene** | **9.** | 0N24 | ppbv | **-z** | 9N7 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **97B1tanone** | **6G** | 4N9 | ppbv | **.0** | :N4 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **8hloroform** | **.G** | 0N24 | ppbv | **0G** | 4N9 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.9.9-H6ct fu6uoet hao | n5 | 0N24 | ppbv | n5 | 4N3 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| Ch6oua Hoe6hct fu6do | n5 | 0N24 | ppbv | n5 | 4N | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **BenUene** | **.G2** | 0N24 | ppbv | **3G2** | 9N3 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.4-5rct fu6uoet hao | n5 | 0N24 | ppbv | n5 | 9N7 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **Erichloroethene** | **32** | 0N24 | ppbv | **9z5** | 4N3 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.4-5rct fu6up6uphao | n5 | 0N24 | ppbv | n5 | 9NM | l g/m3 | 4N900 | 0:/07/42 43A44 |
| B6umudrct fu6umoet hao | n5 | 0N24 | ppbv | n5 | 4N8 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| crs-9.3-5rct fu6up6upoao | n5 | 0N24 | ppbv | n5 | 9NM | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **37Methyl797Pentanone** | **.G** | 0N24 | ppbv | **2G** | 9N7 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **Eol1ene** | **3G2** | 0N24 | ppbv | **.2** | 9N | l g/m3 | 4N900 | 0:/07/42 43A44 |
| e6has-9.3-5rct fu6up6upoao | n5 | 0N24 | ppbv | n5 | 9NM | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.9.4-H6ct fu6uoet hao | n5 | 0N24 | ppbv | n5 | 4N3 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **Eetrachloroethene** | **.65** | 9N9 | ppbv | **.455** | 7N9 | l g/m3 | 1N410 | 0:/08/42 90A99 |
| 4-Ooxhauao | n5 | 9N9 | ppbv | n5 | 2N3 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 5rb6umuct fu6umoet hao | n5 | 0N24 | ppbv | n5 | 3N | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.4-5rb6umuoet hao | n5 | 0N24 | ppbv | n5 | 3N4 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| Ct fu6uboazoao | n5 | 0N24 | ppbv | n5 | 9NM | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **, thylbenUene** | **5G-** | 0N24 | ppbv | **9C** | 9N8 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **m4p7Xylenes** | **.G** | 0N82 | ppbv | **-G** | 3N | l g/m3 | 4N900 | 0:/07/42 43A44 |
| **o7Xylene** | **52-** | 0N24 | ppbv | **TG** | 9N8 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| Sey6oao | n5 | 0N24 | ppbv | n5 | 9N8 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| B6umu,u6m | n5 | 0N24 | ppbv | n5 | 2N3 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.9.4.4-Hoe6hct fu6uoet hao | n5 | 0N24 | ppbv | n5 | 4NM | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.9.9.4-Hoe6hct fu6uoet hao | n5 | 0N24 | ppbv | n5 | 4NM | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 2-Tet yfeufl oao | n5 | 0N24 | ppbv | n5 | 4N9 | l g/m3 | 4N900 | 0:/07/42 43A44 |
| 9.3.1-H6moet yfboazoao | n5 | 0N24 | ppbv | n5 | 4N9 | l g/m3 | 4N900 | 0:/07/42 43A44 |

ENTHALPY ANALYTICAL

# , nthalpy Analytical 7Orange Analytical Report

**Lab #:** 10M147 **Project#:** 97M3N0030S000

**8lient:** Rul x i ssucrheos **Location:** i B&l Ful ad6y

| z50z92755- Analyte | Res1lt u( V | RL u( V ) | nits u( V | Res1lt uMV | RL uMV ) | nits uMV | DiIn Fac | AnalyUed |
|---|---|---|---|---|---|---|---|---|
| 9.4.2-H6moet yfboazoao | n 5 | 0N24 | ppbv | n 5 | 4N9 | l g/m3 | 4N900 | 0: /07/42 43A44 |
| 9.3-5 rct fu6uboazoao | n 5 | 0N24 | ppbv | n 5 | 4N1 | l g/m3 | 4N900 | 0: /07/42 43A44 |
| 9.2-5 rct fu6uboazoao | n 5 | 0N24 | ppbv | n 5 | 4N1 | l g/m3 | 4N900 | 0: /07/42 43A44 |
| Boazyf ct fu6rdo | n 5 | 0N24 | ppbv | n 5 | 4N4 | l g/m3 | 4N900 | 0: /07/42 43A44 |
| 9.4-5 rct fu6uboazoao | n 5 | 0N24 | ppbv | n 5 | 4N1 | l g/m3 | 4N900 | 0: /07/42 43A44 |
| 9.4.2-H6rct fu6uboazoao | n 5 | 0N24 | ppbv | n 5 | 3N9 | l g/m3 | 4N900 | 0: /07/42 43A44 |
| Ooxhct fu6ubl e-ndroao | n 5 | 0N24 | ppbv | n 5 | 2N1 | l g/m3 | 4N900 | 0: /07/42 43A44 |
| n hpt et hfoao | n 5 | 4N9 | ppbv | n 5 | 99 | l g/m3 | 4N900 | 0: /07/42 43A44 |
| **Xylene utotalV** | **9C2** | 0N24 | ppbv | **. 9** | 9N8 | l g/m3 | 4N900 | 0: /07/42 43A44 |

| z50z92755- S1rrogate | %R, 8 | Limits | ) nits uMV | DiIn Fac | AnalyUed |
|---|---|---|---|---|---|
| B6umu,fl u6uboazoao | 900 | : 0-920 | l g/m3 | 4N900 | 0: /07/42 43A44 |

Logoad

**ND:** n ue5 oeocood

**RL u( V.** Ropu6eag Lmre

**Res1lt uMV.** Rosl fera mhss l ares

**Res1lt u( V.** Rosl fera vufl mo l ares

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 37M31/ **Project#:** 8/ M4m7747S777
**Client:** Rul z:i ssucrheos **Location:** i B&I:Ful ad6y

**Field ID:** SVP-45-3 **Batch#:** 42189M **Prep:** ETHOD0
**Lab ID:** 37M31/-77M **Sampled:** 73 48 12:83A29 **Analysis:** TPi :HD-83
**Matrix:** i r6 **Received:** 75 72 12 **Analyst:** EBC

| 509527-009 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) | Diln Fac | Analyzed |
|---|---|---|---|---|---|---|---|---|
| 8.8-0 r,fl u6uoet hao | n 0 | 477 | NNpb | n 0 | 987 | I v g 4 | 477m | 75 7/ 12:89A19 |
| F6oua:81 | n 0 | 57 | NNpb | n 0 | 477 | I v g 4 | 477m | 75 7/ 12:89A19 |
| F6oua:882 | n 0 | 57 | NNpb | n 0 | 217 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Ct fu6ug oet hao | n 0 | 57 | NNpb | n 0 | 817 | I v g 4 | 477m | 75 7/ 12:89A19 |
| **Vinyl Chloride** | **96** | 57 | NNpb | **250** | 837 | I v g 4 | 477m | 75 7/ 12:89A19 |
| B6ug ug oet hao | n 0 | 57 | NNpb | n 0 | 147 | I v g 4 | 477m | 75 7/ 12:89A19 |
| **Chloroethane** | **39,000** | 477 | NNpb | **100,000** | /M7 | I v g 4 | 8.377 | 75 7/ 12:18A74 |
| H6rct fu6u,fl u6ug oet hao | n 0 | 57 | NNpb | n 0 | 427 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 8.8-0 rct fu6uoet oao | n 0 | 57 | NNpb | n 0 | 127 | I v g 4 | 477m | 75 7/ 12:89A19 |
| F6oua:884 | n 0 | 57 | NNpb | n 0 | 257 | I v g 4 | 477m | 75 7/ 12:89A19 |
| i coeuao | n 0 | 477 | NNpb | n 0 | /87 | I v g 4 | 477m | 75 7/ 12:89A19 |
| **Carbon Disulfide** | **64** | 57 | NNpb | **200** | 8M7 | I v g 4 | 477m | 75 7/ 12:89A19 |
| IsuN6uNhauf:(IPi ) | n 0 | 477 | NNpb | n 0 | /27 | I v g 4 | 477m | 75 7/ 12:89A19 |
| E oet yfoao:Ct fu6do | n 0 | 57 | NNpb | n 0 | 187 | I v g 4 | 477m | 75 7/ 12:89A19 |
| e6has-8.1-0 rct fu6uoet oao | n 0 | 57 | NNpb | n 0 | 127 | I v g 4 | 477m | 75 7/ 12:89A19 |
| EHBT | n 0 | 57 | NNpb | n 0 | 117 | I v g 4 | 477m | 75 7/ 12:89A19 |
| **n-Hexane** | **5,100** | 57 | NNpb | **18,000** | 187 | I v g 4 | 477m | 75 7/ 12:89A19 |
| **1,1-Dichloroethane** | **3,000** | 57 | NNpb | **12,000** | 127 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Vrayf:i coehao | n 0 | 477 | NNpb | n 0 | 8.877 | I v g 4 | 477m | 75 7/ 12:89A19 |
| crs-8.1-0 rct fu6uoet oao | n 0 | 57 | NNpb | n 0 | 127 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 1-BI ehauao | n 0 | 477 | NNpb | n 0 | 997 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Ct fu6u,u6g | n 0 | 57 | NNpb | n 0 | 1M7 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 8.8.8-H6rct fu6uoet hao | n 0 | 57 | NNpb | n 0 | 447 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Ch6pua:Hoe6hct fu6do | n 0 | 57 | NNpb | n 0 | 497 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Boaxoao | n 0 | 57 | NNpb | n 0 | 8M7 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 8.1-0 rct fu6uoet hao | n 0 | 57 | NNpb | n 0 | 127 | I v g 4 | 477m | 75 7/ 12:89A19 |
| H6rct fu6uoet oao | n 0 | 57 | NNpb | n 0 | 417 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 8.1-0 rct fu6uN6uNhao | n 0 | 57 | NNpb | n 0 | 197 | I v g 4 | 477m | 75 7/ 12:89A19 |
| B6ug udrct fu6ug oet hao | n 0 | 57 | NNpb | n 0 | 277 | I v g 4 | 477m | 75 7/ 12:89A19 |
| crs-8.4-0 rct fu6uN6uNoao | n 0 | 57 | NNpb | n 0 | 1/7 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 2-E oet yf-1-Poaehauao | n 0 | 57 | NNpb | n 0 | 137 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Hufl oao | n 0 | 57 | NNpb | n 0 | 147 | I v g 4 | 477m | 75 7/ 12:89A19 |
| e6has-8.4-0 rct fu6uN6uNoao | n 0 | 57 | NNpb | n 0 | 1/7 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 8.8.1-H6rct fu6uoet hao | n 0 | 57 | NNpb | n 0 | 447 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Hoe6hct fu6uoet oao | n 0 | 57 | NNpb | n 0 | 287 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 1-Oozhauao | n 0 | 837 | NNpb | n 0 | 587 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 0 rp6ug uct fu6ug oet hao | n 0 | 57 | NNpb | n 0 | 387 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 8.1-0 rp6ug uoet hao | n 0 | 57 | NNpb | n 0 | 257 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Ct fu6upoaxoao | n 0 | 57 | NNpb | n 0 | 197 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Tet yfpoaxoao | n 0 | 57 | NNpb | n 0 | 157 | I v g 4 | 477m | 75 7/ 12:89A19 |
| g .N-Xyfoaos | n 0 | 817 | NNpb | n 0 | 317 | I v g 4 | 477m | 75 7/ 12:89A19 |
| **o-Xylene** | **120** | 57 | NNpb | **520** | 157 | I v g 4 | 477m | 75 7/ 12:89A19 |
| Sey6oao | n 0 | 57 | NNpb | n 0 | 157 | I v g 4 | 477m | 75 7/ 12:89A19 |
| B6ug u,u6g | n 0 | 57 | NNpb | n 0 | 517 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 8.8.1.1-Hoe6hct fu6uoet hao | n 0 | 57 | NNpb | n 0 | 287 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 8.8.8.1-Hoe6hct fu6uoet hao | n 0 | 57 | NNpb | n 0 | 287 | I v g 4 | 477m | 75 7/ 12:89A19 |
| 2-Tet yfeufl oao | n 0 | 57 | NNpb | n 0 | 1M7 | I v g 4 | 477m | 75 7/ 12:89A19 |
| **1,3,5-Trimethylbenzene** | **60** | 57 | NNpb | **300** | 1M7 | I v g 4 | 477m | 75 7/ 12:89A19 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 37M31/ **Project#:** 8/ M4m747S777

**Client:** Rul z:i ssucrheos **Location:** i B&I:Ful ad6y

| 509527-009 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) | Diln Fac | Analyzed |
|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trimethylbenzene** | **76** | 57 | NNpb | **370** | 1M7 | l v g 4 | 477m | 75 7/ 12:89A9 |
| 8.4-0 rct fu6upoaxoao | n 0 | 57 | NNpb | n 0 | 457 | l v g 4 | 477m | 75 7/ 12:89A9 |
| **1,4-Dichlorobenzene** | **220** | 57 | NNpb | **1,300** | 457 | l v g 4 | 477m | 75 7/ 12:89A9 |
| Boaxyf:ct fu6rdo | n 0 | 57 | NNpb | n 0 | 487 | l v g 4 | 477m | 75 7/ 12:89A9 |
| 8.1-0 rct fu6upoaxoao | n 0 | 57 | NNpb | n 0 | 457 | l v g 4 | 477m | 75 7/ 12:89A9 |
| 8.1.2-H6rct fu6upoaxoao | n 0 | 57 | NNpb | n 0 | 237 | l v g 4 | 477m | 75 7/ 12:89A9 |
| Oozhct fu6upl e-hdroao | n 0 | 57 | NNpb | n 0 | 527 | l v g 4 | 477m | 75 7/ 12:89A9 |
| n hNt et hfoao | n 0 | 477 | NNpb | n 0 | 8.577 | l v g 4 | 477m | 75 7/ 12:89A9 |
| **Xylene (total)** | **120** | 57 | NNpb | **520** | 157 | l v g 4 | 477m | 75 7/ 12:89A9 |

| 509527-009 Surrogate | %REC | Limits | Units (M) | Diln Fac | Analyzed |
|---|---|---|---|---|---|
| B6ug u,fl u6upoaxoao | 872 | 57-827 | l v g 4 | 477m | 75 7/ 12:89A9 |

Lovoad

**ND:** n ue0 oeocood

**RL (V):** RoNu6eav:Lrg re

**Result (M):** Rosl fera:g hss:l ares

**Result (V):** Rosl fera:bufl g o:l ares

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-13-8 **Batch#:** 342291 **Prep:** METHOD
**Lab ID:** 509527-010 **Sampled:** 06/03/24 13:55 **Analysis:** EPA TO-15
**Matrix:** Air **Received:** 06/04/24 **Analyst:** ZNZ
**Diln Fac:** 2.400 **Analyzed:** 06/08/24 21:36

| 509527-010 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 2.4 | ppbv | ND | 6.5 | ug/m3 |
| **Freon 12** | **0.53** | 0.48 | ppbv | **2.6** | 2.4 | ug/m3 |
| Freon 114 | ND | 0.48 | ppbv | ND | 3.4 | ug/m3 |
| **Chloromethane** | **0.82** | 0.48 | ppbv | **1.7** | 0.99 | ug/m3 |
| Vinyl Chloride | ND | 0.48 | ppbv | ND | 1.2 | ug/m3 |
| Bromomethane | ND | 0.48 | ppbv | ND | 1.9 | ug/m3 |
| **Chloroethane** | **1.5** | 0.48 | ppbv | **4.0** | 1.3 | ug/m3 |
| Trichlorofluoromethane | ND | 0.48 | ppbv | ND | 2.7 | ug/m3 |
| 1,1-Dichloroethene | ND | 0.48 | ppbv | ND | 1.9 | ug/m3 |
| Freon 113 | ND | 0.48 | ppbv | ND | 3.7 | ug/m3 |
| **Acetone** | **8.0** | 2.4 | ppbv | **19** | 5.7 | ug/m3 |
| **Carbon Disulfide** | **72** | 0.48 | ppbv | **220** | 1.5 | ug/m3 |
| **Isopropanol (IPA)** | **8.1** | 2.4 | ppbv | **20** | 5.9 | ug/m3 |
| **Methylene Chloride** | **1.5** | 0.48 | ppbv | **5.2** | 1.7 | ug/m3 |
| trans-1,2-Dichloroethene | ND | 0.48 | ppbv | ND | 1.9 | ug/m3 |
| **MTBE** | **1.8** | 0.48 | ppbv | **6.5** | 1.7 | ug/m3 |
| **n-Hexane** | **98** | 0.48 | ppbv | **350** | 1.7 | ug/m3 |
| 1,1-Dichloroethane | ND | 0.48 | ppbv | ND | 1.9 | ug/m3 |
| Vinyl Acetate | ND | 2.4 | ppbv | ND | 8.5 | ug/m3 |
| cis-1,2-Dichloroethene | ND | 0.48 | ppbv | ND | 1.9 | ug/m3 |
| **2-Butanone** | **2.4** | 2.4 | ppbv | **7.2** | 7.1 | ug/m3 |
| **Chloroform** | **6.9** | 0.48 | ppbv | **34** | 2.3 | ug/m3 |
| 1,1,1-Trichloroethane | ND | 0.48 | ppbv | ND | 2.6 | ug/m3 |
| Carbon Tetrachloride | ND | 0.48 | ppbv | ND | 3.0 | ug/m3 |
| **Benzene** | **2.3** | 0.48 | ppbv | **7.5** | 1.5 | ug/m3 |
| 1,2-Dichloroethane | ND | 0.48 | ppbv | ND | 1.9 | ug/m3 |
| Trichloroethene | ND | 0.48 | ppbv | ND | 2.6 | ug/m3 |
| 1,2-Dichloropropane | ND | 0.48 | ppbv | ND | 2.2 | ug/m3 |
| Bromodichloromethane | ND | 0.48 | ppbv | ND | 3.2 | ug/m3 |
| cis-1,3-Dichloropropene | ND | 0.48 | ppbv | ND | 2.2 | ug/m3 |
| 4-Methyl-2-Pentanone | ND | 0.48 | ppbv | ND | 2.0 | ug/m3 |
| **Toluene** | **4.5** | 0.48 | ppbv | **17** | 1.8 | ug/m3 |
| trans-1,3-Dichloropropene | ND | 0.48 | ppbv | ND | 2.2 | ug/m3 |
| 1,1,2-Trichloroethane | ND | 0.48 | ppbv | ND | 2.6 | ug/m3 |
| **Tetrachloroethene** | **0.52** | 0.48 | ppbv | **3.5** | 3.3 | ug/m3 |
| 2-Hexanone | ND | 1.2 | ppbv | ND | 4.9 | ug/m3 |
| Dibromochloromethane | ND | 0.48 | ppbv | ND | 4.1 | ug/m3 |
| 1,2-Dibromoethane | ND | 0.48 | ppbv | ND | 3.7 | ug/m3 |
| Chlorobenzene | ND | 0.48 | ppbv | ND | 2.2 | ug/m3 |
| Ethylbenzene | ND | 0.48 | ppbv | ND | 2.1 | ug/m3 |
| m,p-Xylenes | ND | 0.96 | ppbv | ND | 4.2 | ug/m3 |
| o-Xylene | ND | 0.48 | ppbv | ND | 2.1 | ug/m3 |
| Styrene | ND | 0.48 | ppbv | ND | 2.0 | ug/m3 |
| Bromoform | ND | 0.48 | ppbv | ND | 5.0 | ug/m3 |
| 1,1,2,2-Tetrachloroethane | ND | 0.48 | ppbv | ND | 3.3 | ug/m3 |
| 1,1,1,2-Tetrachloroethane | ND | 0.48 | ppbv | ND | 3.3 | ug/m3 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| 509527-010 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 4-Ethyltoluene | ND | 0.48 | ppbv | ND | 2.4 | ug/m3 |
| 1,3,5-Trimethylbenzene | ND | 0.48 | ppbv | ND | 2.4 | ug/m3 |
| 1,2,4-Trimethylbenzene | ND | 0.48 | ppbv | ND | 2.4 | ug/m3 |
| 1,3-Dichlorobenzene | ND | 0.48 | ppbv | ND | 2.9 | ug/m3 |
| 1,4-Dichlorobenzene | ND | 0.48 | ppbv | ND | 2.9 | ug/m3 |
| Benzyl chloride | ND | 0.48 | ppbv | ND | 2.5 | ug/m3 |
| 1,2-Dichlorobenzene | ND | 0.48 | ppbv | ND | 2.9 | ug/m3 |
| 1,2,4-Trichlorobenzene | ND | 0.48 | ppbv | ND | 3.6 | ug/m3 |
| Hexachlorobutadiene | ND | 0.48 | ppbv | ND | 5.1 | ug/m3 |
| Naphthalene | ND | 2.4 | ppbv | ND | 13 | ug/m3 |
| Xylene (total) | ND | 0.48 | ppbv | ND | 2.1 | ug/m3 |

| 509527-010 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenzene | 106 | 60-140 | ug/m3 |

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 03M097 **Project#:** 17M4.3343S333
**Client:** ( ou& Axxociatex **Location:** AB) sFoundrC

**Field ID:** SVP-13-8 **Batch#:** 4299M1 **Prep:** E THOD5
**Lab ID:** 03M097-311 **Sampled:** 36/34/92 11:04 **Analysis:** TPA HD-10
**Matrix:** Air **Received:** 36/32/92 **Analyst:** ZNZ
**Diln Fac:** 943.3 **Analyzed:** 36/38/92 18:24

| 509527-011 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1-5 ifluoroethane | N5 | 943 | ppbv | N5 | 693 | ug/m4 |
| Freon 19 | N5 | 26 | ppbv | N5 | 943 | ug/m4 |
| Freon 112 | N5 | 26 | ppbv | N5 | 493 | ug/m4 |
| y hloromethane | N5 | 26 | ppbv | N5 | M0 | ug/m4 |
| VinCl y hloride | N5 | 26 | ppbv | N5 | 193 | ug/m4 |
| Bromomethane | N5 | 26 | ppbv | N5 | 183 | ug/m4 |
| y hloroethane | N5 | 26 | ppbv | N5 | 193 | ug/m4 |
| Hrichlorofluoromethane | N5 | 26 | ppbv | N5 | 963 | ug/m4 |
| 1,1-5 ichloroethene | N5 | 26 | ppbv | N5 | 183 | ug/m4 |
| Freon 114 | N5 | 26 | ppbv | N5 | 403 | ug/m4 |
| Acetone | N5 | 943 | ppbv | N5 | 003 | ug/m4 |
| **Carbon Disulfide** | **46** | 26 | ppbv | **140** | 123 | ug/m4 |
| sxopropanol zsPAX | N5 | 943 | ppbv | N5 | 073 | ug/m4 |
| E ethClene y hloride | N5 | 26 | ppbv | N5 | 163 | ug/m4 |
| tranx-1,9-5 ichloroethene | N5 | 26 | ppbv | N5 | 183 | ug/m4 |
| E HBT | N5 | 26 | ppbv | N5 | 173 | ug/m4 |
| **n-Hexane** | **7,300** | 26 | ppbv | **26,000** | 163 | ug/m4 |
| 1,1-5 ichloroethane | N5 | 26 | ppbv | N5 | 1M3 | ug/m4 |
| VinCl Acetate | N5 | 943 | ppbv | N5 | 813 | ug/m4 |
| cix-1,9-5 ichloroethene | N5 | 26 | ppbv | N5 | 183 | ug/m4 |
| 9-Butanone | N5 | 943 | ppbv | N5 | 683 | ug/m4 |
| y hloroform | N5 | 26 | ppbv | N5 | 993 | ug/m4 |
| 1,1,1-Hrichloroethane | N5 | 26 | ppbv | N5 | 903 | ug/m4 |
| y arbon Hetrachloride | N5 | 26 | ppbv | N5 | 9M3 | ug/m4 |
| BenPene | N5 | 26 | ppbv | N5 | 103 | ug/m4 |
| 1,9-5 ichloroethane | N5 | 26 | ppbv | N5 | 1M3 | ug/m4 |
| Hrichloroethene | N5 | 26 | ppbv | N5 | 903 | ug/m4 |
| 1,9-5 ichloropropane | N5 | 26 | ppbv | N5 | 913 | ug/m4 |
| Bromodichloromethane | N5 | 26 | ppbv | N5 | 413 | ug/m4 |
| cix-1,4-5 ichloropropene | N5 | 26 | ppbv | N5 | 913 | ug/m4 |
| 2-E ethCl-9-Pentanone | N5 | 26 | ppbv | N5 | 1M3 | ug/m4 |
| Holuene | N5 | 26 | ppbv | N5 | 173 | ug/m4 |
| tranx-1,4-5 ichloropropene | N5 | 26 | ppbv | N5 | 913 | ug/m4 |
| 1,1,9-Hrichloroethane | N5 | 26 | ppbv | N5 | 903 | ug/m4 |
| Hetrachloroethene | N5 | 26 | ppbv | N5 | 413 | ug/m4 |
| 9-Oe&anone | N5 | 193 | ppbv | N5 | 273 | ug/m4 |
| 5 ibromochloromethane | N5 | 26 | ppbv | N5 | 4M3 | ug/m4 |
| 1,9-5 ibromoethane | N5 | 26 | ppbv | N5 | 403 | ug/m4 |
| y hlorobenPene | N5 | 26 | ppbv | N5 | 913 | ug/m4 |
| TthClbenPene | N5 | 26 | ppbv | N5 | 933 | ug/m4 |
| m,p-I Clenex | N5 | M9 | ppbv | N5 | 233 | ug/m4 |
| o-I Clene | N5 | 26 | ppbv | N5 | 933 | ug/m4 |
| StCrene | N5 | 26 | ppbv | N5 | 933 | ug/m4 |
| Bromoform | N5 | 26 | ppbv | N5 | 283 | ug/m4 |
| 1,1,9,9-Hetrachloroethane | N5 | 26 | ppbv | N5 | 493 | ug/m4 |
| 1,1,1,9-Hetrachloroethane | N5 | 26 | ppbv | N5 | 493 | ug/m4 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 03M097 **Project#:** 17M4.3343S333

**Client:** ( ou& Axxociatex **Location:** AB) sFoundrC

| 509527-011 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 2-TthCltoluene | N5 | 26 | ppbv | N5 | 943 | ug/m4 |
| 1,4,0-HrimethClbenPene | N5 | 26 | ppbv | N5 | 943 | ug/m4 |
| 1,9,2-HrimethClbenPene | N5 | 26 | ppbv | N5 | 943 | ug/m4 |
| 1,4-5 ichlorobenPene | N5 | 26 | ppbv | N5 | 983 | ug/m4 |
| 1,2-5 ichlorobenPene | N5 | 26 | ppbv | N5 | 983 | ug/m4 |
| BenRCl chloride | N5 | 26 | ppbv | N5 | 923 | ug/m4 |
| 1,9-5 ichlorobenPene | N5 | 26 | ppbv | N5 | 983 | ug/m4 |
| 1,9,2-HrichlorobenPene | N5 | 26 | ppbv | N5 | 423 | ug/m4 |
| Oe&achlorobutadiene | N5 | 26 | ppbv | N5 | 2M8 | ug/m4 |
| Naphthalene | N5 | 943 | ppbv | N5 | 1,933 | ug/m4 |
| I Clene ztotalX | N5 | 26 | ppbv | N5 | 933 | ug/m4 |

| 509527-011 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| BromofluorobenPene | 8M | 63-123 | ug/m4 |

Legend

**ND:** Not 5etected

**RL (V):** ( eporting Limit

**Result (M):** ( exult in maxx unitx

**Result (V):** ( exult in volume unitx

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 35M387 **Project#:** 47M2.5525S555

**Client:** Rouz:i ((osrate( **Location:** i B&):Founl 6c

**Field ID:** SVP-45-3 **Batch#:** 21849M **Prep:** E THOD0

**Lab ID:** 35M387-548 **Sampled:** 5/ 52 81:45A84 **Analysis:** TPi :HD-43

**Matrix:** i r6 **Received:** 5/ 51 81 **Analyst:** E BC

**Diln Fac:** 1.835 **Analyzed:** 5/ 59 81:53A53

| 509527-012 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 4,4-0 rfluo6oethane | N0 | 1.2 | ppbv | N0 | 44 | ug m2 |
| F6eon:48 | N0 | 5.93 | ppbv | N0 | 1.8 | ug m2 |
| F6eon:441 | N0 | 5.93 | ppbv | N0 | 3.M | ug m2 |
| Chlo6omethane | N0 | 5.93 | ppbv | N0 | 4.9 | ug m2 |
| Vmcl:Chlo6l e | N0 | 5.93 | ppbv | N0 | 8.8 | ug m2 |
| B6omomethane | N0 | 5.93 | ppbv | N0 | 2.2 | ug m2 |
| Chlo6oethane | N0 | 5.93 | ppbv | N0 | 8.8 | ug m2 |
| H6shlo6ofluo6omethane | N0 | 5.93 | ppbv | N0 | 1.9 | ug m2 |
| 4,4-0 rshlo6oethene | N0 | 5.93 | ppbv | N0 | 2.1 | ug m2 |
| F6eon:442 | N0 | 5.93 | ppbv | N0 | / .3 | ug m2 |
| i setone | N0 | 1.2 | ppbv | N0 | 45 | ug m2 |
| Ca6bon:0 r( ulfrl e | N0 | 5.93 | ppbv | N0 | 8./ | ug m2 |
| )( op6opanol:y)Pi d | N0 | 1.2 | ppbv | N0 | 45 | ug m2 |
| E ethclene:Chlo6l e | N0 | 5.93 | ppbv | N0 | 2.5 | ug m2 |
| t6an( -4,8-0 rshlo6oethene | N0 | 5.93 | ppbv | N0 | 2.1 | ug m2 |
| E HBT | N0 | 5.93 | ppbv | N0 | 2.4 | ug m2 |
| **n-Hexane** | **0.91** | 5.93 | ppbv | **3.2** | 2.5 | ug m2 |
| 4,4-0 rshlo6oethane | N0 | 5.93 | ppbv | N0 | 2.1 | ug m2 |
| Vmcl:i setate | N0 | 1.2 | ppbv | N0 | 43 | ug m2 |
| sr( -4,8-0 rshlo6oethene | N0 | 5.93 | ppbv | N0 | 2.1 | ug m2 |
| 8-Butanone | N0 | 1.2 | ppbv | N0 | 42 | ug m2 |
| Chlo6ofo6m | N0 | 5.93 | ppbv | N0 | 1.8 | ug m2 |
| **1,1,1-Trichloroethane** | **3.5** | 5.93 | ppbv | **19** | 1./ | ug m2 |
| Ca6bon:Het6ashlo6l e | N0 | 5.93 | ppbv | N0 | 3.2 | ug m2 |
| Benxene | N0 | 5.93 | ppbv | N0 | 8.7 | ug m2 |
| 4,8-0 rshlo6oethane | N0 | 5.93 | ppbv | N0 | 2.1 | ug m2 |
| H6shlo6oethene | N0 | 5.93 | ppbv | N0 | 1./ | ug m2 |
| 4,8-0 rshlo6op6opane | N0 | 5.93 | ppbv | N0 | 2.M | ug m2 |
| B6omol rshlo6omethane | N0 | 5.93 | ppbv | N0 | 3.7 | ug m2 |
| sr( -4,2-0 rshlo6op6opene | N0 | 5.93 | ppbv | N0 | 2.M | ug m2 |
| 1-E ethcl-8-Pentanone | N0 | 5.93 | ppbv | N0 | 2.3 | ug m2 |
| Holuene | N0 | 5.93 | ppbv | N0 | 2.8 | ug m2 |
| t6an( -4,2-0 rshlo6op6opene | N0 | 5.93 | ppbv | N0 | 2.M | ug m2 |
| 4,4,8-H6shlo6oethane | N0 | 5.93 | ppbv | N0 | 1./ | ug m2 |
| **Tetrachloroethene** | **120** | 5.93 | ppbv | **840** | 3.9 | ug m2 |
| 8-Oezanone | N0 | 8.4 | ppbv | N0 | 9.7 | ug m2 |
| 0 rb6omoshlo6omethane | N0 | 5.93 | ppbv | N0 | 7.8 | ug m2 |
| 4,8-0 rb6omoethane | N0 | 5.93 | ppbv | N0 | / .3 | ug m2 |
| Chlo6obenxene | N0 | 5.93 | ppbv | N0 | 2.M | ug m2 |
| Tthclbenxene | N0 | 5.93 | ppbv | N0 | 2.7 | ug m2 |
| m,p-Xclene( | N0 | 4.7 | ppbv | N0 | 7.1 | ug m2 |
| o-Xclene | N0 | 5.93 | ppbv | N0 | 2.7 | ug m2 |
| Stc6ene | N0 | 5.93 | ppbv | N0 | 2./ | ug m2 |
| B6omofo6m | N0 | 5.93 | ppbv | N0 | 9.9 | ug m2 |
| 4,4,8,8-Het6ashlo6oethane | N0 | 5.93 | ppbv | N0 | 3.9 | ug m2 |
| 4,4,4,8-Het6ashlo6oethane | N0 | 5.93 | ppbv | N0 | 3.9 | ug m2 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 35M387 **Project#:** 47M2.5525S555

**Client:** Rouz:i ((osrate( **Location:** i B&):Founl 6c

| 509527-012 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1-Tthcltoluene | N0 | 5.93 | ppbv | N0 | 1.8 | ug m2 |
| 4,2,3-H6methclbenxene | N0 | 5.93 | ppbv | N0 | 1.8 | ug m2 |
| 4,8,1-H6methclbenxene | N0 | 5.93 | ppbv | N0 | 1.8 | ug m2 |
| 4,2-0 rshlo6obenxene | N0 | 5.93 | ppbv | N0 | 3.4 | ug m2 |
| 4,1-0 rshlo6obenxene | N0 | 5.93 | ppbv | N0 | 3.4 | ug m2 |
| Benxcl:shlo6l e | N0 | 5.93 | ppbv | N0 | 1.1 | ug m2 |
| 4,8-0 rshlo6obenxene | N0 | 5.93 | ppbv | N0 | 3.4 | ug m2 |
| 4,8,1-H6shlo6obenxene | N0 | 5.93 | ppbv | N0 | / .2 | ug m2 |
| Oezashlo6butal rene | N0 | 5.93 | ppbv | N0 | M4 | ug m2 |
| Naphthalene | N0 | 1.2 | ppbv | N0 | 88 | ug m2 |
| Xclene:ytotald | N0 | 5.93 | ppbv | N0 | 2.7 | ug m2 |

| 509527-012 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| B6omofluo6obenxene | 458 | / 5-415 | ug m2 |

Legenl

**ND:** Not:0etestel

**RL (V):** Repo6mg:Lmrt

**Result (M):** Re( ult:m:ma( ( :unrt(

**Result (V):** Re( ult:m:volume:unrt(

# Onthalpy Analytical - g ranj e Analytical RepErt

**Lab #:** 509527 **PrEG@ct#:** 1793.0030S000

**6 lient:** Roux Associates **LEcatiEn:** AB&I Foundry

**Field ID:** SVP-DUP-01 **Batch#:** 342189 **Prep:** METHOD

**Lab ID:** 509527-013 **Sampled:** 06/03/24 10:21 **Analysis:** EPA TO-15

**Matrix:** Air **Received:** 06/04/24 **Analyst:** MBC

**Diln Fac:** 4.250 **Analyzed:** 06/08/24 05:48

| 509527-04u Analyte | Res( lt \/j U | RL \/j U | Hnits \/j U | Res( lt \MU | RL \MU | Hnits \MU |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 4.3 | ppbv | ND | 11 | ug/m3 |
| Freon 12 | ND | 0.85 | ppbv | ND | 4.2 | ug/m3 |
| Freon 114 | ND | 0.85 | ppbv | ND | 5.9 | ug/m3 |
| Chloromethane | ND | 0.85 | ppbv | ND | 1.8 | ug/m3 |
| Vinyl Chloride | ND | 0.85 | ppbv | ND | 2.2 | ug/m3 |
| Bromomethane | ND | 0.85 | ppbv | ND | 3.3 | ug/m3 |
| Chloroethane | ND | 0.85 | ppbv | ND | 2.2 | ug/m3 |
| Trichlorofluoromethane | ND | 0.85 | ppbv | ND | 4.8 | ug/m3 |
| 1,1-Dichloroethene | ND | 0.85 | ppbv | ND | 3.4 | ug/m3 |
| Freon 113 | ND | 0.85 | ppbv | ND | 6.5 | ug/m3 |
| Acetone | ND | 4.3 | ppbv | ND | 10 | ug/m3 |
| Carbon Disulfide | ND | 0.85 | ppbv | ND | 2.6 | ug/m3 |
| Isopropanol (IPA) | ND | 4.3 | ppbv | ND | 10 | ug/m3 |
| Methylene Chloride | ND | 0.85 | ppbv | ND | 3.0 | ug/m3 |
| trans-1,2-Dichloroethene | ND | 0.85 | ppbv | ND | 3.4 | ug/m3 |
| MTBE | ND | 0.85 | ppbv | ND | 3.1 | ug/m3 |
| **n-1 exane** | **9,o** | 0.85 | ppbv | **u.** | 3.0 | ug/m3 |
| 1,1-Dichloroethane | ND | 0.85 | ppbv | ND | 3.4 | ug/m3 |
| Vinyl Acetate | ND | 4.3 | ppbv | ND | 15 | ug/m3 |
| cis-1,2-Dichloroethene | ND | 0.85 | ppbv | ND | 3.4 | ug/m3 |
| 2-Butanone | ND | 4.3 | ppbv | ND | 13 | ug/m3 |
| Chloroform | ND | 0.85 | ppbv | ND | 4.2 | ug/m3 |
| **4313-TrichlErEethane** | **u,5** | 0.85 | ppbv | **49** | 4.6 | ug/m3 |
| Carbon Tetrachloride | ND | 0.85 | ppbv | ND | 5.3 | ug/m3 |
| **Benzene** | **u,2** | 0.85 | ppbv | **40** | 2.7 | ug/m3 |
| 1,2-Dichloroethane | ND | 0.85 | ppbv | ND | 3.4 | ug/m3 |
| Trichloroethene | ND | 0.85 | ppbv | ND | 4.6 | ug/m3 |
| 1,2-Dichloropropane | ND | 0.85 | ppbv | ND | 3.9 | ug/m3 |
| Bromodichloromethane | ND | 0.85 | ppbv | ND | 5.7 | ug/m3 |
| cis-1,3-Dichloropropene | ND | 0.85 | ppbv | ND | 3.9 | ug/m3 |
| 4-Methyl-2-Pentanone | ND | 0.85 | ppbv | ND | 3.5 | ug/m3 |
| Toluene | ND | 0.85 | ppbv | ND | 3.2 | ug/m3 |
| trans-1,3-Dichloropropene | ND | 0.85 | ppbv | ND | 3.9 | ug/m3 |
| 1,1,2-Trichloroethane | ND | 0.85 | ppbv | ND | 4.6 | ug/m3 |
| **TetrachlErEethene** | **4u0** | 0.85 | ppbv | **8o0** | 5.8 | ug/m3 |
| 2-Hexanone | ND | 2.1 | ppbv | ND | 8.7 | ug/m3 |
| Dibromochloromethane | ND | 0.85 | ppbv | ND | 7.2 | ug/m3 |
| 1,2-Dibromoethane | ND | 0.85 | ppbv | ND | 6.5 | ug/m3 |
| Chlorobenzene | ND | 0.85 | ppbv | ND | 3.9 | ug/m3 |
| **Othylbenzene** | **40** | 0.85 | ppbv | **. 5** | 3.7 | ug/m3 |
| m,p-Xylenes | ND | 1.7 | ppbv | ND | 7.4 | ug/m3 |
| o-Xylene | ND | 0.85 | ppbv | ND | 3.7 | ug/m3 |
| Styrene | ND | 0.85 | ppbv | ND | 3.6 | ug/m3 |
| Bromoform | ND | 0.85 | ppbv | ND | 8.8 | ug/m3 |
| 1,1,2,2-Tetrachloroethane | ND | 0.85 | ppbv | ND | 5.8 | ug/m3 |
| 1,1,1,2-Tetrachloroethane | ND | 0.85 | ppbv | ND | 5.8 | ug/m3 |

ENTHALPY ANALYTICAL

# Onthalpy Analytical - granje Analytical RepErt

**Lab #:** 509527 **PrEQect#:** 1793.0030S000

**6lient:** Roux Associates **LEcatiEn:** AB&I Foundry

| 509527-04u Analyte | Res( lt Vj U | RL Vj U | Hnits Vj U | Res( lt \MU | RL \MU | Hnits \MU |
|---|---|---|---|---|---|---|
| 4-Ethyltoluene | ND | 0.85 | ppbv | ND | 4.2 | ug/m3 |
| 1,3,5-Trimethylbenzene | ND | 0.85 | ppbv | ND | 4.2 | ug/m3 |
| 1,2,4-Trimethylbenzene | ND | 0.85 | ppbv | ND | 4.2 | ug/m3 |
| 1,3-Dichlorobenzene | ND | 0.85 | ppbv | ND | 5.1 | ug/m3 |
| 1,4-Dichlorobenzene | ND | 0.85 | ppbv | ND | 5.1 | ug/m3 |
| Benzyl chloride | ND | 0.85 | ppbv | ND | 4.4 | ug/m3 |
| 1,2-Dichlorobenzene | ND | 0.85 | ppbv | ND | 5.1 | ug/m3 |
| 1,2,4-Trichlorobenzene | ND | 0.85 | ppbv | ND | 6.3 | ug/m3 |
| Hexachlorobutadiene | ND | 0.85 | ppbv | ND | 9.1 | ug/m3 |
| Naphthalene | ND | 4.3 | ppbv | ND | 22 | ug/m3 |
| Xylene (total) | ND | 0.85 | ppbv | ND | 3.7 | ug/m3 |

| 509527-04u S( rrEj ate | %RO6 | Limits | Hnits \MU |
|---|---|---|---|
| Bromofluorobenzene | 100 | 60-140 | ug/m3 |

Legend

**ND:** Not Detected

**RL Vj U** Reporting Limit

**Res( lt \MU** Result in mass units

**Res( lt Vj U** Result in volume units

# , nthalpy Analytical - Orange Analytical Rep8rt

**Lab #:** 309317 **Pr8ject#:** 4795.0050S000

**o lient:** Roux:i ) ) osrate) **L8cati8n:** i B&(:Founl 6c

**Field ID:** SVP-45-3 **Batch#:** 521489 **Prep:** METHOD

**Lab ID:** 309317-042 **Sampled:** 0/ 05 12:44A48 **Analysis:** EPi :TO-43

**Matrix:** i r6 **Received:** 0/ 02 12 **Analyst:** MBC

**Diln Fac:** 43.73 **Analyzed:** 0/ 07 12:49A23

| 509527-03u Analyte | Res( lt V) U | RL V) U | Cnits V) U | Res( lt VMU | RL VMU | Cnits VMU |
|---|---|---|---|---|---|---|
| 4,4-Drfluo6oethane | ND | 4/ | ppbv | ND | 25 | ug m5 |
| F6eon:41 | ND | 5.1 | ppbv | ND | 4/ | ug m5 |
| F6eon:442 | ND | 5.1 | ppbv | ND | 11 | ug m5 |
| Chlo6omethane | ND | 5.1 | ppbv | ND | / .3 | ug m5 |
| Vmcl:Chlo6l e | ND | 5.1 | ppbv | ND | 8.4 | ug m5 |
| B6omomethane | ND | 5.1 | ppbv | ND | 41 | ug m5 |
| **o hl8r8ethane** | **1.9** | 5.1 | ppbv | **30** | 8.5 | ug m5 |
| T6shlo6ofluo6omethane | ND | 5.1 | ppbv | ND | 48 | ug m5 |
| 4,4-Drshlo6oethene | ND | 5.1 | ppbv | ND | 41 | ug m5 |
| F6eon:445 | ND | 5.1 | ppbv | ND | 12 | ug m5 |
| i setone | ND | 4/ | ppbv | ND | 57 | ug m5 |
| **o arb8n Dis( l4de** | **u.2** | 5.1 | ppbv | **31** | 9.8 | ug m5 |
| () op6opanol:y(Pi d | ND | 4/ | ppbv | ND | 59 | ug m5 |
| Methclene:Chlo6l e | ND | 5.1 | ppbv | ND | 44 | ug m5 |
| t6an) -4,1-Drshlo6oethene | ND | 5.1 | ppbv | ND | 41 | ug m5 |
| MTBE | ND | 5.1 | ppbv | ND | 44 | ug m5 |
| **n-f exane** | **T00** | 5.1 | ppbv | **2B00** | 44 | ug m5 |
| 4,4-Drshlo6oethane | ND | 5.1 | ppbv | ND | 45 | ug m5 |
| Vmcl:i setate | ND | 4/ | ppbv | ND | 33 | ug m5 |
| sr) -4,1-Drshlo6oethene | ND | 5.1 | ppbv | ND | 41 | ug m5 |
| 1-Butanone | ND | 4/ | ppbv | ND | 2/ | ug m5 |
| **o hl8r84Brm** | **1.9** | 5.1 | ppbv | **39** | 43 | ug m5 |
| 4,4,4-T6shlo6oethane | ND | 5.1 | ppbv | ND | 47 | ug m5 |
| Ca6bon:Tet6ashlo6l e | ND | 5.1 | ppbv | ND | 10 | ug m5 |
| **Benzene** | **23** | 5.1 | ppbv | **T6** | 40 | ug m5 |
| 4,1-Drshlo6oethane | ND | 5.1 | ppbv | ND | 45 | ug m5 |
| T6shlo6oethene | ND | 5.1 | ppbv | ND | 47 | ug m5 |
| 4,1-Drshlo6op6opane | ND | 5.1 | ppbv | ND | 43 | ug m5 |
| B6omol rshlo6omethane | ND | 5.1 | ppbv | ND | 14 | ug m5 |
| sr) -4,5-Drshlo6op6opene | ND | 5.1 | ppbv | ND | 42 | ug m5 |
| 2-Methcl-1-Pentanone | ND | 5.1 | ppbv | ND | 45 | ug m5 |
| **H8l( ene** | **31** | 5.1 | ppbv | **u9** | 41 | ug m5 |
| t6an) -4,5-Drshlo6op6opene | ND | 5.1 | ppbv | ND | 42 | ug m5 |
| 4,4,1-T6shlo6oethane | ND | 5.1 | ppbv | ND | 47 | ug m5 |
| Tet6ashlo6oethene | ND | 5.1 | ppbv | ND | 14 | ug m5 |
| 1-Hexanone | ND | 7.9 | ppbv | ND | 51 | ug m5 |
| Drb6moshlo6omethane | ND | 5.1 | ppbv | ND | 17 | ug m5 |
| 4,1-Drb6moethane | ND | 5.1 | ppbv | ND | 12 | ug m5 |
| Chlo6obenzene | ND | 5.1 | ppbv | ND | 43 | ug m5 |
| Ethclbenzene | ND | 5.1 | ppbv | ND | 42 | ug m5 |
| m,p-Xclene) | ND | / .5 | ppbv | ND | 17 | ug m5 |
| o-Xclene | ND | 5.1 | ppbv | ND | 42 | ug m5 |
| Stc6ene | ND | 5.1 | ppbv | ND | 45 | ug m5 |
| B6omofo6m | ND | 5.1 | ppbv | ND | 55 | ug m5 |
| 4,4,1,1-Tet6ashlo6oethane | ND | 5.1 | ppbv | ND | 11 | ug m5 |
| 4,4,4,1-Tet6ashlo6oethane | ND | 5.1 | ppbv | ND | 11 | ug m5 |

ENTHALPY ANALYTICAL

# , nthalpy Analytical - Orange Analytical Rep8rt

**Lab #:** 309317 **Pr8ject#:** 4795.0050S000

**o lient:** Roux:i ) ) osrate) **L8cati8n:** i B&(:Founl 6c

| 509527-03u Analyte | Res( lt V) U | RL V) U | Cnits V) U | Res( lt \MU | RL \MU | Cnits \MU |
|---|---|---|---|---|---|---|
| 2-Ethcltoluene | ND | 5.1 | ppbv | ND | 43 | ug m5 |
| 4,5,3-T6methcllbenzene | ND | 5.1 | ppbv | ND | 43 | ug m5 |
| 4,1,2-T6methcllbenzene | ND | 5.1 | ppbv | ND | 43 | ug m5 |
| 4,5-Drshlo6obenzene | ND | 5.1 | ppbv | ND | 49 | ug m5 |
| 4,2-Drshlo6obenzene | ND | 5.1 | ppbv | ND | 49 | ug m5 |
| Benzcl:shlo6l e | ND | 5.1 | ppbv | ND | 4/ | ug m5 |
| 4,1-Drshlo6obenzene | ND | 5.1 | ppbv | ND | 49 | ug m5 |
| 4,1,2-T6shlo6obenzene | ND | 5.1 | ppbv | ND | 15 | ug m5 |
| Hexashlo6obutal rene | ND | 5.1 | ppbv | ND | 52 | ug m5 |
| Naphthalene | ND | 4/ | ppbv | ND | 85 | ug m5 |
| Xclene:ytotald | ND | 5.1 | ppbv | ND | 42 | ug m5 |

| 509527-03u S( rr8gate | %R, o | Limits | Cnits \MU |
|---|---|---|---|
| B6omofluo6obenzene | 40/ | / 0-420 | ug m5 |

Legenl

**ND:** Not:Detestel

**RL V) U** Repo8mg:Lrmrt

**Res( lt \MU** Re) ult:m:ma) ) :unrt)

**Res( lt V) U** Re) ult:m:volume:unrt)

ENTHALPY ANALYTICAL

# , nthalpy Analytical - Orange Analytical Report

**Lab #:** 509517 **Project#:** 2793.0030S000

**Client:** Roux Al I ociatel **Location:** AB&s Foundry

**Field ID:** SVP-DUP-01 **Batch#:** 341289 **Prep:** METHOD

**Lab ID:** 509517-025 **Sampled:** 06/03/14 22:28 **Analysis:** EPA TO-25

**Matrix:** Air **Received:** 06/04/14 **Analyst:** MBC

**Diln Fac:** 25.75 **Analyzed:** 06/07/14 10:16

| 509527-035 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 2,2-Difluoroethane | ND | 26 | ppbv | ND | 43 | ug/m3 |
| Freon 21 | ND | 3.1 | ppbv | ND | 26 | ug/m3 |
| Freon 224 | ND | 3.1 | ppbv | ND | 11 | ug/m3 |
| Chloromethane | ND | 3.1 | ppbv | ND | 6.5 | ug/m3 |
| Vinyl Chloride | ND | 3.1 | ppbv | ND | 8.2 | ug/m3 |
| Bromomethane | ND | 3.1 | ppbv | ND | 21 | ug/m3 |
| Chloroethane | ND | 3.1 | ppbv | ND | 8.3 | ug/m3 |
| Trichlorofluoromethane | ND | 3.1 | ppbv | ND | 28 | ug/m3 |
| 2,2-Dichloroethene | ND | 3.1 | ppbv | ND | 21 | ug/m3 |
| Freon 223 | ND | 3.1 | ppbv | ND | 14 | ug/m3 |
| Acetone | ND | 26 | ppbv | ND | 37 | ug/m3 |
| **Carbon Disul8de** | **1.3** | 3.1 | ppbv | **34** | 9.8 | ug/m3 |
| sl opropanol (sPA) | ND | 26 | ppbv | ND | 39 | ug/m3 |
| Methylene Chloride | ND | 3.1 | ppbv | ND | 22 | ug/m3 |
| tranl -2,1-Dichloroethene | ND | 3.1 | ppbv | ND | 21 | ug/m3 |
| MTBE | ND | 3.1 | ppbv | ND | 22 | ug/m3 |
| **n-f exane** | **T00** | 3.1 | ppbv | **2B00** | 22 | ug/m3 |
| 2,2-Dichloroethane | ND | 3.1 | ppbv | ND | 23 | ug/m3 |
| Vinyl Acetate | ND | 26 | ppbv | ND | 55 | ug/m3 |
| cil -2,1-Dichloroethene | ND | 3.1 | ppbv | ND | 21 | ug/m3 |
| 1-Butanone | ND | 26 | ppbv | ND | 46 | ug/m3 |
| **Chloro8orm** | **4.6** | 3.1 | ppbv | **39** | 25 | ug/m3 |
| 2,2,2-Trichloroethane | ND | 3.1 | ppbv | ND | 27 | ug/m3 |
| Carbon Tetrachloride | ND | 3.1 | ppbv | ND | 10 | ug/m3 |
| **Benzene** | **23** | 3.1 | ppbv | **TT** | 20 | ug/m3 |
| 2,1-Dichloroethane | ND | 3.1 | ppbv | ND | 23 | ug/m3 |
| Trichloroethene | ND | 3.1 | ppbv | ND | 27 | ug/m3 |
| 2,1-Dichloropropane | ND | 3.1 | ppbv | ND | 25 | ug/m3 |
| Bromodichloromethane | ND | 3.1 | ppbv | ND | 12 | ug/m3 |
| cil -2,3-Dichloropropene | ND | 3.1 | ppbv | ND | 24 | ug/m3 |
| 4-Methyl-1-Pentanone | ND | 3.1 | ppbv | ND | 23 | ug/m3 |
| **Holuene** | **32** | 3.1 | ppbv | **17** | 21 | ug/m3 |
| tranl -2,3-Dichloropropene | ND | 3.1 | ppbv | ND | 24 | ug/m3 |
| 2,2,1-Trichloroethane | ND | 3.1 | ppbv | ND | 27 | ug/m3 |
| Tetrachloroethene | ND | 3.1 | ppbv | ND | 12 | ug/m3 |
| 1-Hexanone | ND | 7.9 | ppbv | ND | 31 | ug/m3 |
| Dibromochloromethane | ND | 3.1 | ppbv | ND | 17 | ug/m3 |
| 2,1-Dibromoethane | ND | 3.1 | ppbv | ND | 14 | ug/m3 |
| Chlorobenzene | ND | 3.1 | ppbv | ND | 25 | ug/m3 |
| Ethylbenzene | ND | 3.1 | ppbv | ND | 24 | ug/m3 |
| m,p-Xylenel | ND | 6.3 | ppbv | ND | 17 | ug/m3 |
| o-Xylene | ND | 3.1 | ppbv | ND | 24 | ug/m3 |
| Styrene | ND | 3.1 | ppbv | ND | 23 | ug/m3 |
| Bromoform | ND | 3.1 | ppbv | ND | 33 | ug/m3 |
| 2,2,1,1-Tetrachloroethane | ND | 3.1 | ppbv | ND | 11 | ug/m3 |
| 2,2,2,1-Tetrachloroethane | ND | 3.1 | ppbv | ND | 11 | ug/m3 |

# , nthalpy Analytical - Orange Analytical Report

**Lab #:** 509517 **Project#:** 2793.0030S000

**Client:** Roux Al l ociatel **Location:** AB&s Foundry

| 509527-035 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 4-Ethyltoluene | ND | 3.1 | ppbv | ND | 25 | ug/m3 |
| 2,3,5-Trimethylbenzene | ND | 3.1 | ppbv | ND | 25 | ug/m3 |
| 2,1,4-Trimethylbenzene | ND | 3.1 | ppbv | ND | 25 | ug/m3 |
| 2,3-Dichlorobenzene | ND | 3.1 | ppbv | ND | 29 | ug/m3 |
| 2,4-Dichlorobenzene | ND | 3.1 | ppbv | ND | 29 | ug/m3 |
| Benzyl chloride | ND | 3.1 | ppbv | ND | 26 | ug/m3 |
| 2,1-Dichlorobenzene | ND | 3.1 | ppbv | ND | 29 | ug/m3 |
| 2,1,4-Trichlorobenzene | ND | 3.1 | ppbv | ND | 13 | ug/m3 |
| Hexachlorobutadiene | ND | 3.1 | ppbv | ND | 34 | ug/m3 |
| Naphthalene | ND | 26 | ppbv | ND | 83 | ug/m3 |
| Xylene (total) | ND | 3.1 | ppbv | ND | 24 | ug/m3 |

| 509527-035 Surrogate | %R, C | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenzene | 208 | 60-240 | ug/m3 |

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Rel ult in mal l unitl

**Result (V):** Rel ult in volume unitl

# , nthalpy Analytical - Orange Analytical Rep8rt

**Lab #:** CD5C80 **Pr8ject#:** 7054NDD4DSDDD

**olient:** ( ul R': ccudAneoc **L8cati8n:** : C) BFul aXiz

| | | | | | |
|---|---|---|---|---|---|
| **Field ID:** | SVP-13-8 | **Batch#:** | 483884 | **Prep:** | 2 9METH |
| **Lab ID:** | CD5C80-D71 | **Sampled:** | D16D4638/74 7O | **Analysis:** | 9P: /MT-7O |
| **Matrix:** | : A | **Received:** | D16D8638 | **Analyst:** | r Zr |
| **Diln Fac:** | 4DNDD | **Analyzed:** | D167768/78 CD | | |

| 509527-03u Analyte | Res( lt V) U | RL V) U | Cnits V) U | Res( lt VMU | RL VMU | Cnits VMU |
|---|---|---|---|---|---|---|
| 7.7-HAfl uiuoet hao | ZH | 4D | nnpb | ZH | v7 | I g6m4 |
| Fioua/73 | ZH | 1ND | nnpb | ZH | 4D | I g6m4 |
| Fioua/778 | ZH | 1ND | nnpb | ZH | 83 | I g6m4 |
| y t fuiumoet hao | ZH | 1ND | nnpb | ZH | 73 | I g6m4 |
| **) inyl ohl8ride** | **25** | 1ND | nnpb | **u1** | 7O | I g6m4 |
| Ciumumoet hao | ZH | 1ND | nnpb | ZH | 34 | I g6m4 |
| y t fuiuoet hao | ZH | 1ND | nnpb | ZH | 71 | I g6m4 |
| MAlt fuiu,fl uiumoet hao | ZH | 1ND | nnpb | ZH | 48 | I g6m4 |
| 7.7-HAlt fuiuoet oao | ZH | 1ND | nnpb | ZH | 38 | I g6m4 |
| Fioua/774 | ZH | 1ND | nnpb | ZH | 81 | I g6m4 |
| **Acet8ne** | **. .** | 4D | nnpb | **77** | 07 | I g6m4 |
| **oarb8n Dis( l4de** | **7f9** | 1ND | nnpb | **21** | 75 | I g6m4 |
| Bcuniunhauf/sBP: x | ZH | 4D | nnpb | ZH | 08 | I g6m4 |
| 2 oet zfoao/y t fuiAko | ZH | 1ND | nnpb | ZH | 37 | I g6m4 |
| ehac-7.3-HAlt fuiuoet oao | ZH | 1ND | nnpb | ZH | 38 | I g6m4 |
| 2 MC9 | ZH | 1ND | nnpb | ZH | 33 | I g6m4 |
| **n-Texane** | **970** | 1ND | nnpb | **. E00** | 37 | I g6m4 |
| 7.7-HAlt fuiuoet hao | ZH | 1ND | nnpb | ZH | 38 | I g6m4 |
| VAuzf/: doehoo | ZH | 4D | nnpb | ZH | 77D | I g6m4 |
| **cis-3B2-Dichl8r8ethene** | **35** | 1ND | nnpb | **u0** | 38 | I g6m4 |
| 3-Cl ehauao | ZH | 4D | nnpb | ZH | vv | I g6m4 |
| y t fuiu,uim | ZH | 1ND | nnpb | ZH | 35 | I g6m4 |
| 7.7.7-MAlt fuiuoet hao | ZH | 1ND | nnpb | ZH | 44 | I g6m4 |
| y hipua/Mbehdt fuiAko | ZH | 1ND | nnpb | ZH | 4v | I g6m4 |
| **Benzene** | **22** | 1ND | nnpb | **73** | 75 | I g6m4 |
| 7.3-HAlt fuiuoet hao | ZH | 1ND | nnpb | ZH | 38 | I g6m4 |
| **6richl8r8ethene** | **21** | 1ND | nnpb | **3. 0** | 43 | I g6m4 |
| 7.3-HAlt fuiuniunhao | ZH | 1ND | nnpb | ZH | 3v | I g6m4 |
| CiumuXAlt fuiumoet hao | ZH | 1ND | nnpb | ZH | 8D | I g6m4 |
| dA-7.4-HAlt fuiuniunoao | ZH | 1ND | nnpb | ZH | 30 | I g6m4 |
| 8-2 oet zf-3-Poaehauao | ZH | 1ND | nnpb | ZH | 3O | I g6m4 |
| **68l( ene** | **31** | 1ND | nnpb | **5.** | 34 | I g6m4 |
| ehac-7.4-HAlt fuiuniunoao | ZH | 1ND | nnpb | ZH | 30 | I g6m4 |
| 7.7.3-MAlt fuiuoet hao | ZH | 1ND | nnpb | ZH | 44 | I g6m4 |
| Mbehdt fuiuoet oao | ZH | 1ND | nnpb | ZH | 87 | I g6m4 |
| 3-EoPhauao | ZH | 7O | nnpb | ZH | 17 | I g6m4 |
| HApiumudt fuiumoet hao | ZH | 1ND | nnpb | ZH | C7 | I g6m4 |
| 7.3-HApiumuoet hao | ZH | 1ND | nnpb | ZH | 81 | I g6m4 |
| **ohl8r8benzene** | **u20** | 1ND | nnpb | **2E00** | 3v | I g6m4 |
| 9et zfpoa&oao | ZH | 1ND | nnpb | ZH | 31 | I g6m4 |
| m.n-I zfoaoc | ZH | 73 | nnpb | ZH | C8 | I g6m4 |
| u-I zfoao | ZH | 1ND | nnpb | ZH | 31 | I g6m4 |
| Sezioao | ZH | 1ND | nnpb | ZH | 31 | I g6m4 |
| Ciumu,uim | ZH | 1ND | nnpb | ZH | 13 | I g6m4 |
| 7.7.3.3-Mbehdt fuiuoet hao | ZH | 1ND | nnpb | ZH | 87 | I g6m4 |
| 7.7.7.3-Mbehdt fuiuoet hao | ZH | 1ND | nnpb | ZH | 87 | I g6m4 |

ENTHALPY ANALYTICAL

# , nthalpy Analytical - Orange Analytical Rep8rt

**Lab #:** CD5C30 **Pr8ject#:** 7054NDD4DSDDD

**olient:** ( ul RY: ccudAneoc **L8cati8n:** : C) BZFul aXiz

| 509527-03u Analyte | Res( lt Vj U | RL Vj U | Cnits Vj U | Res( lt VMU | RL VMU | Cnits VMU |
|---|---|---|---|---|---|---|
| 8-9et zfeufl oao | ZH | 1ND | nnpb | ZH | 35 | I g6m4 |
| 7.4.O-MAmoet zfpoa&oao | ZH | 1ND | nnpb | ZH | 35 | I g6m4 |
| 7.3.8-MAmoet zfpoa&oao | ZH | 1ND | nnpb | ZH | 35 | I g6m4 |
| 7.4-HAlt fui upoa&oao | ZH | 1ND | nnpb | ZH | 41 | I g6m4 |
| **3E-Dichl8r8benzene** | **11** | 1ND | nnpb | **270** | 41 | I g6m4 |
| Coa&zf/dt fuiAXo | ZH | 1ND | nnpb | ZH | 47 | I g6m4 |
| 7.3-HAlt fui upoa&oao | ZH | 1ND | nnpb | ZH | 41 | I g6m4 |
| 7.3.8-MAlt fui upoa&oao | ZH | 1ND | nnpb | ZH | 8O | I g6m4 |
| EoPndt fui upl enXAoao | ZH | 1ND | nnpb | ZH | 18 | I g6m4 |
| Zhnt et hfoao | ZH | 4D | nnpb | ZH | 71D | I g6m4 |
| I zfoao/seuenfx | ZH | 1ND | nnpb | ZH | 31 | I g6m4 |

| 509527-03u S( rr8gate | %R, o | Limits | Cnits VMU |
|---|---|---|---|
| Ciumu,fl ui upoa&oao | 7D8 | 1D-78D | I g6m4 |

LogoaX

**ND:** ZueHoeodeoX

**RL Vj U** ( onuieAg/LAmAe

**Res( lt VMU** ( ocl fe/Aa/mhcc/l aAc

**Res( lt Vj U** ( ocl fe/Aa/bufl mo/l aAc

ENTHALPY ANALYTICAL

# , nthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-DUP-03 **Batch#:** 342291 **Prep:** METHOD

**Lab ID:** 509527-017 **Sampled:** 06/03/24 13:15 **Analysis:** EPA TO-15

**Matrix:** Air **Received:** 06/04/24 **Analyst:** ZNZ

**Diln Fac:** 24.00 **Analyzed:** 06/08/24 23:05

| 509527-037 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 24 | ppbv | ND | 65 | ug/m3 |
| Freon 12 | ND | 4.8 | ppbv | ND | 24 | ug/m3 |
| Freon 114 | ND | 4.8 | ppbv | ND | 34 | ug/m3 |
| Chloromethane | ND | 4.8 | ppbv | ND | 9.9 | ug/m3 |
| **Vinyl Chloride** | **27** | 4.8 | ppbv | **70** | 12 | ug/m3 |
| Bromomethane | ND | 4.8 | ppbv | ND | 19 | ug/m3 |
| Chloroethane | ND | 4.8 | ppbv | ND | 13 | ug/m3 |
| Trichlorofluoromethane | ND | 4.8 | ppbv | ND | 27 | ug/m3 |
| 1,1-Dichloroethene | ND | 4.8 | ppbv | ND | 19 | ug/m3 |
| Freon 113 | ND | 4.8 | ppbv | ND | 37 | ug/m3 |
| **Acetone** | **81** | 24 | ppbv | **300** | 57 | ug/m3 |
| **Carbon Disul.ide** | **940** | 4.8 | ppbv | **2f** | 15 | ug/m3 |
| Isopropanol (IPA) | ND | 24 | ppbv | ND | 59 | ug/m3 |
| Methylene Chloride | ND | 4.8 | ppbv | ND | 17 | ug/m3 |
| trans-1,2-Dichloroethene | ND | 4.8 | ppbv | ND | 19 | ug/m3 |
| MTBE | ND | 4.8 | ppbv | ND | 17 | ug/m3 |
| **n-Texane** | **3500** | 4.8 | ppbv | **1900** | 17 | ug/m3 |
| 1,1-Dichloroethane | ND | 4.8 | ppbv | ND | 19 | ug/m3 |
| Vinyl Acetate | ND | 24 | ppbv | ND | 85 | ug/m3 |
| **cis-312-Dichloroethene** | **36** | 4.8 | ppbv | **65** | 19 | ug/m3 |
| 2-Butanone | ND | 24 | ppbv | ND | 71 | ug/m3 |
| Chloroform | ND | 4.8 | ppbv | ND | 23 | ug/m3 |
| 1,1,1-Trichloroethane | ND | 4.8 | ppbv | ND | 26 | ug/m3 |
| Carbon Tetrachloride | ND | 4.8 | ppbv | ND | 30 | ug/m3 |
| **Benzene** | **28** | 4.8 | ppbv | **77** | 15 | ug/m3 |
| 1,2-Dichloroethane | ND | 4.8 | ppbv | ND | 19 | ug/m3 |
| **Hrichloroethene** | **25** | 4.8 | ppbv | **310** | 26 | ug/m3 |
| 1,2-Dichloropropane | ND | 4.8 | ppbv | ND | 22 | ug/m3 |
| Bromodichloromethane | ND | 4.8 | ppbv | ND | 32 | ug/m3 |
| cis-1,3-Dichloropropene | ND | 4.8 | ppbv | ND | 22 | ug/m3 |
| 4-Methyl-2-Pentanone | ND | 4.8 | ppbv | ND | 20 | ug/m3 |
| **Holuene** | **35** | 4.8 | ppbv | **57** | 18 | ug/m3 |
| trans-1,3-Dichloropropene | ND | 4.8 | ppbv | ND | 22 | ug/m3 |
| 1,1,2-Trichloroethane | ND | 4.8 | ppbv | ND | 26 | ug/m3 |
| Tetrachloroethene | ND | 4.8 | ppbv | ND | 33 | ug/m3 |
| 2-Hexanone | ND | 12 | ppbv | ND | 49 | ug/m3 |
| Dibromochloromethane | ND | 4.8 | ppbv | ND | 41 | ug/m3 |
| 1,2-Dibromoethane | ND | 4.8 | ppbv | ND | 37 | ug/m3 |
| **Chlorobenzene** | **680** | 4.8 | ppbv | **2f900** | 22 | ug/m3 |
| Ethylbenzene | ND | 4.8 | ppbv | ND | 21 | ug/m3 |
| m,p-Xylenes | ND | 9.6 | ppbv | ND | 42 | ug/m3 |
| o-Xylene | ND | 4.8 | ppbv | ND | 21 | ug/m3 |
| Styrene | ND | 4.8 | ppbv | ND | 20 | ug/m3 |
| Bromoform | ND | 4.8 | ppbv | ND | 50 | ug/m3 |
| 1,1,2,2-Tetrachloroethane | ND | 4.8 | ppbv | ND | 33 | ug/m3 |
| 1,1,1,2-Tetrachloroethane | ND | 4.8 | ppbv | ND | 33 | ug/m3 |

# , nthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| 509527-037 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 4-Ethyltoluene | ND | 4.8 | ppbv | ND | 24 | ug/m3 |
| 1,3,5-Trimethylbenzene | ND | 4.8 | ppbv | ND | 24 | ug/m3 |
| 1,2,4-Trimethylbenzene | ND | 4.8 | ppbv | ND | 24 | ug/m3 |
| 1,3-Dichlorobenzene | ND | 4.8 | ppbv | ND | 29 | ug/m3 |
| **1,4-Dichlorobenzene** | **50** | 4.8 | ppbv | **100** | 29 | ug/m3 |
| Benzyl chloride | ND | 4.8 | ppbv | ND | 25 | ug/m3 |
| 1,2-Dichlorobenzene | ND | 4.8 | ppbv | ND | 29 | ug/m3 |
| 1,2,4-Trichlorobenzene | ND | 4.8 | ppbv | ND | 36 | ug/m3 |
| Hexachlorobutadiene | ND | 4.8 | ppbv | ND | 51 | ug/m3 |
| Naphthalene | ND | 24 | ppbv | ND | 130 | ug/m3 |
| Xylene (total) | ND | 4.8 | ppbv | ND | 21 | ug/m3 |

| 509527-037 Surrogate | %R, C | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenzene | 104 | 60-140 | ug/m3 |

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

# , nthalpy Analytical - Orange Analytical RepCrt

**Lab #:** 509527 **PrCject#:** 1793.0030S000

**. lient:** Roux Associates **LCcatiCn:** AB&I Foundry

| | | | | | |
|---|---|---|---|---|---|
| **Field ID:** | SVP-57-5 | **Batch#:** | 342291 | **Prep:** | METHOD |
| **Lab ID:** | 509527-018 | **Sampled:** | 06/03/24 14:32 | **Analysis:** | EPA TO-15 |
| **Matrix:** | Air | **Received:** | 06/04/24 | **Analyst:** | ZNZ |
| **Diln Fac:** | 9.200 | **Analyzed:** | 06/08/24 20:47 | | |

| 509527-01u Analyte | Res( lt V) U | RL V) U | onits V) U | Res( lt VMU | RL VMU | onits VMU |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 9.2 | ppbv | ND | 25 | ug/m3 |
| Freon 12 | ND | 1.8 | ppbv | ND | 9.1 | ug/m3 |
| Freon 114 | ND | 1.8 | ppbv | ND | 13 | ug/m3 |
| Chloromethane | ND | 1.8 | ppbv | ND | 3.8 | ug/m3 |
| **) inyl . hlCride** | **130** | 1.8 | ppbv | **320** | 4.7 | ug/m3 |
| Bromomethane | ND | 1.8 | ppbv | ND | 7.1 | ug/m3 |
| **. hlCrCethane** | **28** | 1.8 | ppbv | **68** | 4.9 | ug/m3 |
| Trichlorofluoromethane | ND | 1.8 | ppbv | ND | 10 | ug/m3 |
| 1,1-Dichloroethene | ND | 1.8 | ppbv | ND | 7.3 | ug/m3 |
| Freon 113 | ND | 1.8 | ppbv | ND | 14 | ug/m3 |
| **AcetCne** | **67** | 9.2 | ppbv | **160** | 22 | ug/m3 |
| **. arbCn Dis( lfide** | **57** | 1.8 | ppbv | **1u0** | 5.7 | ug/m3 |
| Isopropanol (IPA) | ND | 9.2 | ppbv | ND | 23 | ug/m3 |
| Methylene Chloride | ND | 1.8 | ppbv | ND | 6.4 | ug/m3 |
| **trans-142-DichlCrCethene** | **28** | 1.8 | ppbv | **98** | 7.3 | ug/m3 |
| MTBE | ND | 1.8 | ppbv | ND | 6.6 | ug/m3 |
| **n-Hexane** | **310** | 1.8 | ppbv | **1400** | 6.5 | ug/m3 |
| **141-DichlCrCethane** | **1T** | 1.8 | ppbv | **55** | 7.4 | ug/m3 |
| Vinyl Acetate | ND | 9.2 | ppbv | ND | 32 | ug/m3 |
| **cis-142-DichlCrCethene** | **68u** | 1.8 | ppbv | **27** | 7.3 | ug/m3 |
| **2-B( tanCne** | **12** | 9.2 | ppbv | **36** | 27 | ug/m3 |
| Chloroform | ND | 1.8 | ppbv | ND | 9.0 | ug/m3 |
| 1,1,1-Trichloroethane | ND | 1.8 | ppbv | ND | 10 | ug/m3 |
| Carbon Tetrachloride | ND | 1.8 | ppbv | ND | 12 | ug/m3 |
| **Benzene** | **5T** | 1.8 | ppbv | **170** | 5.9 | ug/m3 |
| 1,2-Dichloroethane | ND | 1.8 | ppbv | ND | 7.4 | ug/m3 |
| **ErichlCrCethene** | **35** | 1.8 | ppbv | **19** | 9.9 | ug/m3 |
| 1,2-Dichloropropane | ND | 1.8 | ppbv | ND | 8.5 | ug/m3 |
| Bromodichloromethane | ND | 1.8 | ppbv | ND | 12 | ug/m3 |
| cis-1,3-Dichloropropene | ND | 1.8 | ppbv | ND | 8.4 | ug/m3 |
| **T-Methyl-2-PentanCne** | **12** | 1.8 | ppbv | **T9** | 7.5 | ug/m3 |
| **ECl( ene** | **27** | 1.8 | ppbv | **100** | 6.9 | ug/m3 |
| trans-1,3-Dichloropropene | ND | 1.8 | ppbv | ND | 8.4 | ug/m3 |
| 1,1,2-Trichloroethane | ND | 1.8 | ppbv | ND | 10 | ug/m3 |
| **EetrachlCrCethene** | **28u** | 1.8 | ppbv | **19** | 12 | ug/m3 |
| 2-Hexanone | ND | 4.6 | ppbv | ND | 19 | ug/m3 |
| Dibromochloromethane | ND | 1.8 | ppbv | ND | 16 | ug/m3 |
| 1,2-Dibromoethane | ND | 1.8 | ppbv | ND | 14 | ug/m3 |
| Chlorobenzene | ND | 1.8 | ppbv | ND | 8.5 | ug/m3 |
| **, thylbenzene** | **16** | 1.8 | ppbv | **71** | 8.0 | ug/m3 |
| **m4p-Xylenes** | **2T** | 3.7 | ppbv | **100** | 16 | ug/m3 |
| **C-Xylene** | **27** | 1.8 | ppbv | **120** | 8.0 | ug/m3 |
| Styrene | ND | 1.8 | ppbv | ND | 7.8 | ug/m3 |
| Bromoform | ND | 1.8 | ppbv | ND | 19 | ug/m3 |
| 1,1,2,2-Tetrachloroethane | ND | 1.8 | ppbv | ND | 13 | ug/m3 |
| 1,1,1,2-Tetrachloroethane | ND | 1.8 | ppbv | ND | 13 | ug/m3 |

ENTHALPY ANALYTICAL

# , nthalpy Analytical - Orange Analytical RepCrt

**Lab #:** 509527 **PrCject#:** 1793.0030S000

**. lient:** Roux Associates **LCcatiCn:** AB&I Foundry

| 509527-01u Analyte | Res( lt Vj U | RL Vj U | onits Vj U | Res( lt \MU | RL \MU | onits \MU |
|---|---|---|---|---|---|---|
| **T-, thylitCl( ene** | **15** | 1.8 | ppbv | **7T** | 9.0 | ug/m3 |
| **1&3&5-Erimethylbenzene** | **37** | 1.8 | ppbv | **1u0** | 9.0 | ug/m3 |
| **1&2&4T-Erimethylbenzene** | **53** | 1.8 | ppbv | **260** | 9.0 | ug/m3 |
| 1,3-Dichlorobenzene | ND | 1.8 | ppbv | ND | 11 | ug/m3 |
| 1,4-Dichlorobenzene | ND | 1.8 | ppbv | ND | 11 | ug/m3 |
| Benzyl chloride | ND | 1.8 | ppbv | ND | 9.5 | ug/m3 |
| 1,2-Dichlorobenzene | ND | 1.8 | ppbv | ND | 11 | ug/m3 |
| 1,2,4-Trichlorobenzene | ND | 1.8 | ppbv | ND | 14 | ug/m3 |
| Hexachlorobutadiene | ND | 1.8 | ppbv | ND | 20 | ug/m3 |
| Naphthalene | ND | 9.2 | ppbv | ND | 48 | ug/m3 |
| **Xylene \tCtalU** | **51** | 1.8 | ppbv | **220** | 8.0 | ug/m3 |

| 509527-01u S( rrCgate | %R, . | Limits | onits \MU |
|---|---|---|---|
| Bromofluorobenzene | 89 | 60-140 | ug/m3 |

Legend

**ND:** Not Detected

**RL Vj U** Reporting Limit

**Res( lt \MU** Result in mass units

**Res( lt Vj U** Result in volume units

ENTHALPY ANALYTICAL

# E#nVaIcP h#aIPriSaI 0Oya#ge h#aIPriSaI bec. yn

**paL ):** 509527 **My. jeSn):** 1793.0030S000

**olie#n:** Roux Associates **p. Sari. #:** AB&I Foundry

**Field ID:** SVP-32-8 **Bat cled:** 05/31/24 11:56 **h#aIPrir:** EPA TO-15

**paL ID:** 509527-019 **beSeimed:** 06/04/24

**Aanyis:** Air **Myec:** METHOD

| xRvxz50R9v h#aIPre | ber2In7-1 | bp7-1 | u#inr7-1 | ber2In7A1 | bp7A1 | u#inr7A1 | Dil# | FaS (arSV) | h#aIPUed | h#aIPrn |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 4.0 | ppbv | ND | 11 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Freon 12 | ND | 0.80 | ppbv | ND | 4.0 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Freon 114 | ND | 0.80 | ppbv | ND | 5.6 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Chloromethane | ND | 0.80 | ppbv | ND | 1.7 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **- i#Pl oVl. yide** | **9C** | 0.80 | ppbv | **39** | 2.0 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Bromomethane | ND | 0.80 | ppbv | ND | 3.1 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Chloroethane | ND | 0.80 | ppbv | ND | 2.1 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Trichlorofluoromethane | ND | 0.80 | ppbv | ND | 4.5 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,1-Dichloroethene | ND | 0.80 | ppbv | ND | 3.2 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Freon 113 | ND | 0.80 | ppbv | ND | 6.1 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **hSen #e** | **Cv** | 4.0 | ppbv | **9CR** | 9.5 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **oayL. # Dir2Ilde** | **R6vf** | 0.80 | ppbv | **469** | 2.5 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **Ir. cy. ca#. I 7lMh1** | **95R** | 20 | ppbv | **3zR** | 49 | ug/m3 | 20.00 | 342189 | 06/08/24 00:02 | MBC |
| Methylene Chloride | ND | 0.80 | ppbv | ND | 2.8 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **nya#r 09Hz0DiSVl. y. enVe#e** | **z69** | 0.80 | ppbv | **f 64** | 3.2 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **AT( E** | **96x** | 0.80 | ppbv | **x6x** | 2.9 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **#0, esa#e** | **9xR** | 0.80 | ppbv | **xzR** | 2.8 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **9l900DiSVl. y. enVa#e** | **z6R** | 0.80 | ppbv | **f 64** | 3.2 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Vinyl Acetate | ND | 4.0 | ppbv | ND | 14 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **Sir 09Hz0DiSVl. y. enVe#e** | **f 69** | 0.80 | ppbv | **4z** | 3.2 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **z0( 2na#. #e** | **36f** | 4.0 | ppbv | **93** | 12 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Chloroform | ND | 0.80 | ppbv | ND | 3.9 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,1,1-Trichloroethane | ND | 0.80 | ppbv | ND | 4.4 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Carbon Tetrachloride | ND | 0.80 | ppbv | ND | 5.0 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **( e#Ue#e** | **99** | 0.80 | ppbv | **4C** | 2.6 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,2-Dichloroethane | ND | 0.80 | ppbv | ND | 3.2 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Trichloroethene | ND | 0.80 | ppbv | ND | 4.3 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,2-Dichloropropane | ND | 0.80 | ppbv | ND | 3.7 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Bromodichloromethane | ND | 0.80 | ppbv | ND | 5.4 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| cis-1,3-Dichloropropene | ND | 0.80 | ppbv | ND | 3.6 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 4-Methyl-2-Pentanone | ND | 0.80 | ppbv | ND | 3.3 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **T. I2e#e** | **z6R** | 0.80 | ppbv | **563** | 3.0 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| trans-1,3-Dichloropropene | ND | 0.80 | ppbv | ND | 3.6 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,1,2-Trichloroethane | ND | 0.80 | ppbv | ND | 4.4 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **TenyaSVl. y. enVe#e** | **963** | 0.80 | ppbv | **v65** | 5.4 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 2-Hexanone | ND | 2.0 | ppbv | ND | 8.2 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Dibromochloromethane | ND | 0.80 | ppbv | ND | 6.8 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,2-Dibromoethane | ND | 0.80 | ppbv | ND | 6.1 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Chlorobenzene | ND | 0.80 | ppbv | ND | 3.7 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Ethylbenzene | ND | 0.80 | ppbv | ND | 3.5 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **t Ht0XPle#er** | **96v** | 1.6 | ppbv | **f 63** | 6.9 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| **. 0XPle#e** | **96z** | 0.80 | ppbv | **x6R** | 3.5 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Styrene | ND | 0.80 | ppbv | ND | 3.4 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| Bromoform | ND | 0.80 | ppbv | ND | 8.3 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,1,2,2-Tetrachloroethane | ND | 0.80 | ppbv | ND | 5.5 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,1,1,2-Tetrachloroethane | ND | 0.80 | ppbv | ND | 5.5 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 4-Ethyltoluene | ND | 0.80 | ppbv | ND | 3.9 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |
| 1,3,5-Trimethylbenzene | ND | 0.80 | ppbv | ND | 3.9 | ug/m3 | 4.000 | 342291 | 06/08/24 17:59 | ZNZ |

ENTHALPY ANALYTICAL

# E#nVaIcP h#aIPriSaI 0Oya#ge h#aIPriSaI bec. yn

**paL ):** 509527 **My. jeSn):** 1793.0030S000

**olie#n:** Roux Associates **p. Sari. #:** AB&I Foundry

| xRvxz50R9v h#aIPre | ber2In7-1 | bp7-1 | u#in-7-1 | ber2In7A1 | bp7A1 | u#in-7A1 | Dil# FaS (arSV) | h#aIPUed | h#aIPrn |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 0.80 | ppbv | ND | 3.9 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |
| 1,3-Dichlorobenzene | ND | 0.80 | ppbv | ND | 4.8 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |
| 1,4-Dichlorobenzene | ND | 0.80 | ppbv | ND | 4.8 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |
| Benzyl chloride | ND | 0.80 | ppbv | ND | 4.1 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |
| 1,2-Dichlorobenzene | ND | 0.80 | ppbv | ND | 4.8 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |
| 1,2,4-Trichlorobenzene | ND | 0.80 | ppbv | ND | 5.9 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |
| Hexachlorobutadiene | ND | 0.80 | ppbv | ND | 8.5 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |
| Naphthalene | ND | 4.0 | ppbv | ND | 21 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |
| **XPIe#e 7n nal1** | **469** | 0.80 | ppbv | **94** | 3.5 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |

| xRvxz50R9v B2yy. gare | %bEo | pit in- | u#in-7A1 | Dil# FaS (arSV) | h#aIPUed | h#aIPrn |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 107 | 60-140 | ug/m3 | 4.000 342291 | 06/08/24 17:59 | ZNZ |

Legend

**ND:** Not Detected

**bp7-1:** Reporting Limit

**ber2In7A1:** Result in mass units

**ber2In7-1:** Result in volume units

# Enthalpy Analytical - Orange Analytical RepUrt

**Lab #:** 40M417 **PrUject#:** 97M3.0030S000

**Client:** Roux i ssocrates **LUcatiUn:** i B&l Found6y

**Field ID:** SVP-41-8 **Batch#:** 32198M **Prep:** E THOD5

**Lab ID:** 40M417-010 **Sampled:** 04/39/12 94:3A **Analysis:** TPi HD-94

**Matrix:** i r6 **Received:** 0A/02/12 **Analyst:** E BC

**Diln Fac:** 1.300 **Analyzed:** 0A/08/12 03:20

| 509527-020 Analyte | Res1lt u( V | RL u( V | ) nits u( V | Res1lt uMV | RL uMV | ) nits uMV |
|---|---|---|---|---|---|---|
| 9,9-5 rfluo6oethane | N5 | 1.3 | ppbv | N5 | A.1 | ug/m3 |
| **FreUn o2** | **0.50** | 0.2A | ppbv | **2.5** | 1.3 | ug/m3 |
| F6eon 992 | N5 | 0.2A | ppbv | N5 | 3.1 | ug/m3 |
| **ChlUrUmethane** | **o.o** | 0.2A | ppbv | **2.3** | 0.M4 | ug/m3 |
| Vmyl Chlo6de | N5 | 0.2A | ppbv | N5 | 9.1 | ug/m3 |
| B6omomethane | N5 | 0.2A | ppbv | N5 | 9.8 | ug/m3 |
| **ChlUrUethane** | **0.86** | 0.2A | ppbv | **o.7** | 9.1 | ug/m3 |
| H6chlo6ofluo6omethane | N5 | 0.2A | ppbv | N5 | 1.A | ug/m3 |
| 9,9-5 rchlo6oethene | N5 | 0.2A | ppbv | N5 | 9.8 | ug/m3 |
| F6eon 993 | N5 | 0.2A | ppbv | N5 | 3.4 | ug/m3 |
| **AcetUne** | **22** | 1.3 | ppbv | **53** | 4.4 | ug/m3 |
| **CarbUn Dis1lfide** | **o6** | 0.2A | ppbv | **66** | 9.2 | ug/m3 |
| **IsUprUpanUl ulPAV** | **o5** | 1.3 | ppbv | **34** | 4.7 | ug/m3 |
| **Methylene ChlUride** | **0.73** | 0.2A | ppbv | **2.5** | 9.A | ug/m3 |
| t6ans-9,1-5 rchlo6oethene | N5 | 0.2A | ppbv | N5 | 9.8 | ug/m3 |
| E HBT | N5 | 0.2A | ppbv | N5 | 9.7 | ug/m3 |
| **n-Hexane** | **5.9** | 0.2A | ppbv | **2o** | 9.A | ug/m3 |
| 9,9-5 rchlo6oethane | N5 | 0.2A | ppbv | N5 | 9.M | ug/m3 |
| Vmyl i cetate | N5 | 1.3 | ppbv | N5 | 8.9 | ug/m3 |
| crs-9,1-5 rchlo6oethene | N5 | 0.2A | ppbv | N5 | 9.8 | ug/m3 |
| **2-B1tanUne** | **6.9** | 1.3 | ppbv | **o6** | A.8 | ug/m3 |
| **ChlUrUfUrm** | **o.9** | 0.2A | ppbv | **9.o** | 1.1 | ug/m3 |
| 9,9,9-H6chlo6oethane | N5 | 0.2A | ppbv | N5 | 1.4 | ug/m3 |
| Ca6bon Het6achlo6de | N5 | 0.2A | ppbv | N5 | 1.M | ug/m3 |
| **Benzene** | **2.6** | 0.2A | ppbv | **7.8** | 9.4 | ug/m3 |
| 9,1-5 rchlo6oethane | N5 | 0.2A | ppbv | N5 | 9.M | ug/m3 |
| H6chlo6oethene | N5 | 0.2A | ppbv | N5 | 1.4 | ug/m3 |
| 9,1-5 rchlo6op6opane | N5 | 0.2A | ppbv | N5 | 1.9 | ug/m3 |
| B6omodrchlo6omethane | N5 | 0.2A | ppbv | N5 | 3.9 | ug/m3 |
| crs-9,3-5 rchlo6op6opene | N5 | 0.2A | ppbv | N5 | 1.9 | ug/m3 |
| **6-Methyl-2-PentanUne** | **o.7** | 0.2A | ppbv | **8.9** | 9.M | ug/m3 |
| **TUl1ene** | **o2** | 0.2A | ppbv | **68** | 9.7 | ug/m3 |
| t6ans-9,3-5 rchlo6op6opene | N5 | 0.2A | ppbv | N5 | 1.9 | ug/m3 |
| 9,9,1-H6chlo6oethane | N5 | 0.2A | ppbv | N5 | 1.4 | ug/m3 |
| Het6achlo6ethene | N5 | 0.2A | ppbv | N5 | 3.9 | ug/m3 |
| 1-Oexanone | N5 | 9.1 | ppbv | N5 | 2.7 | ug/m3 |
| 5 rb6omochlo6omethane | N5 | 0.2A | ppbv | N5 | 3.M | ug/m3 |
| 9,1-5 rb6omoethane | N5 | 0.2A | ppbv | N5 | 3.4 | ug/m3 |
| Chlo6obenzene | N5 | 0.2A | ppbv | N5 | 1.9 | ug/m3 |
| **Ethylbenzene** | **o.0** | 0.2A | ppbv | **6.3** | 1.0 | ug/m3 |
| **m,p-Xylenes** | **6.7** | 0.M1 | ppbv | **20** | 2.0 | ug/m3 |
| **U-Xylene** | **o.3** | 0.2A | ppbv | **5.5** | 1.0 | ug/m3 |
| Sty6ene | N5 | 0.2A | ppbv | N5 | 1.0 | ug/m3 |
| B6omofo6m | N5 | 0.2A | ppbv | N5 | 2.8 | ug/m3 |
| 9,9,1,1-Het6achlo6oethane | N5 | 0.2A | ppbv | N5 | 3.1 | ug/m3 |
| 9,9,9,1-Het6achlo6oethane | N5 | 0.2A | ppbv | N5 | 3.1 | ug/m3 |

# Enthalpy Analytical - Orange Analytical RepUrt

**Lab #:** 40M417 **PrUject#:** 97M3.0030S000

**Client:** Roux i ssocrates **LUcatiUn:** i B&l Found6y

| 509527-020 Analyte | Res1lt u( V | RL u( V | ) nits u( V | Res1lt uMV | RL uMV | ) nits uMV |
|---|---|---|---|---|---|---|
| 2-Tthyltoluene | N5 | 0.2A | ppbv | N5 | 1.3 | ug/m3 |
| **o,3,5-Trimethylbenzene** | **0.7o** | 0.2A | ppbv | **3.5** | 1.3 | ug/m3 |
| **o,2,6-Trimethylbenzene** | **o.7** | 0.2A | ppbv | **4.2** | 1.3 | ug/m3 |
| 9,3-5 rchlo6obenzene | N5 | 0.2A | ppbv | N5 | 1.8 | ug/m3 |
| 9,2-5 rchlo6obenzene | N5 | 0.2A | ppbv | N5 | 1.8 | ug/m3 |
| Benzyl chlo6ride | N5 | 0.2A | ppbv | N5 | 1.2 | ug/m3 |
| 9,1-5 rchlo6obenzene | N5 | 0.2A | ppbv | N5 | 1.8 | ug/m3 |
| 9,1,2-H6chlo6obenzene | N5 | 0.2A | ppbv | N5 | 3.2 | ug/m3 |
| Oexachlo6obutadrene | N5 | 0.2A | ppbv | N5 | 2.M | ug/m3 |
| Naphthalene | N5 | 1.3 | ppbv | N5 | 91 | ug/m3 |
| **Xylene utUtalV** | **5.9** | 0.2A | ppbv | **28** | 1.0 | ug/m3 |

| 509527-020 S1rrUgate | %REC | Limits | ) nits uMV |
|---|---|---|---|
| B6mofluo6obenzene | 90A | A0-920 | ug/m3 |

Legend

**ND:** Not 5etected

**RL u( V** Repo8mg Lmrt

**Res1lt uMV** Result m mass unrts

**Res1lt u( V** Result m volume unrts

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 3CD315 **Project#:** 05D8N0C8CSCCO
**Client:** ( ul &/: xxucAneox **Location:** : B) s/mul adiC

| | | | | | |
|---|---|---|---|---|---|
| **Field ID:** | SVP-13-3 | **Batch#:** | 841843 | **Prep:** | 2 9METH |
| **Lab ID:** | 3CD315-O10 | **Sampled:** | O76C8614/03 45 | **Analysis:** | 9P: /MT-03 |
| **Matrix:** | : A | **Received:** | O76C4614 | **Analyst:** | r Zr |
| **Diln Fac:** | 1ON0O | **Analyzed:** | O76OC614/03 83 | | |

| 509527-021 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 0.0-HAfl uiuoet hao | ZH | 1O | nnpb | ZH | 34 | I v@g 8 |
| mioua/01 | ZH | 4ND | nnpb | ZH | 1O | I v@g 8 |
| mioua/004 | ZH | 4ND | nnpb | ZH | 1F | I v@g 8 |
| y t fuiug oet hao | ZH | 4ND | nnpb | ZH | FN8 | I v@g 8 |
| VAaCf/y t fuiAdo | ZH | 4ND | nnpb | ZH | 0O | I v@g 8 |
| Biug ug oet hao | ZH | 4ND | nnpb | ZH | 07 | I v@g 8 |
| y t fuiuoet hao | ZH | 4ND | nnpb | ZH | 00 | I v@g 8 |
| MAst fuiu,fl uiug oet hao | ZH | 4ND | nnpb | ZH | 11 | I v@g 8 |
| 0.0-HAst fuiuoet oao | ZH | 4ND | nnpb | ZH | 07 | I v@g 8 |
| mioua/008 | ZH | 4ND | nnpb | ZH | 80 | I v@g 8 |
| : coeuao | ZH | 1O | nnpb | ZH | 4F | I v@g 8 |
| **Carbon Disulfide** | **7.4** | 4ND | nnpb | **23** | 01 | I v@g 8 |
| sxuniunhauf/zsP: X | ZH | 1O | nnpb | ZH | 4D | I v@g 8 |
| 2 oet Cfoao/y t fuiAdo | ZH | 4ND | nnpb | ZH | 04 | I v@g 8 |
| ehax-0.1-HAst fuiuoet oao | ZH | 4ND | nnpb | ZH | 07 | I v@g 8 |
| 2 MB9 | ZH | 4ND | nnpb | ZH | 04 | I v@g 8 |
| **n-Hexane** | **270** | 4ND | nnpb | **940** | 04 | I v@g 8 |
| 0.0-HAst fuiuoet hao | ZH | 4ND | nnpb | ZH | 07 | I v@g 8 |
| VAaCf/: coehoo | ZH | 1O | nnpb | ZH | 5O | I v@g 8 |
| cAx-0.1-HAst fuiuoet oao | ZH | 4ND | nnpb | ZH | 07 | I v@g 8 |
| 1-BI ehauao | ZH | 1O | nnpb | ZH | 3D | I v@g 8 |
| **Chloroform** | **6.1** | 4ND | nnpb | **30** | 1O | I v@g 8 |
| 0.0.0-MAst fuiuoet hao | ZH | 4ND | nnpb | ZH | 11 | I v@g 8 |
| y hipua/Mbehct fuiAdo | ZH | 4ND | nnpb | ZH | 13 | I v@g 8 |
| BoaPbao | ZH | 4ND | nnpb | ZH | 08 | I v@g 8 |
| 0.1-HAst fuiuoet hao | ZH | 4ND | nnpb | ZH | 07 | I v@g 8 |
| **Trichloroethene** | **12** | 4ND | nnpb | **65** | 10 | I v@g 8 |
| 0.1-HAst fuiuniunhao | ZH | 4ND | nnpb | ZH | 0F | I v@g 8 |
| Biug udAst fuiug oet hao | ZH | 4ND | nnpb | ZH | 15 | I v@g 8 |
| cAx-0.8-HAst fuiuniunoao | ZH | 4ND | nnpb | ZH | 0F | I v@g 8 |
| 4-2 oet Cf-1-Poaehauao | ZH | 4ND | nnpb | ZH | 07 | I v@g 8 |
| **Toluene** | **14** | 4ND | nnpb | **54** | 03 | I v@g 8 |
| ehax-0.8-HAst fuiuniunoao | ZH | 4ND | nnpb | ZH | 0F | I v@g 8 |
| 0.0.1-MAst fuiuoet hao | ZH | 4ND | nnpb | ZH | 11 | I v@g 8 |
| **Tetrachloroethene** | **40** | 4ND | nnpb | **270** | 15 | I v@g 8 |
| 1-Eo&hauao | ZH | 0O | nnpb | ZH | 40 | I v@g 8 |
| HApiug uct fuiug oet hao | ZH | 4ND | nnpb | ZH | 84 | I v@g 8 |
| 0.1-HApiug uoet hao | ZH | 4ND | nnpb | ZH | 80 | I v@g 8 |
| y t fuiupoaPbao | ZH | 4ND | nnpb | ZH | 0F | I v@g 8 |
| 9et CfpoaPbao | ZH | 4ND | nnpb | ZH | 05 | I v@g 8 |
| **m,p-Xylenes** | **10** | FND | nnpb | **45** | 83 | I v@g 8 |
| u-I Cfoao | ZH | 4ND | nnpb | ZH | 05 | I v@g 8 |
| SeCloao | ZH | 4ND | nnpb | ZH | 05 | I v@g 8 |
| Biug u,uig | ZH | 4ND | nnpb | ZH | 40 | I v@g 8 |
| 0.0.1.1-Mbehct fuiuoet hao | ZH | 4ND | nnpb | ZH | 15 | I v@g 8 |
| 0.0.0.1-Mbehct fuiuoet hao | ZH | 4ND | nnpb | ZH | 15 | I v@g 8 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 3CD315 **Project#:** 05D8N0C8CSCCO

**Client:** ( ul &/: xxucAneox **Location:** : B) s/mul adiC

| 509527-021 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 4-9et CfeufI oao | ZH | 4ND | nnpb | ZH | 1O | I v6g 8 |
| 0.8.3-MAg oet CfpoaPbao | ZH | 4ND | nnpb | ZH | 1O | I v6g 8 |
| 0.1.4-MAg oet CfpoaPbao | ZH | 4ND | nnpb | ZH | 1O | I v6g 8 |
| 0.8-HAst fuiupoaPbao | ZH | 4ND | nnpb | ZH | 14 | I v6g 8 |
| 0.4-HAst fuiupoaPbao | ZH | 4ND | nnpb | ZH | 14 | I v6g 8 |
| BoaRCf/ct fuiAslo | ZH | 4ND | nnpb | ZH | 10 | I v6g 8 |
| 0.1-HAst fuiupoaPbao | ZH | 4ND | nnpb | ZH | 14 | I v6g 8 |
| 0.1.4-MAst fuiupoaPbao | ZH | 4ND | nnpb | ZH | 8O | I v6g 8 |
| Eo&hct fuiupI endAbao | ZH | 4ND | nnpb | ZH | 48 | I v6g 8 |
| Zhnt et hfoao | ZH | 1O | nnpb | ZH | 0CO | I v6g 8 |
| **Xylene (total)** | **10** | 4ND | nnpb | **45** | 05 | I v6g 8 |

| 509527-021 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Biug u,fl uiupoaPbao | D4 | 7O-04O | I v6g 8 |

Lovoad

**ND:** ZueHoeocaod

**RL (V):** ( onuieAav/LAg Ae

**Result (M):** ( oxI fe/Aa/g hxx/I aAx

**Result (V):** ( oxI fe/Aa/bufI g o/I aAx

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** CD0C17 **Project#:** : 704.DD4DSDDD

**Client:** Roux i ((osrate( **Location:** i B&) Founl 6c

**Field ID:** SVP-45-3 **Batch#:** 421425 **Prep:** 8 9METH

**Lab ID:** CD0C17-D11 **Sampled:** D5/D4/12 : 5A41 **Analysis:** 9Pi MT-: O

**Matrix:** i r6 **Received:** D5/D2/12 **Analyst:** 8 BC

**Diln Fac:** 73.DD **Analyzed:** D5/: D/12 : 5A01

| 509527-022 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| : ,: -Hrfluo6oethane | NH | 73 | ppbv | NH | 1: D | ug/m4 |
| F6eon : 1 | NH | : 5 | ppbv | NH | 77 | ug/m4 |
| F6eon : : 2 | NH | : 5 | ppbv | NH | : : D | ug/m4 |
| Chlo6omethane | NH | : 5 | ppbv | NH | 41 | ug/m4 |
| Vmcl Chlo6l e | NH | : 5 | ppbv | NH | 2D | ug/m4 |
| B6omomethane | NH | : 5 | ppbv | NH | 5: | ug/m4 |
| **Chloroethane** | **630** | : 5 | ppbv | **1,700** | 2: | ug/m4 |
| M8shlo6ofluo6omethane | NH | : 5 | ppbv | NH | 33 | ug/m4 |
| : ,: -Hrshlo6oethene | NH | : 5 | ppbv | NH | 51 | ug/m4 |
| F6eon : : 4 | NH | : 5 | ppbv | NH | : 1D | ug/m4 |
| i setone | NH | 73 | ppbv | NH | : 0D | ug/m4 |
| Ca6bon Hr(ulfrl e | NH | : 5 | ppbv | NH | 20 | ug/m4 |
| )(op6panol y)Pi d | NH | 73 | ppbv | NH | : 0D | ug/m4 |
| 8 ethclene Chlo6l e | NH | : 5 | ppbv | NH | O2 | ug/m4 |
| t6an(-: ,1-Hrshlo6oethene | NH | : 5 | ppbv | NH | 51 | ug/m4 |
| 8 MB9 | NH | : 5 | ppbv | NH | O5 | ug/m4 |
| **n-Hexane** | **2,700** | : 5 | ppbv | **9,400** | OO | ug/m4 |
| **1,1-Dichloroethane** | **17** | : 5 | ppbv | **68** | 54 | ug/m4 |
| Vmcl i setate | NH | 73 | ppbv | NH | 17D | ug/m4 |
| sr(-: ,1-Hrshlo6oethene | NH | : 5 | ppbv | NH | 51 | ug/m4 |
| 1-Butanone | NH | 73 | ppbv | NH | 14D | ug/m4 |
| Chlo6ofo6m | NH | : 5 | ppbv | NH | 75 | ug/m4 |
| : ,: ,: -M8shlo6oethane | NH | : 5 | ppbv | NH | 3O | ug/m4 |
| Ca6bon Met6ashlo6l e | NH | : 5 | ppbv | NH | 03 | ug/m4 |
| **Benzene** | **25** | : 5 | ppbv | **80** | OD | ug/m4 |
| : ,1-Hrshlo6oethane | NH | : 5 | ppbv | NH | 54 | ug/m4 |
| M8shlo6oethene | NH | : 5 | ppbv | NH | 32 | ug/m4 |
| : ,1-Hrshlo6op6opane | NH | : 5 | ppbv | NH | 71 | ug/m4 |
| B6omol rshlo6omethane | NH | : 5 | ppbv | NH | : DD | ug/m4 |
| sr(-: ,4-Hrshlo6op6opene | NH | : 5 | ppbv | NH | 7: | ug/m4 |
| 2-8 ethcl-1-Pentanone | NH | : 5 | ppbv | NH | 52 | ug/m4 |
| **Toluene** | **20** | : 5 | ppbv | **75** | O0 | ug/m4 |
| t6an(-: ,4-Hrshlo6op6opene | NH | : 5 | ppbv | NH | 7: | ug/m4 |
| : ,: ,1-M8shlo6oethane | NH | : 5 | ppbv | NH | 3O | ug/m4 |
| Met6ashlo6ethene | NH | : 5 | ppbv | NH | : : D | ug/m4 |
| 1-Eexanone | NH | 40 | ppbv | NH | : 5D | ug/m4 |
| Hrb6omoshlo6omethane | NH | : 5 | ppbv | NH | : 4D | ug/m4 |
| : ,1-Hrb6omoethane | NH | : 5 | ppbv | NH | : 1D | ug/m4 |
| Chlo6obenzene | NH | : 5 | ppbv | NH | 71 | ug/m4 |
| 9thclbenzene | NH | : 5 | ppbv | NH | 53 | ug/m4 |
| m,p-Xclene( | NH | 4: | ppbv | NH | : 2D | ug/m4 |
| **o-Xylene** | **80** | : 5 | ppbv | **350** | 53 | ug/m4 |
| Stc6ene | NH | : 5 | ppbv | NH | 55 | ug/m4 |
| B6omofo6m | NH | : 5 | ppbv | NH | : 5D | ug/m4 |
| : ,: ,1,1-Met6ashlo6oethane | NH | : 5 | ppbv | NH | : : D | ug/m4 |
| : ,: ,: ,1-Met6ashlo6oethane | NH | : 5 | ppbv | NH | : : D | ug/m4 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** CD0C17 **Project#:** : 704.DD4DSDDD

**Client:** Roux i ((osrate( **Location:** i B&) Founl 6c

| 509527-022 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **4-Ethyltoluene** | **45** | : 5 | ppbv | **220** | 77 | ug/m4 |
| **1,3,5-Trimethylbenzene** | **70** | : 5 | ppbv | **340** | 77 | ug/m4 |
| **1,2,4-Trimethylbenzene** | **58** | : 5 | ppbv | **290** | 77 | ug/m4 |
| **1,3-Dichlorobenzene** | **18** | : 5 | ppbv | **110** | 02 | ug/m4 |
| **1,4-Dichlorobenzene** | **69** | : 5 | ppbv | **410** | 02 | ug/m4 |
| Benzcl shlo6l e | NH | : 5 | ppbv | NH | 3: | ug/m4 |
| **1,2-Dichlorobenzene** | **23** | : 5 | ppbv | **140** | 02 | ug/m4 |
| : ,1,2-M6shlo6benzene | NH | : 5 | ppbv | NH | : 1D | ug/m4 |
| Eexashlo6butal rene | NH | : 5 | ppbv | NH | : 7D | ug/m4 |
| Naphthalene | NH | 73 | ppbv | NH | 2: D | ug/m4 |
| **Xylene (total)** | **80** | : 5 | ppbv | **350** | 53 | ug/m4 |

| 509527-022 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| B6mofluo6benzene | 04 | 5D-: 2D | ug/m4 |

Legenl

**ND:** Not Hetestel

**RL (V):** Repo6mg Lmrt

**Result (M):** Re( ult m ma( ( unrt(

**Result (V):** Re( ult m volume unrt(

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Type:** BS **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159415 **Batch#:** 342183 **Analysis:** EPA TO-15

**Matrix:** Air **Analyzed:** 06/07/24 10:58 **Analyst:** ZNZ

| QC1159415 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Difluoroethane | 10.00 | 9.856 | ppbv | 99 | 70-130 |
| Freon 12 | 10.00 | 9.927 | ppbv | 99 | 70-130 |
| Freon 114 | 10.00 | 9.927 | ppbv | 99 | 70-130 |
| Chloromethane | 10.00 | 11.56 | ppbv | 116 | 70-130 |
| Vinyl Chloride | 10.00 | 11.56 | ppbv | 116 | 70-130 |
| Bromomethane | 10.00 | 10.74 | ppbv | 107 | 70-130 |
| Chloroethane | 10.00 | 11.42 | ppbv | 114 | 70-130 |
| Trichlorofluoromethane | 10.00 | 9.522 | ppbv | 95 | 70-130 |
| 1,1-Dichloroethene | 10.00 | 10.30 | ppbv | 103 | 70-130 |
| Freon 113 | 10.00 | 9.672 | ppbv | 97 | 70-130 |
| Acetone | 10.00 | 11.27 | ppbv | 113 | 70-130 |
| Carbon Disulfide | 10.00 | 11.62 | ppbv | 116 | 70-130 |
| Isopropanol (IPA) | 10.00 | 9.091 | ppbv | 91 | 70-130 |
| Methylene Chloride | 10.00 | 10.57 | ppbv | 106 | 70-130 |
| trans-1,2-Dichloroethene | 10.00 | 9.311 | ppbv | 93 | 70-130 |
| MTBE | 10.00 | 9.118 | ppbv | 91 | 70-130 |
| n-Hexane | 10.00 | 9.956 | ppbv | 100 | 70-130 |
| 1,1-Dichloroethane | 10.00 | 9.454 | ppbv | 95 | 70-130 |
| Vinyl Acetate | 10.00 | 8.475 | ppbv | 85 | 70-130 |
| cis-1,2-Dichloroethene | 10.00 | 9.380 | ppbv | 94 | 70-130 |
| 2-Butanone | 10.00 | 9.836 | ppbv | 98 | 70-130 |
| Chloroform | 10.00 | 9.809 | ppbv | 98 | 70-130 |
| 1,1,1-Trichloroethane | 10.00 | 9.702 | ppbv | 97 | 70-130 |
| Carbon Tetrachloride | 10.00 | 10.43 | ppbv | 104 | 70-130 |
| Benzene | 10.00 | 9.913 | ppbv | 99 | 70-130 |
| 1,2-Dichloroethane | 10.00 | 9.184 | ppbv | 92 | 70-130 |
| Trichloroethene | 10.00 | 9.947 | ppbv | 99 | 70-130 |
| 1,2-Dichloropropane | 10.00 | 9.772 | ppbv | 98 | 70-130 |
| Bromodichloromethane | 10.00 | 10.76 | ppbv | 108 | 70-130 |
| cis-1,3-Dichloropropene | 10.00 | 10.55 | ppbv | 106 | 70-130 |
| 4-Methyl-2-Pentanone | 10.00 | 10.13 | ppbv | 101 | 70-130 |
| Toluene | 10.00 | 10.20 | ppbv | 102 | 70-130 |
| trans-1,3-Dichloropropene | 10.00 | 10.45 | ppbv | 104 | 70-130 |
| 1,1,2-Trichloroethane | 10.00 | 10.08 | ppbv | 101 | 70-130 |
| Tetrachloroethene | 10.00 | 9.164 | ppbv | 92 | 70-130 |
| 2-Hexanone | 10.00 | 10.33 | ppbv | 103 | 70-130 |
| Dibromochloromethane | 10.00 | 11.13 | ppbv | 111 | 70-130 |
| 1,2-Dibromoethane | 10.00 | 10.26 | ppbv | 103 | 70-130 |
| Chlorobenzene | 10.00 | 10.17 | ppbv | 102 | 70-130 |
| Ethylbenzene | 10.00 | 10.21 | ppbv | 102 | 70-130 |
| m,p-Xylenes | 20.00 | 20.71 | ppbv | 104 | 70-130 |
| o-Xylene | 10.00 | 10.31 | ppbv | 103 | 70-130 |
| Styrene | 10.00 | 10.63 | ppbv | 106 | 70-130 |
| Bromoform | 10.00 | 11.67 | ppbv | 117 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 10.00 | 10.96 | ppbv | 110 | 70-130 |
| 1,1,1,2-Tetrachloroethane | 10.00 | 10.77 | ppbv | 108 | 70-130 |
| 4-Ethyltoluene | 10.00 | 10.62 | ppbv | 106 | 70-130 |
| 1,3,5-Trimethylbenzene | 10.00 | 10.53 | ppbv | 105 | 70-130 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| QC1159415 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 10.00 | 10.82 | ppbv | 108 | 70-130 |
| 1,3-Dichlorobenzene | 10.00 | 10.32 | ppbv | 103 | 70-130 |
| 1,4-Dichlorobenzene | 10.00 | 10.17 | ppbv | 102 | 70-130 |
| Benzyl chloride | 10.00 | 11.62 | ppbv | 116 | 70-130 |
| 1,2-Dichlorobenzene | 10.00 | 10.14 | ppbv | 101 | 70-130 |
| 1,2,4-Trichlorobenzene | 10.00 | 10.72 | ppbv | 107 | 70-130 |
| Hexachlorobutadiene | 10.00 | 9.990 | ppbv | 100 | 70-130 |
| Naphthalene | 10.00 | 11.45 | ppbv | 114 | 70-130 |

| QC1159415 Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene | 99 | 60-140 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159416 **Batch#:** 342183 **Analysis:** EPA TO-15

**Matrix:** Air **Analyzed:** 06/07/24 11:43 **Analyst:** ZNZ

| QC1159416 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | 10.00 | 10.33 | ppbv | 103 | 70-130 | 5 | 25 |
| Freon 12 | 10.00 | 9.968 | ppbv | 100 | 70-130 | 0 | 25 |
| Freon 114 | 10.00 | 10.04 | ppbv | 100 | 70-130 | 1 | 25 |
| Chloromethane | 10.00 | 11.54 | ppbv | 115 | 70-130 | 0 | 25 |
| Vinyl Chloride | 10.00 | 11.56 | ppbv | 116 | 70-130 | 0 | 25 |
| Bromomethane | 10.00 | 10.83 | ppbv | 108 | 70-130 | 1 | 25 |
| Chloroethane | 10.00 | 11.35 | ppbv | 113 | 70-130 | 1 | 25 |
| Trichlorofluoromethane | 10.00 | 9.504 | ppbv | 95 | 70-130 | 0 | 25 |
| 1,1-Dichloroethene | 10.00 | 10.32 | ppbv | 103 | 70-130 | 0 | 25 |
| Freon 113 | 10.00 | 9.784 | ppbv | 98 | 70-130 | 1 | 25 |
| Acetone | 10.00 | 11.28 | ppbv | 113 | 70-130 | 0 | 25 |
| Carbon Disulfide | 10.00 | 11.78 | ppbv | 118 | 70-130 | 1 | 25 |
| Isopropanol (IPA) | 10.00 | 9.229 | ppbv | 92 | 70-130 | 2 | 25 |
| Methylene Chloride | 10.00 | 10.57 | ppbv | 106 | 70-130 | 0 | 25 |
| trans-1,2-Dichloroethene | 10.00 | 9.502 | ppbv | 95 | 70-130 | 2 | 25 |
| MTBE | 10.00 | 9.305 | ppbv | 93 | 70-130 | 2 | 25 |
| n-Hexane | 10.00 | 10.16 | ppbv | 102 | 70-130 | 2 | 25 |
| 1,1-Dichloroethane | 10.00 | 9.635 | ppbv | 96 | 70-130 | 2 | 25 |
| Vinyl Acetate | 10.00 | 8.677 | ppbv | 87 | 70-130 | 2 | 25 |
| cis-1,2-Dichloroethene | 10.00 | 9.586 | ppbv | 96 | 70-130 | 2 | 25 |
| 2-Butanone | 10.00 | 9.923 | ppbv | 99 | 70-130 | 1 | 25 |
| Chloroform | 10.00 | 9.926 | ppbv | 99 | 70-130 | 1 | 25 |
| 1,1,1-Trichloroethane | 10.00 | 9.908 | ppbv | 99 | 70-130 | 2 | 25 |
| Carbon Tetrachloride | 10.00 | 10.60 | ppbv | 106 | 70-130 | 2 | 25 |
| Benzene | 10.00 | 10.07 | ppbv | 101 | 70-130 | 2 | 25 |
| 1,2-Dichloroethane | 10.00 | 9.324 | ppbv | 93 | 70-130 | 2 | 25 |
| Trichloroethene | 10.00 | 10.01 | ppbv | 100 | 70-130 | 1 | 25 |
| 1,2-Dichloropropane | 10.00 | 9.888 | ppbv | 99 | 70-130 | 1 | 25 |
| Bromodichloromethane | 10.00 | 10.93 | ppbv | 109 | 70-130 | 2 | 25 |
| cis-1,3-Dichloropropene | 10.00 | 10.73 | ppbv | 107 | 70-130 | 2 | 25 |
| 4-Methyl-2-Pentanone | 10.00 | 10.31 | ppbv | 103 | 70-130 | 2 | 25 |
| Toluene | 10.00 | 10.33 | ppbv | 103 | 70-130 | 1 | 25 |
| trans-1,3-Dichloropropene | 10.00 | 10.67 | ppbv | 107 | 70-130 | 2 | 25 |
| 1,1,2-Trichloroethane | 10.00 | 10.17 | ppbv | 102 | 70-130 | 1 | 25 |
| Tetrachloroethene | 10.00 | 9.256 | ppbv | 93 | 70-130 | 1 | 25 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| QC1159416 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 2-Hexanone | 10.00 | 10.49 | ppbv | 105 | 70-130 | 2 | 25 |
| Dibromochloromethane | 10.00 | 11.27 | ppbv | 113 | 70-130 | 1 | 25 |
| 1,2-Dibromoethane | 10.00 | 10.41 | ppbv | 104 | 70-130 | 1 | 25 |
| Chlorobenzene | 10.00 | 10.26 | ppbv | 103 | 70-130 | 1 | 25 |
| Ethylbenzene | 10.00 | 10.37 | ppbv | 104 | 70-130 | 2 | 25 |
| m,p-Xylenes | 20.00 | 20.98 | ppbv | 105 | 70-130 | 1 | 25 |
| o-Xylene | 10.00 | 10.45 | ppbv | 105 | 70-130 | 1 | 25 |
| Styrene | 10.00 | 10.73 | ppbv | 107 | 70-130 | 1 | 25 |
| Bromoform | 10.00 | 11.77 | ppbv | 118 | 70-130 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 10.00 | 11.15 | ppbv | 111 | 70-130 | 2 | 25 |
| 1,1,1,2-Tetrachloroethane | 10.00 | 10.93 | ppbv | 109 | 70-130 | 1 | 25 |
| 4-Ethyltoluene | 10.00 | 10.75 | ppbv | 107 | 70-130 | 1 | 25 |
| 1,3,5-Trimethylbenzene | 10.00 | 10.65 | ppbv | 107 | 70-130 | 1 | 25 |
| 1,2,4-Trimethylbenzene | 10.00 | 10.98 | ppbv | 110 | 70-130 | 2 | 25 |
| 1,3-Dichlorobenzene | 10.00 | 10.49 | ppbv | 105 | 70-130 | 2 | 25 |
| 1,4-Dichlorobenzene | 10.00 | 10.31 | ppbv | 103 | 70-130 | 1 | 25 |
| Benzyl chloride | 10.00 | 12.01 | ppbv | 120 | 70-130 | 3 | 25 |
| 1,2-Dichlorobenzene | 10.00 | 10.30 | ppbv | 103 | 70-130 | 2 | 25 |
| 1,2,4-Trichlorobenzene | 10.00 | 10.99 | ppbv | 110 | 70-130 | 2 | 25 |
| Hexachlorobutadiene | 10.00 | 10.15 | ppbv | 101 | 70-130 | 2 | 25 |
| Naphthalene | 10.00 | 11.69 | ppbv | 117 | 70-130 | 2 | 25 |

| QC1159416 Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene | 99 | 60-140 |

Legend

**RPD:** Relative Percent Difference

**Result (V):** Result in volume units

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Type:** BLANK **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159417 **Batch#:** 342183 **Analysis:** EPA TO-15

**Matrix:** Air **Analyzed:** 06/07/24 14:05 **Analyst:** ZNZ

| QC1159417 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | ND | 1.0 | ppbv | ND | 2.7 | ug/m3 |
| Freon 12 | ND | 0.20 | ppbv | ND | 0.99 | ug/m3 |
| Freon 114 | ND | 0.20 | ppbv | ND | 1.4 | ug/m3 |
| Chloromethane | ND | 0.20 | ppbv | ND | 0.41 | ug/m3 |
| Vinyl Chloride | ND | 0.20 | ppbv | ND | 0.51 | ug/m3 |
| Bromomethane | ND | 0.20 | ppbv | ND | 0.78 | ug/m3 |
| Chloroethane | ND | 0.20 | ppbv | ND | 0.53 | ug/m3 |
| Trichlorofluoromethane | ND | 0.20 | ppbv | ND | 1.1 | ug/m3 |
| 1,1-Dichloroethene | ND | 0.20 | ppbv | ND | 0.79 | ug/m3 |
| Freon 113 | ND | 0.20 | ppbv | ND | 1.5 | ug/m3 |
| Acetone | ND | 1.0 | ppbv | ND | 2.4 | ug/m3 |
| Carbon Disulfide | ND | 0.20 | ppbv | ND | 0.62 | ug/m3 |
| Isopropanol (IPA) | ND | 1.0 | ppbv | ND | 2.5 | ug/m3 |
| Methylene Chloride | ND | 0.20 | ppbv | ND | 0.69 | ug/m3 |
| trans-1,2-Dichloroethene | ND | 0.20 | ppbv | ND | 0.79 | ug/m3 |
| MTBE | ND | 0.20 | ppbv | ND | 0.72 | ug/m3 |
| n-Hexane | ND | 0.20 | ppbv | ND | 0.70 | ug/m3 |
| 1,1-Dichloroethane | ND | 0.20 | ppbv | ND | 0.81 | ug/m3 |
| Vinyl Acetate | ND | 1.0 | ppbv | ND | 3.5 | ug/m3 |
| cis-1,2-Dichloroethene | ND | 0.20 | ppbv | ND | 0.79 | ug/m3 |
| 2-Butanone | ND | 1.0 | ppbv | ND | 2.9 | ug/m3 |
| Chloroform | ND | 0.20 | ppbv | ND | 0.98 | ug/m3 |
| 1,1,1-Trichloroethane | ND | 0.20 | ppbv | ND | 1.1 | ug/m3 |
| Carbon Tetrachloride | ND | 0.20 | ppbv | ND | 1.3 | ug/m3 |
| Benzene | ND | 0.20 | ppbv | ND | 0.64 | ug/m3 |
| 1,2-Dichloroethane | ND | 0.20 | ppbv | ND | 0.81 | ug/m3 |
| Trichloroethene | ND | 0.20 | ppbv | ND | 1.1 | ug/m3 |
| 1,2-Dichloropropane | ND | 0.20 | ppbv | ND | 0.92 | ug/m3 |
| Bromodichloromethane | ND | 0.20 | ppbv | ND | 1.3 | ug/m3 |
| cis-1,3-Dichloropropene | ND | 0.20 | ppbv | ND | 0.91 | ug/m3 |
| 4-Methyl-2-Pentanone | ND | 0.20 | ppbv | ND | 0.82 | ug/m3 |
| Toluene | ND | 0.20 | ppbv | ND | 0.75 | ug/m3 |
| trans-1,3-Dichloropropene | ND | 0.20 | ppbv | ND | 0.91 | ug/m3 |
| 1,1,2-Trichloroethane | ND | 0.20 | ppbv | ND | 1.1 | ug/m3 |
| Tetrachloroethene | ND | 0.20 | ppbv | ND | 1.4 | ug/m3 |
| 2-Hexanone | ND | 0.50 | ppbv | ND | 2.0 | ug/m3 |
| Dibromochloromethane | ND | 0.20 | ppbv | ND | 1.7 | ug/m3 |
| 1,2-Dibromoethane | ND | 0.20 | ppbv | ND | 1.5 | ug/m3 |
| Chlorobenzene | ND | 0.20 | ppbv | ND | 0.92 | ug/m3 |
| Ethylbenzene | ND | 0.20 | ppbv | ND | 0.87 | ug/m3 |
| m,p-Xylenes | ND | 0.40 | ppbv | ND | 1.7 | ug/m3 |
| o-Xylene | ND | 0.20 | ppbv | ND | 0.87 | ug/m3 |
| Styrene | ND | 0.20 | ppbv | ND | 0.85 | ug/m3 |
| Bromoform | ND | 0.20 | ppbv | ND | 2.1 | ug/m3 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ppbv | ND | 1.4 | ug/m3 |
| 1,1,1,2-Tetrachloroethane | ND | 0.20 | ppbv | ND | 1.4 | ug/m3 |
| 4-Ethyltoluene | ND | 0.20 | ppbv | ND | 0.98 | ug/m3 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ppbv | ND | 0.98 | ug/m3 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| QC1159417 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 0.20 | ppbv | ND | 0.98 | ug/m3 |
| 1,3-Dichlorobenzene | ND | 0.20 | ppbv | ND | 1.2 | ug/m3 |
| 1,4-Dichlorobenzene | ND | 0.20 | ppbv | ND | 1.2 | ug/m3 |
| Benzyl chloride | ND | 0.20 | ppbv | ND | 1.0 | ug/m3 |
| 1,2-Dichlorobenzene | ND | 0.20 | ppbv | ND | 1.2 | ug/m3 |
| 1,2,4-Trichlorobenzene | ND | 0.20 | ppbv | ND | 1.5 | ug/m3 |
| Hexachlorobutadiene | ND | 0.20 | ppbv | ND | 2.1 | ug/m3 |
| Naphthalene | ND | 1.0 | ppbv | ND | 5.2 | ug/m3 |
| Xylene (total) | ND | 0.20 | ppbv | ND | 0.87 | ug/m3 |

| QC1159417 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bromofluorobenzene | 100 | 60-140 | ug/m3 |

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Type:** BS **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159430 **Batch#:** 342189 **Analysis:** EPA TO-15

**Matrix:** Air **Analyzed:** 06/07/24 11:13 **Analyst:** ZNZ

| QC1159430 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Difluoroethane | 10.00 | 9.178 | ppbv | 92 | 70-130 |
| Freon 12 | 10.00 | 8.838 | ppbv | 88 | 70-130 |
| Freon 114 | 10.00 | 9.151 | ppbv | 92 | 70-130 |
| Chloromethane | 10.00 | 8.584 | ppbv | 86 | 70-130 |
| Vinyl Chloride | 10.00 | 8.746 | ppbv | 87 | 70-130 |
| Bromomethane | 10.00 | 9.058 | ppbv | 91 | 70-130 |
| Chloroethane | 10.00 | 8.654 | ppbv | 87 | 70-130 |
| Trichlorofluoromethane | 10.00 | 9.236 | ppbv | 92 | 70-130 |
| 1,1-Dichloroethene | 10.00 | 9.115 | ppbv | 91 | 70-130 |
| Freon 113 | 10.00 | 9.192 | ppbv | 92 | 70-130 |
| Acetone | 10.00 | 8.398 | ppbv | 84 | 70-130 |
| Carbon Disulfide | 10.00 | 9.347 | ppbv | 93 | 70-130 |
| Isopropanol (IPA) | 10.00 | 8.923 | ppbv | 89 | 70-130 |
| Methylene Chloride | 10.00 | 8.937 | ppbv | 89 | 70-130 |
| trans-1,2-Dichloroethene | 10.00 | 9.149 | ppbv | 91 | 70-130 |
| MTBE | 10.00 | 9.477 | ppbv | 95 | 70-130 |
| n-Hexane | 10.00 | 9.011 | ppbv | 90 | 70-130 |
| 1,1-Dichloroethane | 10.00 | 9.235 | ppbv | 92 | 70-130 |
| Vinyl Acetate | 10.00 | 8.208 | ppbv | 82 | 70-130 |
| cis-1,2-Dichloroethene | 10.00 | 9.018 | ppbv | 90 | 70-130 |
| 2-Butanone | 10.00 | 9.736 | ppbv | 97 | 70-130 |
| Chloroform | 10.00 | 9.261 | ppbv | 93 | 70-130 |
| 1,1,1-Trichloroethane | 10.00 | 9.427 | ppbv | 94 | 70-130 |
| Carbon Tetrachloride | 10.00 | 9.254 | ppbv | 93 | 70-130 |
| Benzene | 10.00 | 9.131 | ppbv | 91 | 70-130 |
| 1,2-Dichloroethane | 10.00 | 9.086 | ppbv | 91 | 70-130 |
| Trichloroethene | 10.00 | 9.670 | ppbv | 97 | 70-130 |
| 1,2-Dichloropropane | 10.00 | 8.708 | ppbv | 87 | 70-130 |
| Bromodichloromethane | 10.00 | 9.583 | ppbv | 96 | 70-130 |
| cis-1,3-Dichloropropene | 10.00 | 9.711 | ppbv | 97 | 70-130 |
| 4-Methyl-2-Pentanone | 10.00 | 9.860 | ppbv | 99 | 70-130 |
| Toluene | 10.00 | 9.828 | ppbv | 98 | 70-130 |
| trans-1,3-Dichloropropene | 10.00 | 9.895 | ppbv | 99 | 70-130 |
| 1,1,2-Trichloroethane | 10.00 | 9.724 | ppbv | 97 | 70-130 |
| Tetrachloroethene | 10.00 | 10.42 | ppbv | 104 | 70-130 |
| 2-Hexanone | 10.00 | 10.19 | ppbv | 102 | 70-130 |
| Dibromochloromethane | 10.00 | 10.03 | ppbv | 100 | 70-130 |
| 1,2-Dibromoethane | 10.00 | 10.10 | ppbv | 101 | 70-130 |
| Chlorobenzene | 10.00 | 9.964 | ppbv | 100 | 70-130 |
| Ethylbenzene | 10.00 | 10.93 | ppbv | 109 | 70-130 |
| m,p-Xylenes | 20.00 | 22.19 | ppbv | 111 | 70-130 |
| o-Xylene | 10.00 | 11.24 | ppbv | 112 | 70-130 |
| Styrene | 10.00 | 11.33 | ppbv | 113 | 70-130 |
| Bromoform | 10.00 | 10.49 | ppbv | 105 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 10.00 | 10.29 | ppbv | 103 | 70-130 |
| 1,1,1,2-Tetrachloroethane | 10.00 | 9.948 | ppbv | 99 | 70-130 |
| 4-Ethyltoluene | 10.00 | 12.26 | ppbv | 123 | 70-130 |
| 1,3,5-Trimethylbenzene | 10.00 | 11.28 | ppbv | 113 | 70-130 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| QC1159430 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 10.00 | 11.86 | ppbv | 119 | 70-130 |
| 1,3-Dichlorobenzene | 10.00 | 10.34 | ppbv | 103 | 70-130 |
| 1,4-Dichlorobenzene | 10.00 | 10.15 | ppbv | 102 | 70-130 |
| Benzyl chloride | 10.00 | 11.34 | ppbv | 113 | 70-130 |
| 1,2-Dichlorobenzene | 10.00 | 10.74 | ppbv | 107 | 70-130 |
| 1,2,4-Trichlorobenzene | 10.00 | 10.26 | ppbv | 103 | 70-130 |
| Hexachlorobutadiene | 10.00 | 10.24 | ppbv | 102 | 70-130 |
| Naphthalene | 10.00 | 11.42 | ppbv | 114 | 70-130 |

| QC1159430 Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene | 110 | 60-140 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159431 **Batch#:** 342189 **Analysis:** EPA TO-15

**Matrix:** Air **Analyzed:** 06/07/24 11:55 **Analyst:** ZNZ

| QC1159431 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | 10.00 | 9.039 | ppbv | 90 | 70-130 | 2 | 25 |
| Freon 12 | 10.00 | 8.795 | ppbv | 88 | 70-130 | 0 | 25 |
| Freon 114 | 10.00 | 9.173 | ppbv | 92 | 70-130 | 0 | 25 |
| Chloromethane | 10.00 | 8.575 | ppbv | 86 | 70-130 | 0 | 25 |
| Vinyl Chloride | 10.00 | 8.824 | ppbv | 88 | 70-130 | 1 | 25 |
| Bromomethane | 10.00 | 9.123 | ppbv | 91 | 70-130 | 1 | 25 |
| Chloroethane | 10.00 | 8.541 | ppbv | 85 | 70-130 | 1 | 25 |
| Trichlorofluoromethane | 10.00 | 9.163 | ppbv | 92 | 70-130 | 1 | 25 |
| 1,1-Dichloroethene | 10.00 | 9.029 | ppbv | 90 | 70-130 | 1 | 25 |
| Freon 113 | 10.00 | 9.422 | ppbv | 94 | 70-130 | 2 | 25 |
| Acetone | 10.00 | 8.771 | ppbv | 88 | 70-130 | 4 | 25 |
| Carbon Disulfide | 10.00 | 9.333 | ppbv | 93 | 70-130 | 0 | 25 |
| Isopropanol (IPA) | 10.00 | 8.883 | ppbv | 89 | 70-130 | 0 | 25 |
| Methylene Chloride | 10.00 | 9.009 | ppbv | 90 | 70-130 | 1 | 25 |
| trans-1,2-Dichloroethene | 10.00 | 8.898 | ppbv | 89 | 70-130 | 3 | 25 |
| MTBE | 10.00 | 9.241 | ppbv | 92 | 70-130 | 3 | 25 |
| n-Hexane | 10.00 | 8.947 | ppbv | 89 | 70-130 | 1 | 25 |
| 1,1-Dichloroethane | 10.00 | 8.839 | ppbv | 88 | 70-130 | 4 | 25 |
| Vinyl Acetate | 10.00 | 7.982 | ppbv | 80 | 70-130 | 3 | 25 |
| cis-1,2-Dichloroethene | 10.00 | 8.952 | ppbv | 90 | 70-130 | 1 | 25 |
| 2-Butanone | 10.00 | 9.432 | ppbv | 94 | 70-130 | 3 | 25 |
| Chloroform | 10.00 | 9.242 | ppbv | 92 | 70-130 | 0 | 25 |
| 1,1,1-Trichloroethane | 10.00 | 9.420 | ppbv | 94 | 70-130 | 0 | 25 |
| Carbon Tetrachloride | 10.00 | 9.263 | ppbv | 93 | 70-130 | 0 | 25 |
| Benzene | 10.00 | 9.069 | ppbv | 91 | 70-130 | 1 | 25 |
| 1,2-Dichloroethane | 10.00 | 9.010 | ppbv | 90 | 70-130 | 1 | 25 |
| Trichloroethene | 10.00 | 9.475 | ppbv | 95 | 70-130 | 2 | 25 |
| 1,2-Dichloropropane | 10.00 | 8.504 | ppbv | 85 | 70-130 | 2 | 25 |
| Bromodichloromethane | 10.00 | 9.444 | ppbv | 94 | 70-130 | 1 | 25 |
| cis-1,3-Dichloropropene | 10.00 | 9.475 | ppbv | 95 | 70-130 | 2 | 25 |
| 4-Methyl-2-Pentanone | 10.00 | 9.752 | ppbv | 98 | 70-130 | 1 | 25 |
| Toluene | 10.00 | 9.802 | ppbv | 98 | 70-130 | 0 | 25 |
| trans-1,3-Dichloropropene | 10.00 | 9.921 | ppbv | 99 | 70-130 | 0 | 25 |
| 1,1,2-Trichloroethane | 10.00 | 9.547 | ppbv | 95 | 70-130 | 2 | 25 |
| Tetrachloroethene | 10.00 | 10.53 | ppbv | 105 | 70-130 | 1 | 25 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| QC1159431 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 2-Hexanone | 10.00 | 10.13 | ppbv | 101 | 70-130 | 1 | 25 |
| Dibromochloromethane | 10.00 | 9.883 | ppbv | 99 | 70-130 | 1 | 25 |
| 1,2-Dibromoethane | 10.00 | 9.967 | ppbv | 100 | 70-130 | 1 | 25 |
| Chlorobenzene | 10.00 | 9.597 | ppbv | 96 | 70-130 | 4 | 25 |
| Ethylbenzene | 10.00 | 10.54 | ppbv | 105 | 70-130 | 4 | 25 |
| m,p-Xylenes | 20.00 | 21.43 | ppbv | 107 | 70-130 | 3 | 25 |
| o-Xylene | 10.00 | 10.90 | ppbv | 109 | 70-130 | 3 | 25 |
| Styrene | 10.00 | 11.18 | ppbv | 112 | 70-130 | 1 | 25 |
| Bromoform | 10.00 | 10.17 | ppbv | 102 | 70-130 | 3 | 25 |
| 1,1,2,2-Tetrachloroethane | 10.00 | 9.730 | ppbv | 97 | 70-130 | 6 | 25 |
| 1,1,1,2-Tetrachloroethane | 10.00 | 9.652 | ppbv | 97 | 70-130 | 3 | 25 |
| 4-Ethyltoluene | 10.00 | 11.72 | ppbv | 117 | 70-130 | 5 | 25 |
| 1,3,5-Trimethylbenzene | 10.00 | 10.73 | ppbv | 107 | 70-130 | 5 | 25 |
| 1,2,4-Trimethylbenzene | 10.00 | 11.18 | ppbv | 112 | 70-130 | 6 | 25 |
| 1,3-Dichlorobenzene | 10.00 | 9.777 | ppbv | 98 | 70-130 | 6 | 25 |
| 1,4-Dichlorobenzene | 10.00 | 9.546 | ppbv | 95 | 70-130 | 6 | 25 |
| Benzyl chloride | 10.00 | 10.44 | ppbv | 104 | 70-130 | 8 | 25 |
| 1,2-Dichlorobenzene | 10.00 | 10.11 | ppbv | 101 | 70-130 | 6 | 25 |
| 1,2,4-Trichlorobenzene | 10.00 | 9.434 | ppbv | 94 | 70-130 | 8 | 25 |
| Hexachlorobutadiene | 10.00 | 9.627 | ppbv | 96 | 70-130 | 6 | 25 |
| Naphthalene | 10.00 | 10.51 | ppbv | 105 | 70-130 | 8 | 25 |

| QC1159431 Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene | 105 | 60-140 |

Legend

**RPD:** Relative Percent Difference

**Result (V):** Result in volume units

ENTHALPY ANALYTICAL

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 50953/ **Project#:** 1/ 97.0070S000

**Client:** RouxPAssoc-ates **Location:** AB&IPFoundiy

**Type:** BLANK **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159473 **Batch#:** 743129 **Analysis:** E8APTO 15

**Matrix:** A-i **Analyzed:** 0r 60/ 634P14:32 **Analyst:** ZNZ

| QC1159432 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1 D-fluoioethane | ND | 1.0 | ppbv | ND | 3./ | ug6m7 |
| FieonP13 | ND | 0.30 | ppbv | ND | 0.99 | ug6m7 |
| FieonP114 | ND | 0.30 | ppbv | ND | 1.4 | ug6m7 |
| Chloiomethane | ND | 0.30 | ppbv | ND | 0.41 | ug6m7 |
| V-nylPChloi-de | ND | 0.30 | ppbv | ND | 0.51 | ug6m7 |
| Biomomethane | ND | 0.30 | ppbv | ND | 0./ 2 | ug6m7 |
| Chloioethane | ND | 0.30 | ppbv | ND | 0.57 | ug6m7 |
| Ti-chloiofluoiomethane | ND | 0.30 | ppbv | ND | 1.1 | ug6m7 |
| 1,1 D-chloioethene | ND | 0.30 | ppbv | ND | 0./ 9 | ug6m7 |
| FieonP117 | ND | 0.30 | ppbv | ND | 1.5 | ug6m7 |
| Acetone | ND | 1.0 | ppbv | ND | 3.4 | ug6m7 |
| CaibonPD-sulf-de | ND | 0.30 | ppbv | ND | 0.r 3 | ug6m7 |
| IsopiopanolP(I8A) | ND | 1.0 | ppbv | ND | 3.5 | ug6m7 |
| MethylenePChloi-de | ND | 0.30 | ppbv | ND | 0.r 9 | ug6m7 |
| tians 1,3 D-chloioethene | ND | 0.30 | ppbv | ND | 0./ 9 | ug6m7 |
| MTBE | ND | 0.30 | ppbv | ND | 0./ 3 | ug6m7 |
| n Hexane | ND | 0.30 | ppbv | ND | 0./ 0 | ug6m7 |
| 1,1 D-chloioethane | ND | 0.30 | ppbv | ND | 0.21 | ug6m7 |
| V-nylPAcetate | ND | 1.0 | ppbv | ND | 7.5 | ug6m7 |
| c-s 1,3 D-chloioethene | ND | 0.30 | ppbv | ND | 0./ 9 | ug6m7 |
| 3 Butanone | ND | 1.0 | ppbv | ND | 3.9 | ug6m7 |
| Chloiofoim | ND | 0.30 | ppbv | ND | 0.92 | ug6m7 |
| 1,1,1 Ti-chloioethane | ND | 0.30 | ppbv | ND | 1.1 | ug6m7 |
| CaibonPTetiachloi-de | ND | 0.30 | ppbv | ND | 1.7 | ug6m7 |
| Benzene | ND | 0.30 | ppbv | ND | 0.r 4 | ug6m7 |
| 1,3 D-chloioethane | ND | 0.30 | ppbv | ND | 0.21 | ug6m7 |
| Ti-chloioethene | ND | 0.30 | ppbv | ND | 1.1 | ug6m7 |
| 1,3 D-chloiopiopane | ND | 0.30 | ppbv | ND | 0.93 | ug6m7 |
| Biomod-chloiomethane | ND | 0.30 | ppbv | ND | 1.7 | ug6m7 |
| c-s 1,7 D-chloiopiopene | ND | 0.30 | ppbv | ND | 0.91 | ug6m7 |
| 4 Methyl 3 8entanone | ND | 0.30 | ppbv | ND | 0.23 | ug6m7 |
| Toluene | ND | 0.30 | ppbv | ND | 0./ 5 | ug6m7 |
| tians 1,7 D-chloiopiopene | ND | 0.30 | ppbv | ND | 0.91 | ug6m7 |
| 1,1,3 Ti-chloioethane | ND | 0.30 | ppbv | ND | 1.1 | ug6m7 |
| Tetiachloioethene | ND | 0.30 | ppbv | ND | 1.4 | ug6m7 |
| 3 Hexanone | ND | 0.50 | ppbv | ND | 3.0 | ug6m7 |
| D-biomochloiomethane | ND | 0.30 | ppbv | ND | 1./ | ug6m7 |
| 1,3 D-biomoethane | ND | 0.30 | ppbv | ND | 1.5 | ug6m7 |
| Chloiobenzene | ND | 0.30 | ppbv | ND | 0.93 | ug6m7 |
| Ethylbenzene | ND | 0.30 | ppbv | ND | 0.2/ | ug6m7 |
| m,p Xylenes | ND | 0.40 | ppbv | ND | 1./ | ug6m7 |
| o Xylene | ND | 0.30 | ppbv | ND | 0.2/ | ug6m7 |
| Styiene | ND | 0.30 | ppbv | ND | 0.25 | ug6m7 |
| Biomofoim | ND | 0.30 | ppbv | ND | 3.1 | ug6m7 |
| 1,1,3,3 Tetiachloioethane | ND | 0.30 | ppbv | ND | 1.4 | ug6m7 |
| 1,1,1,3 Tetiachloioethane | ND | 0.30 | ppbv | ND | 1.4 | ug6m7 |
| 4 Ethyltoluene | ND | 0.30 | ppbv | ND | 0.92 | ug6m7 |
| 1,7,5 Ti-methylbenzene | ND | 0.30 | ppbv | ND | 0.92 | ug6m7 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 50953/ **Project#:** 1/ 97.0070S000

**Client:** RouxPAssoc-ates **Location:** AB&IPFoundiy

| QC1159432 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,3,4 Ti-methylbenzene | ND | 0.30 | ppbv | ND | 0.92 | ug6m7 |
| 1,7 D-chloiobenzene | ND | 0.30 | ppbv | ND | 1.3 | ug6m7 |
| 1,4 D-chloiobenzene | ND | 0.30 | ppbv | ND | 1.3 | ug6m7 |
| BenzylPchloi-de | ND | 0.30 | ppbv | ND | 1.0 | ug6m7 |
| 1,3 D-chloiobenzene | ND | 0.30 | ppbv | ND | 1.3 | ug6m7 |
| 1,3,4 Ti-chloiobenzene | ND | 0.30 | ppbv | ND | 1.5 | ug6m7 |
| Hexachloiobutad-ene | ND | 0.30 | ppbv | ND | 3.1 | ug6m7 |
| Naphthalene | ND | 1.0 | ppbv | ND | 5.3 | ug6m7 |
| XyleneP(total) | ND | 0.30 | ppbv | ND | 0.2/ | ug6m7 |

| QC1159432 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Biomofluoiobenzene | 100 | r0 140 | ug6m7 |

Legend

**ND:** NotPDetected

**RL (V):** RepoitngPL-mt

**Result (M):** ResultPnPmassPunts

**Result (V):** ResultPnPvolumePunts

ENTHALPY ANALYTICAL

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509584 **Project#:** 1493.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Type:** BS **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159499 **Batch#:** 328891 **Analysis:** EPA TO-15

**Matrix:** Air **Analyzed:** 06/07/82 13:33 **Analyst:** ZNZ

| QC1159799 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Difluoroethane | 10.00 | 9.972 | ppbv | 100 | 40-130 |
| Freon 18 | 10.00 | 9.481 | ppbv | 94 | 40-130 |
| Freon 112 | 10.00 | 9.958 | ppbv | 100 | 40-130 |
| Chloromethane | 10.00 | 9.388 | ppbv | 93 | 40-130 |
| Vinyl Chloride | 10.00 | 9.585 | ppbv | 95 | 40-130 |
| Bromomethane | 10.00 | 9.768 | ppbv | 99 | 40-130 |
| Chloroethane | 10.00 | 9.209 | ppbv | 92 | 40-130 |
| Trichlorofluoromethane | 10.00 | 9.956 | ppbv | 100 | 40-130 |
| 1,1-Dichloroethene | 10.00 | 9.402 | ppbv | 94 | 40-130 |
| Freon 113 | 10.00 | 10.88 | ppbv | 108 | 40-130 |
| Acetone | 10.00 | 9.015 | ppbv | 90 | 40-130 |
| Carbon Disulfide | 10.00 | 10.02 | ppbv | 100 | 40-130 |
| Isopropanol (IPA) | 10.00 | 9.396 | ppbv | 92 | 40-130 |
| Methylene Chloride | 10.00 | 9.755 | ppbv | 99 | 40-130 |
| trans-1,8-Dichloroethene | 10.00 | 9.447 | ppbv | 97 | 40-130 |
| MTBE | 10.00 | 10.15 | ppbv | 101 | 40-130 |
| n-Hexane | 10.00 | 9.474 | ppbv | 97 | 40-130 |
| 1,1-Dichloroethane | 10.00 | 10.05 | ppbv | 100 | 40-130 |
| Vinyl Acetate | 10.00 | 7.998 | ppbv | 90 | 40-130 |
| cis-1,8-Dichloroethene | 10.00 | 9.478 | ppbv | 97 | 40-130 |
| 8-Butanone | 10.00 | 10.27 | ppbv | 105 | 40-130 |
| Chloroform | 10.00 | 10.00 | ppbv | 100 | 40-130 |
| 1,1,1-Trichloroethane | 10.00 | 10.80 | ppbv | 108 | 40-130 |
| Carbon Tetrachloride | 10.00 | 9.900 | ppbv | 99 | 40-130 |
| Benzene | 10.00 | 9.769 | ppbv | 99 | 40-130 |
| 1,8-Dichloroethane | 10.00 | 9.421 | ppbv | 94 | 40-130 |
| Trichloroethene | 10.00 | 10.34 | ppbv | 102 | 40-130 |
| 1,8-Dichloropropane | 10.00 | 9.335 | ppbv | 93 | 40-130 |
| Bromodichloromethane | 10.00 | 10.89 | ppbv | 103 | 40-130 |
| cis-1,3-Dichloropropene | 10.00 | 10.87 | ppbv | 103 | 40-130 |
| 2-Methyl-8-Pentanone | 10.00 | 10.29 | ppbv | 105 | 40-130 |
| Toluene | 10.00 | 10.55 | ppbv | 106 | 40-130 |
| trans-1,3-Dichloropropene | 10.00 | 10.55 | ppbv | 105 | 40-130 |
| 1,1,8-Trichloroethane | 10.00 | 10.39 | ppbv | 102 | 40-130 |
| Tetrachloroethene | 10.00 | 11.19 | ppbv | 118 | 40-130 |
| 8-Hexanone | 10.00 | 10.97 | ppbv | 110 | 40-130 |
| Dibromochloromethane | 10.00 | 10.65 | ppbv | 106 | 40-130 |
| 1,8-Dibromoethane | 10.00 | 10.46 | ppbv | 107 | 40-130 |
| Chlorobenzene | 10.00 | 10.20 | ppbv | 102 | 40-130 |
| Ethylbenzene | 10.00 | 11.85 | ppbv | 118 | 40-130 |
| m,p-Xylenes | 80.00 | 83.88 | ppbv | 116 | 40-130 |
| o-Xylene | 10.00 | 11.71 | ppbv | 117 | 40-130 |
| Styrene | 10.00 | 11.56 | ppbv | 116 | 40-130 |
| Bromoform | 10.00 | 10.76 | ppbv | 109 | 40-130 |
| 1,1,8,8-Tetrachloroethane | 10.00 | 10.42 | ppbv | 104 | 40-130 |
| 1,1,1,8-Tetrachloroethane | 10.00 | 10.85 | ppbv | 108 | 40-130 |
| 2-Ethyltoluene | 10.00 | 13.00 | ppbv | 130 | 40-130 |
| 1,3,5-Trimethylbenzene | 10.00 | 11.95 | ppbv | 180 | 40-130 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509584 **Project#:** 1493.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| QC1159799 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1,8,2-Trimethylbenzene | 10.00 | 18.40 | ppbv | 184 | 40-130 |
| 1,3-Dichlorobenzene | 10.00 | 11.04 | ppbv | 111 | 40-130 |
| 1,2-Dichlorobenzene | 10.00 | 10.78 | ppbv | 107 | 40-130 |
| Benzyl chloride | 10.00 | 11.74 | ppbv | 119 | 40-130 |
| 1,8-Dichlorobenzene | 10.00 | 11.24 | ppbv | 115 | 40-130 |
| 1,8,2-Trichlorobenzene | 10.00 | 10.76 | ppbv | 109 | 40-130 |
| Hexachlorobutadiene | 10.00 | 10.94 | ppbv | 110 | 40-130 |
| Naphthalene | 10.00 | 18.80 | ppbv | 188 | 40-130 |

| QC1159799 Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene | 107 | 60-120 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159700 **Batch#:** 328891 **Analysis:** EPA TO-15

**Matrix:** Air **Analyzed:** 06/07/82 12:14 **Analyst:** ZNZ

| QC1159800 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | 10.00 | 10.01 | ppbv | 100 | 40-130 | 0 | 85 |
| Freon 18 | 10.00 | 9.646 | ppbv | 94 | 40-130 | 0 | 85 |
| Freon 112 | 10.00 | 10.04 | ppbv | 101 | 40-130 | 1 | 85 |
| Chloromethane | 10.00 | 9.200 | ppbv | 92 | 40-130 | 1 | 85 |
| Vinyl Chloride | 10.00 | 9.564 | ppbv | 96 | 40-130 | 0 | 85 |
| Bromomethane | 10.00 | 9.906 | ppbv | 99 | 40-130 | 0 | 85 |
| Chloroethane | 10.00 | 9.317 | ppbv | 93 | 40-130 | 1 | 85 |
| Trichlorofluoromethane | 10.00 | 9.970 | ppbv | 100 | 40-130 | 0 | 85 |
| 1,1-Dichloroethene | 10.00 | 9.705 | ppbv | 97 | 40-130 | 1 | 85 |
| Freon 113 | 10.00 | 10.17 | ppbv | 108 | 40-130 | 0 | 85 |
| Acetone | 10.00 | 9.194 | ppbv | 98 | 40-130 | 8 | 85 |
| Carbon Disulfide | 10.00 | 10.09 | ppbv | 101 | 40-130 | 1 | 85 |
| Isopropanol (IPA) | 10.00 | 9.598 | ppbv | 96 | 40-130 | 8 | 85 |
| Methylene Chloride | 10.00 | 9.486 | ppbv | 94 | 40-130 | 1 | 85 |
| trans-1,8-Dichloroethene | 10.00 | 9.631 | ppbv | 96 | 40-130 | 8 | 85 |
| MTBE | 10.00 | 9.743 | ppbv | 99 | 40-130 | 3 | 85 |
| n-Hexane | 10.00 | 9.405 | ppbv | 94 | 40-130 | 1 | 85 |
| 1,1-Dichloroethane | 10.00 | 9.600 | ppbv | 96 | 40-130 | 5 | 85 |
| Vinyl Acetate | 10.00 | 7.278 | ppbv | 75 | 40-130 | 6 | 85 |
| cis-1,8-Dichloroethene | 10.00 | 9.646 | ppbv | 94 | 40-130 | 1 | 85 |
| 8-Butanone | 10.00 | 10.82 | ppbv | 108 | 40-130 | 8 | 85 |
| Chloroform | 10.00 | 9.950 | ppbv | 99 | 40-130 | 1 | 85 |
| 1,1,1-Trichloroethane | 10.00 | 10.16 | ppbv | 108 | 40-130 | 0 | 85 |
| Carbon Tetrachloride | 10.00 | 9.943 | ppbv | 100 | 40-130 | 1 | 85 |
| Benzene | 10.00 | 9.741 | ppbv | 99 | 40-130 | 0 | 85 |
| 1,8-Dichloroethane | 10.00 | 9.664 | ppbv | 94 | 40-130 | 1 | 85 |
| Trichloroethene | 10.00 | 10.37 | ppbv | 102 | 40-130 | 0 | 85 |
| 1,8-Dichloropropane | 10.00 | 9.818 | ppbv | 98 | 40-130 | 1 | 85 |
| Bromodichloromethane | 10.00 | 10.88 | ppbv | 108 | 40-130 | 1 | 85 |
| cis-1,3-Dichloropropene | 10.00 | 10.16 | ppbv | 108 | 40-130 | 1 | 85 |
| 2-Methyl-8-Pentanone | 10.00 | 10.69 | ppbv | 104 | 40-130 | 8 | 85 |
| Toluene | 10.00 | 10.61 | ppbv | 106 | 40-130 | 1 | 85 |
| trans-1,3-Dichloropropene | 10.00 | 10.53 | ppbv | 105 | 40-130 | 0 | 85 |
| 1,1,8-Trichloroethane | 10.00 | 10.37 | ppbv | 102 | 40-130 | 0 | 85 |
| Tetrachloroethene | 10.00 | 11.34 | ppbv | 112 | 40-130 | 8 | 85 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509584 **Project#:** 1493.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| QC1159800 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 8-Hexanone | 10.00 | 11.03 | ppbv | 110 | 40-130 | 0 | 85 |
| Dibromochloromethane | 10.00 | 10.62 | ppbv | 106 | 40-130 | 0 | 85 |
| 1,8-Dibromoethane | 10.00 | 10.43 | ppbv | 104 | 40-130 | 0 | 85 |
| Chlorobenzene | 10.00 | 10.28 | ppbv | 102 | 40-130 | 0 | 85 |
| Ethylbenzene | 10.00 | 11.19 | ppbv | 118 | 40-130 | 1 | 85 |
| m,p-Xylenes | 80.00 | 88.96 | ppbv | 115 | 40-130 | 1 | 85 |
| o-Xylene | 10.00 | 11.63 | ppbv | 116 | 40-130 | 8 | 85 |
| Styrene | 10.00 | 11.49 | ppbv | 117 | 40-130 | 8 | 85 |
| Bromoform | 10.00 | 10.76 | ppbv | 109 | 40-130 | 0 | 85 |
| 1,1,8,8-Tetrachloroethane | 10.00 | 10.51 | ppbv | 105 | 40-130 | 8 | 85 |
| 1,1,1,8-Tetrachloroethane | 10.00 | 10.20 | ppbv | 102 | 40-130 | 1 | 85 |
| 2-Ethyltoluene | 10.00 | 18.40 | ppbv | 184 | 40-130 | 8 | 85 |
| 1,3,5-Trimethylbenzene | 10.00 | 11.59 | ppbv | 116 | 40-130 | 3 | 85 |
| 1,8,2-Trimethylbenzene | 10.00 | 18.84 | ppbv | 183 | 40-130 | 3 | 85 |
| 1,3-Dichlorobenzene | 10.00 | 10.58 | ppbv | 105 | 40-130 | 5 | 85 |
| 1,2-Dichlorobenzene | 10.00 | 10.17 | ppbv | 108 | 40-130 | 6 | 85 |
| Benzyl chloride | 10.00 | 11.17 | ppbv | 118 | 40-130 | 6 | 85 |
| 1,8-Dichlorobenzene | 10.00 | 11.00 | ppbv | 110 | 40-130 | 2 | 85 |
| 1,8,2-Trichlorobenzene | 10.00 | 10.81 | ppbv | 108 | 40-130 | 6 | 85 |
| Hexachlorobutadiene | 10.00 | 10.21 | ppbv | 102 | 40-130 | 5 | 85 |
| Naphthalene | 10.00 | 11.21 | ppbv | 112 | 40-130 | 4 | 85 |

| QC1159800 Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene | 102 | 60-120 |

Legend

**RPD:** Relative Percent Difference

**Result (V):** Result in volume units

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 50952/ **Project#:** 1/ 97.0070S000

**Client:** RouxPAssoc-ates **Location:** AB&IPFoundiy

**Type:** BLANK **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1159401 **Batch#:** 732291 **Analysis:** E8APTO 15

**Matrix:** A-i **Analyzed:** 0r 6046 23P1 / :07 **Analyst:** ZNZ

| QC1159801 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,1 D-fluoioethane | ND | 1.0 | ppbv | ND | 2./ | ug6m7 |
| FieonP12 | ND | 0.20 | ppbv | ND | 0.99 | ug6m7 |
| FieonP13 | ND | 0.20 | ppbv | ND | 1.3 | ug6m7 |
| Chloiomethane | ND | 0.20 | ppbv | ND | 0.31 | ug6m7 |
| V-nylPChloi-de | ND | 0.20 | ppbv | ND | 0.51 | ug6m7 |
| Biomomethane | ND | 0.20 | ppbv | ND | 0./ 4 | ug6m7 |
| Chloioethane | ND | 0.20 | ppbv | ND | 0.57 | ug6m7 |
| Ti-chloiofluoiomethane | ND | 0.20 | ppbv | ND | 1.1 | ug6m7 |
| 1,1 D-chloioethene | ND | 0.20 | ppbv | ND | 0./ 9 | ug6m7 |
| FieonP117 | ND | 0.20 | ppbv | ND | 1.5 | ug6m7 |
| Acetone | ND | 1.0 | ppbv | ND | 2.3 | ug6m7 |
| CaibonPD-sulf-de | ND | 0.20 | ppbv | ND | 0.r 2 | ug6m7 |
| IsopiopanolP(I8A) | ND | 1.0 | ppbv | ND | 2.5 | ug6m7 |
| MethylenePChloi-de | ND | 0.20 | ppbv | ND | 0.r 9 | ug6m7 |
| tians 1,2 D-chloioethene | ND | 0.20 | ppbv | ND | 0./ 9 | ug6m7 |
| MTBE | ND | 0.20 | ppbv | ND | 0./ 2 | ug6m7 |
| n Hexane | ND | 0.20 | ppbv | ND | 0./ 0 | ug6m7 |
| 1,1 D-chloioethane | ND | 0.20 | ppbv | ND | 0.41 | ug6m7 |
| V-nylPAcetate | ND | 1.0 | ppbv | ND | 7.5 | ug6m7 |
| c-s 1,2 D-chloioethene | ND | 0.20 | ppbv | ND | 0./ 9 | ug6m7 |
| 2 Butanone | ND | 1.0 | ppbv | ND | 2.9 | ug6m7 |
| Chloiofoim | ND | 0.20 | ppbv | ND | 0.94 | ug6m7 |
| 1,1,1 Ti-chloioethane | ND | 0.20 | ppbv | ND | 1.1 | ug6m7 |
| CaibonPTetiachloi-de | ND | 0.20 | ppbv | ND | 1.7 | ug6m7 |
| Benzene | ND | 0.20 | ppbv | ND | 0.r 3 | ug6m7 |
| 1,2 D-chloioethane | ND | 0.20 | ppbv | ND | 0.41 | ug6m7 |
| Ti-chloioethene | ND | 0.20 | ppbv | ND | 1.1 | ug6m7 |
| 1,2 D-chloiopiopane | ND | 0.20 | ppbv | ND | 0.92 | ug6m7 |
| Biomod-chloiomethane | ND | 0.20 | ppbv | ND | 1.7 | ug6m7 |
| c-s 1,7 D-chloiopiopene | ND | 0.20 | ppbv | ND | 0.91 | ug6m7 |
| 3 Methyl 2 8entanone | ND | 0.20 | ppbv | ND | 0.42 | ug6m7 |
| Toluene | ND | 0.20 | ppbv | ND | 0./ 5 | ug6m7 |
| tians 1,7 D-chloiopiopene | ND | 0.20 | ppbv | ND | 0.91 | ug6m7 |
| 1,1,2 Ti-chloioethane | ND | 0.20 | ppbv | ND | 1.1 | ug6m7 |
| Tetiachloioethene | ND | 0.20 | ppbv | ND | 1.3 | ug6m7 |
| 2 Hexanone | ND | 0.50 | ppbv | ND | 2.0 | ug6m7 |
| D-biomochloiomethane | ND | 0.20 | ppbv | ND | 1./ | ug6m7 |
| 1,2 D-biomoethane | ND | 0.20 | ppbv | ND | 1.5 | ug6m7 |
| Chloiobenzene | ND | 0.20 | ppbv | ND | 0.92 | ug6m7 |
| Ethylbenzene | ND | 0.20 | ppbv | ND | 0.4/ | ug6m7 |
| m,p Xylenes | ND | 0.30 | ppbv | ND | 1./ | ug6m7 |
| o Xylene | ND | 0.20 | ppbv | ND | 0.4/ | ug6m7 |
| Styiene | ND | 0.20 | ppbv | ND | 0.45 | ug6m7 |
| Biomofoim | ND | 0.20 | ppbv | ND | 2.1 | ug6m7 |
| 1,1,2,2 Tetiachloioethane | ND | 0.20 | ppbv | ND | 1.3 | ug6m7 |
| 1,1,1,2 Tetiachloioethane | ND | 0.20 | ppbv | ND | 1.3 | ug6m7 |
| 3 Ethyltoluene | ND | 0.20 | ppbv | ND | 0.94 | ug6m7 |
| 1,7,5 Ti-methylbenzene | ND | 0.20 | ppbv | ND | 0.94 | ug6m7 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 50952/ **Project#:** 1/ 97.0070S000

**Client:** RouxPAssoc-ates **Location:** AB&IPFoundiy

| QC1159801 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1,2,3 Ti-methylbenzene | ND | 0.20 | ppbv | ND | 0.94 | ug6m7 |
| 1,7 D-chloiobenzene | ND | 0.20 | ppbv | ND | 1.2 | ug6m7 |
| 1,3 D-chloiobenzene | ND | 0.20 | ppbv | ND | 1.2 | ug6m7 |
| BenzylPChloi-de | ND | 0.20 | ppbv | ND | 1.0 | ug6m7 |
| 1,2 D-chloiobenzene | ND | 0.20 | ppbv | ND | 1.2 | ug6m7 |
| 1,2,3 Ti-chloiobenzene | ND | 0.20 | ppbv | ND | 1.5 | ug6m7 |
| Hexachloiobutad-ene | ND | 0.20 | ppbv | ND | 2.1 | ug6m7 |
| Naphthalene | ND | 1.0 | ppbv | ND | 5.2 | ug6m7 |
| XyleneP(total) | ND | 0.20 | ppbv | ND | 0.4/ | ug6m7 |

| QC1159801 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Biomofluoiobenzene | 94 | r0 130 | ug6m7 |

Legend

**ND:** NotPDetected

**RL (V):** RepoitngPL-mt

**Result (M):** ResultPnPmassPunts

**Result (V):** ResultPnPvolumePunts

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 20h29b **Project#:** 1bh4.0040S000

**Client:** Rf , xAPssf c-eul s **Location:** PB&IAvf , t diy

**Type:** BS **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1150099 **Batch#:** 439432 **Analysis:** E8PATO 12

**Matrix:** P-i **Analyzed:** 05r10r93A1063S **Analyst:** / 7 /

| QC1160022 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1:1 D-ZNf if l uoet l | 10.00 | h.320 | aanp | h2 | b0 140 |
| vil f t A19 | 10.00 | F.b11 | aanp | Fb | b0 140 |
| vil f t A113 | 10.00 | h.31F | aanp | h3 | b0 140 |
| CoNif ml uoet l | 10.00 | F.bh5 | aanp | FF | b0 140 |
| V-t yMCoNi-dl | 10.00 | h.011 | aanp | h0 | b0 140 |
| Bif mf ml uoet l | 10.00 | h.449 | aanp | h4 | b0 140 |
| CoNif l uoet l | 10.00 | F.h41 | aanp | Fh | b0 140 |
| Ti-coNif ZNf if ml uoet l | 10.00 | h.3b1 | aanp | h2 | b0 140 |
| 1:1 D-coNif l uol t l | 10.00 | h.9bF | aanp | h4 | b0 140 |
| vil f t A114 | 10.00 | h.F34 | aanp | hF | b0 140 |
| Pcl uf t l | 10.00 | h.0h3 | aanp | h1 | b0 140 |
| Ceinf t AD-s, NZdl | 10.00 | h.FF5 | aanp | hh | b0 140 |
| Isf aif aet f MAl8P) | 10.00 | h.293 | aanp | h2 | b0 140 |
| Ml uoyNt l ACoNi-dl | 10.00 | h.213 | aanp | h2 | b0 140 |
| uiet s 1:9 D-coNif l uol t l | 10.00 | h.511 | aanp | h5 | b0 140 |
| MTBE | 10.00 | 10.04 | aanp | 100 | b0 140 |
| t Hl xet l | 10.00 | h.532 | aanp | h5 | b0 140 |
| 1:1 D-coNif l uoet l | 10.00 | h.54h | aanp | h5 | b0 140 |
| V-t yMPcl ueul | 10.00 | F.4Fh | aanp | F3 | b0 140 |
| c-s 1:9 D-coNif l uol t l | 10.00 | h.232 | aanp | h2 | b0 140 |
| 9 B, uet f t l | 10.00 | 10.35 | aanp | 102 | b0 140 |
| CoNif Zl im | 10.00 | h.b0b | aanp | hb | b0 140 |
| 1:1:1 Ti-coNif l uoet l | 10.00 | h.h53 | aanp | 100 | b0 140 |
| Ceinf t ATl uiecoNi-dl | 10.00 | h.F09 | aanp | hF | b0 140 |
| Bl t zl t l | 10.00 | h.h0b | aanp | hh | b0 140 |
| 1:9 D-coNif l uoet l | 10.00 | h.40F | aanp | h4 | b0 140 |
| Ti-coNif l uol t l | 10.00 | 10.44 | aanp | 104 | b0 140 |
| 1:9 D-coNif aif aet l | 10.00 | h.1h5 | aanp | h9 | b0 140 |
| Bif mf d-coNif ml uoet l | 10.00 | h.b2h | aanp | hF | b0 140 |
| c-s 1:4 D-coNif aif al t l | 10.00 | 10.12 | aanp | 109 | b0 140 |
| 3 Ml uoyN9 8l t uet f t l | 10.00 | 10.F2 | aanp | 10F | b0 140 |
| Tf NI t l | 10.00 | 10.30 | aanp | 103 | b0 140 |
| uiet s 1:4 D-coNif aif al t l | 10.00 | 10.2h | aanp | 105 | b0 140 |
| 1:1:9 Ti-coNif l uoet l | 10.00 | 10.12 | aanp | 109 | b0 140 |
| Tl uiecoNif l uol t l | 10.00 | 11.1b | aanp | 119 | b0 140 |
| 9 Hl xet f t l | 10.00 | 11.12 | aanp | 119 | b0 140 |
| D-nif mf coNif ml uoet l | 10.00 | 10.39 | aanp | 103 | b0 140 |
| 1:9 D-nif mf l uoet l | 10.00 | 10.59 | aanp | 105 | b0 140 |
| CoNif nl t zl t l | 10.00 | 10.25 | aanp | 105 | b0 140 |
| Euoy Nl t zl t l | 10.00 | 11.20 | aanp | 112 | b0 140 |
| m:a XyNt l s | 90.00 | 94.22 | aanp | 11F | b0 140 |
| f XyNt l | 10.00 | 19.11 | aanp | 191 | b0 140 |
| Suyi l t l | 10.00 | 19.02 | aanp | 190 | b0 140 |
| Bif mf Zl im | 10.00 | 11.9b | aanp | 114 | b0 140 |
| 1:1:9:9 Tl uiecoNif l uoet l | 10.00 | 10.hb | aanp | 110 | b0 140 |
| 1:1:1:9 Tl uiecoNif l uoet l | 10.00 | 10.35 | aanp | 102 | b0 140 |
| 3 Euoy Nf NI t l | 10.00 | 14.09 | aanp | 140 | b0 140 |
| 1:4:2 Ti-ml uoyNl t zl t l | 10.00 | 19.10 | aanp | 191 | b0 140 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 20h29b **Project#:** 1bh4.0040S000

**Client:** Rf , xAPssf c-eul s **Location:** PB&IAvf , t diy

| QC1160022 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1:9:3 Ti-ml uoyNl t zl t l | 10.00 | 19.b4 | aanp | 19b | b0 140 |
| 1:4 D-coNif nl t zl t l | 10.00 | 11.9h | aanp | 114 | b0 140 |
| 1:3 D-coNif nl t zl t l | 10.00 | 10.hb | aanp | 110 | b0 140 |
| Bl t zyMcoNi-dl | 10.00 | 19.31 | aanp | 193 | b0 140 |
| 1:9 D-coNif nl t zl t l | 10.00 | 11.b4 | aanp | 11b | b0 140 |
| 1:9:3 Ti-coNif nl t zl t l | 10.00 | 11.94 | aanp | 119 | b0 140 |
| Hl xecoNif n, ued-l t l | 10.00 | 11.45 | aanp | 113 | b0 140 |
| 7eaouoeNt l | 10.00 | 19.44 | aanp | 194 | b0 140 |

| QC1160022 Surrogate | %REC | Limits |
|---|---|---|
| Bif mf ZNf if nl t zl t l | 114 | 50 130 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1150094 **Batch#:** 439432 **Analysis:** E8PATO 12

**Matrix:** P-i **Analyzed:** 05r10r93A1640 **Analyst:** / 7 /

| QC1160023 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 1:1 D-ZNf if l uoet l | 10.00 | h.321 | aanp | h2 | b0 140 | 0 | 92 |
| vil f t A19 | 10.00 | F.h14 | aanp | Fh | b0 140 | 9 | 92 |
| vil f t A113 | 10.00 | h.5b3 | aanp | hb | b0 140 | 4 | 92 |
| CoNif ml uoet l | 10.00 | F.F3h | aanp | FF | b0 140 | 1 | 92 |
| V-t yMCoNi-dl | 10.00 | h.0F2 | aanp | h1 | b0 140 | 1 | 92 |
| Bif mf ml uoet l | 10.00 | h.32F | aanp | h2 | b0 140 | 1 | 92 |
| CoNif l uoet l | 10.00 | h.002 | aanp | h0 | b0 140 | 1 | 92 |
| Ti-coNif ZNf if ml uoet l | 10.00 | h.252 | aanp | h5 | b0 140 | 1 | 92 |
| 1:1 D-coNif l uol t l | 10.00 | h.394 | aanp | h3 | b0 140 | 9 | 92 |
| vil f t A114 | 10.00 | 10.01 | aanp | 100 | b0 140 | 9 | 92 |
| Pcl uf t l | 10.00 | h.11h | aanp | h1 | b0 140 | 0 | 92 |
| Ceinf t AD-s, NZdl | 10.00 | h.hhb | aanp | 100 | b0 140 | 1 | 92 |
| Isf aif aet f M(l8P) | 10.00 | h.5bb | aanp | hb | b0 140 | 9 | 92 |
| Ml uoyNt l ACoNi-dl | 10.00 | h.2F0 | aanp | h5 | b0 140 | 1 | 92 |
| uiet s 1:9 D-coNif l uol t l | 10.00 | h.253 | aanp | h5 | b0 140 | 0 | 92 |
| MTBE | 10.00 | 10.01 | aanp | 100 | b0 140 | 0 | 92 |
| t Hl xet l | 10.00 | h.5b2 | aanp | hb | b0 140 | 0 | 92 |
| 1:1 D-coNif l uoet l | 10.00 | h.230 | aanp | h2 | b0 140 | 1 | 92 |
| V-t yMPcl ueul | 10.00 | F.49F | aanp | F4 | b0 140 | 1 | 92 |
| c-s 1:9 D-coNif l uol t l | 10.00 | h.F44 | aanp | hF | b0 140 | 4 | 92 |
| 9 B, uet f t l | 10.00 | 10.3h | aanp | 102 | b0 140 | 0 | 92 |
| CoNif Zl im | 10.00 | h.h25 | aanp | 100 | b0 140 | 4 | 92 |
| 1:1:1 Ti-coNif l uoet l | 10.00 | 10.1F | aanp | 109 | b0 140 | 9 | 92 |
| Ceinf t ATl uiecoNi-dl | 10.00 | 10.04 | aanp | 100 | b0 140 | 9 | 92 |
| Bl t zl t l | 10.00 | 10.13 | aanp | 101 | b0 140 | 9 | 92 |
| 1:9 D-coNif l uoet l | 10.00 | h.2F5 | aanp | h5 | b0 140 | 4 | 92 |
| Ti-coNif l uol t l | 10.00 | 10.95 | aanp | 104 | b0 140 | 1 | 92 |
| 1:9 D-coNif aif aet l | 10.00 | F.hh4 | aanp | h0 | b0 140 | 9 | 92 |
| Bif mf d-coNif ml uoet l | 10.00 | h.F95 | aanp | hF | b0 140 | 1 | 92 |
| c-s 1:4 D-coNif aif al t l | 10.00 | 10.93 | aanp | 109 | b0 140 | 1 | 92 |
| 3 Ml uoyN9 8l t uet f t l | 10.00 | 10.5h | aanp | 10b | b0 140 | 1 | 92 |
| Tf NI t l | 10.00 | 10.35 | aanp | 102 | b0 140 | 1 | 92 |
| uiet s 1:4 D-coNif aif al t l | 10.00 | 10.51 | aanp | 105 | b0 140 | 0 | 92 |
| 1:1:9 Ti-coNif l uoet l | 10.00 | 10.92 | aanp | 104 | b0 140 | 1 | 92 |
| Tl uiecoNif l uol t l | 10.00 | 11.11 | aanp | 111 | b0 140 | 1 | 92 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 20h29b **Project#:** 1bh4.0040S000

**Client:** Rf , xÆPssf c-eul s **Location:** PB&lÆvf , t diy

| QC1160023 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 9 Hl xet f t l | 10.00 | 11.11 | aanp | 111 | b0 140 | 0 | 92 |
| D-nif mf coNlif ml uoet l | 10.00 | 10.44 | aanp | 104 | b0 140 | 1 | 92 |
| 1:9 D-nif mf l uoet l | 10.00 | 10.2h | aanp | 105 | b0 140 | 0 | 92 |
| CoNlif nl t zl t l | 10.00 | 10.b0 | aanp | 10b | b0 140 | 1 | 92 |
| EuoyNl t zl t l | 10.00 | 11.29 | aanp | 112 | b0 140 | 0 | 92 |
| m:a XyNtl s | 90.00 | 94.50 | aanp | 11F | b0 140 | 0 | 92 |
| f XyNtl | 10.00 | 19.01 | aanp | 190 | b0 140 | 1 | 92 |
| Suyil t l | 10.00 | 19.39 | aanp | 193 | b0 140 | 4 | 92 |
| Bif mf Zim | 10.00 | 11.94 | aanp | 119 | b0 140 | 0 | 92 |
| 1:1:9:9 Tl uiecoNlif l uoet l | 10.00 | 10.b0 | aanp | 10b | b0 140 | 9 | 92 |
| 1:1:1:9 Tl uiecoNlif l uoet l | 10.00 | 10.3F | aanp | 102 | b0 140 | 0 | 92 |
| 3 EuoyNf N,l t l | 10.00 | 19.F5 | aanp | 19h | b0 140 | 1 | 92 |
| 1:4:2 Ti-ml uoyNl t zl t l | 10.00 | 11.hb | aanp | 190 | b0 140 | 1 | 92 |
| 1:9:3 Ti-ml uoyNl t zl t l | 10.00 | 19.35 | aanp | 192 | b0 140 | 9 | 92 |
| 1:4 D-coNlif nl t zl t l | 10.00 | 11.03 | aanp | 110 | b0 140 | 9 | 92 |
| 1:3 D-coNlif nl t zl t l | 10.00 | 10.bb | aanp | 10F | b0 140 | 9 | 92 |
| Bl t zyMcoNli-dl | 10.00 | 19.05 | aanp | 191 | b0 140 | 4 | 92 |
| 1:9 D-coNlif nl t zl t l | 10.00 | 11.30 | aanp | 113 | b0 140 | 4 | 92 |
| 1:9:3 Ti-coNlif nl t zl t l | 10.00 | 10.b4 | aanp | 10b | b0 140 | 2 | 92 |
| Hl xecoNlif n, ued-l t l | 10.00 | 11.1F | aanp | 119 | b0 140 | 9 | 92 |
| 7 eaouoeNtl | 10.00 | 19.00 | aanp | 190 | b0 140 | 4 | 92 |

| QC1160023 Surrogate | %REC | Limits |
|---|---|---|
| Bif mf ZNf if nl t zl t l | 10F | 50 130 |

Ll gl t d

**RPD:** Rl Neupl ASl icl t u
D-Zil t cl

**Result (V):** Rl s, NA Apf N,ml A,t -us

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 30F39b **Project#:** 1bF7.0070S000

**Client:** Rl f x8Assl c t ous **Location:** AB&l8rl f hd-y

**Type:** BLANK **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1150094 **Batch#:** 749743 **Analysis:** E2A8TOPl3

**Matrix:** A - **Analyzed:** 05i10i948l7r16 **Analyst:** / N/

| QC1160024 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1:1PD Zf l -l uœet hu | ND | 1.0 | aanp | ND | 9.b | f vig 7 |
| m-ul h8l9 | ND | 0.90 | aanp | ND | 0.FF | f vig 7 |
| m-ul h8l14 | ND | 0.90 | aanp | ND | 1.4 | f vig 7 |
| Ce,l -l g uœet hu | ND | 0.90 | aanp | ND | 0.41 | f vig 7 |
| V hy,8Ce,l - du | ND | 0.90 | aanp | ND | 0.31 | f vig 7 |
| B-l g l g uœet hu | ND | 0.90 | aanp | ND | 0.b6 | f vig 7 |
| Ce,l -l uœet hu | ND | 0.90 | aanp | ND | 0.37 | f vig 7 |
| T- ce,l -l Zf l -l g uœet hu | ND | 0.90 | aanp | ND | 1.1 | f vig 7 |
| 1:1PD ce,l -l uœuhu | ND | 0.90 | aanp | ND | 0.bF | f vig 7 |
| m-ul h8l17 | ND | 0.90 | aanp | ND | 1.3 | f vig 7 |
| Acudl hu | ND | 1.0 | aanp | ND | 9.4 | f vig 7 |
| Ct -nl h8D sf ,Zdu | ND | 0.90 | aanp | ND | 0.59 | f vig 7 |
| Isl a-l at hl ,8(l2A) | ND | 1.0 | aanp | ND | 9.3 | f vig 7 |
| Muœey,uhu8Ce,l - du | ND | 0.90 | aanp | ND | 0.5F | f vig 7 |
| o-t hsPl:9PD ce,l -l uœuhu | ND | 0.90 | aanp | ND | 0.bF | f vig 7 |
| MTBE | ND | 0.90 | aanp | ND | 0.b9 | f vig 7 |
| hPHuxt hu | ND | 0.90 | aanp | ND | 0.b0 | f vig 7 |
| 1:1PD ce,l -l uœet hu | ND | 0.90 | aanp | ND | 0.61 | f vig 7 |
| V hy,8Acudl ou | ND | 1.0 | aanp | ND | 7.3 | f vig 7 |
| c sPl:9PD ce,l -l uœuhu | ND | 0.90 | aanp | ND | 0.bF | f vig 7 |
| 9PBf dl hl hu | ND | 1.0 | aanp | ND | 9.F | f vig 7 |
| Ce,l -l Zl -g | ND | 0.90 | aanp | ND | 0.F6 | f vig 7 |
| 1:1:1PT- ce,l -l uœet hu | ND | 0.90 | aanp | ND | 1.1 | f vig 7 |
| Ct -nl h8Tuo-t ce,l - du | ND | 0.90 | aanp | ND | 1.7 | f vig 7 |
| Buhzuhu | ND | 0.90 | aanp | ND | 0.54 | f vig 7 |
| 1:9PD ce,l -l uœet hu | ND | 0.90 | aanp | ND | 0.61 | f vig 7 |
| T- ce,l -l uœeuhu | ND | 0.90 | aanp | ND | 1.1 | f vig 7 |
| 1:9PD ce,l -l a-l at hu | ND | 0.90 | aanp | ND | 0.F9 | f vig 7 |
| B-l g l d ce,l -l g uœet hu | ND | 0.90 | aanp | ND | 1.7 | f vig 7 |
| c sPl:7PD ce,l -l a-l auhu | ND | 0.90 | aanp | ND | 0.F1 | f vig 7 |
| 4PMuœey,P9P2uhdl hl hu | ND | 0.90 | aanp | ND | 0.69 | f vig 7 |
| Tl ,f uhu | ND | 0.90 | aanp | ND | 0.b3 | f vig 7 |
| o-t hsPl:7PD ce,l -l a-l auhu | ND | 0.90 | aanp | ND | 0.F1 | f vig 7 |
| 1:1:9PT- ce,l -l uœet hu | ND | 0.90 | aanp | ND | 1.1 | f vig 7 |
| Tuo-t ce,l -l uœeuhu | ND | 0.90 | aanp | ND | 1.4 | f vig 7 |
| 9PHuxt hl hu | ND | 0.30 | aanp | ND | 9.0 | f vig 7 |
| D n-l g l ce,l -l g uœet hu | ND | 0.90 | aanp | ND | 1.b | f vig 7 |
| 1:9PD n-l g l uœet hu | ND | 0.90 | aanp | ND | 1.3 | f vig 7 |
| Ce,l -l nuhzuhu | ND | 0.90 | aanp | ND | 0.F9 | f vig 7 |
| Eœey,nuhzuhu | ND | 0.90 | aanp | ND | 0.6b | f vig 7 |
| g :aPXy,uhus | ND | 0.40 | aanp | ND | 1.b | f vig 7 |
| l PXy,uhu | ND | 0.90 | aanp | ND | 0.6b | f vig 7 |
| Soy-uhu | ND | 0.90 | aanp | ND | 0.63 | f vig 7 |
| B-l g l Zl -g | ND | 0.90 | aanp | ND | 9.1 | f vig 7 |
| 1:1:9:9PTuo-t ce,l -l uœet hu | ND | 0.90 | aanp | ND | 1.4 | f vig 7 |
| 1:1:1:9PTuo-t ce,l -l uœet hu | ND | 0.90 | aanp | ND | 1.4 | f vig 7 |
| 4PEœey,dl ,f uhu | ND | 0.90 | aanp | ND | 0.F6 | f vig 7 |
| 1:7:3PT- g uœey,nuhzuhu | ND | 0.90 | aanp | ND | 0.F6 | f vig 7 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 30F39b **Project#:** 1bF7.0070S000

**Client:** Rl f x8Assl c t ous **Location:** AB&l8rl f hd-y

| QC1160024 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1:9:4PT- g uœey,nuhzuhu | ND | 0.90 | aanp | ND | 0.F6 | f vig 7 |
| 1:7PD ce,l -l nuhzuhu | ND | 0.90 | aanp | ND | 1.9 | f vig 7 |
| 1:4PD ce,l -l nuhzuhu | ND | 0.90 | aanp | ND | 1.9 | f vig 7 |
| Buhzy,8ce,l - du | ND | 0.90 | aanp | ND | 1.0 | f vig 7 |
| 1:9PD ce,l -l nuhzuhu | ND | 0.90 | aanp | ND | 1.9 | f vig 7 |
| 1:9:4PT- ce,l -l nuhzuhu | ND | 0.90 | aanp | ND | 1.3 | f vig 7 |
| Huxt ce,l -l nf d d uhu | ND | 0.90 | aanp | ND | 9.1 | f vig 7 |
| Nt aeœt ,uhu | ND | 1.0 | aanp | ND | 3.9 | f vig 7 |
| Xy,uhu8(d d ,) | ND | 0.90 | aanp | ND | 0.6b | f vig 7 |

| QC1160024 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| B-l g l Z,f l -l nuhzuhu | 109 | 50P140 | f vig 7 |

Luvuhd

**ND:** Nl o8Duuucaud

**RL (V):** Rual -ohv8L g o

**Result (M):** Rusf ,8h8g t ss8 h os

**Result (V):** Rusf ,8h8bl ,f g u8 h os

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 40F49b **Project#:** 1bF3.0030S000

**Client:** Rf , xAPssf c-eul s **Location:** PB&IAvf , t diy

**Type:** BS **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1150094 **Batch#:** 329325 **Analysis:** E8PATO 14

**Matrix:** P-i **Analyzed:** 05r10r92A1062 1 **Analyst:** / 7 /

| QC1160025 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | Qual |
|---|---|---|---|---|---|---|
| 1:1 D-ZNf if l uoet l | 10.00 | h.h21 | aanp | hh | b0 130 | A |
| vil f t A19 | 10.00 | h.1h9 | aanp | h9 | b0 130 | A |
| vil f t A112 | 10.00 | b.F12 | aanp | bF | b0 130 | A |
| CoNif ml uoet l | 10.00 | b.FF3 | aanp | h0 | b0 130 | A |
| V-t yMCoNi-dl | 10.00 | h.992 | aanp | h9 | b0 130 | A |
| Bif mf ml uoet l | 10.00 | h.5b2 | aanp | hb | b0 130 | A |
| CoNif l uoet l | 10.00 | h.11h | aanp | h1 | b0 130 | A |
| Ti-coNif ZNf if ml uoet l | 10.00 | h.911 | aanp | h9 | b0 130 | A |
| 1:1 D-coNif l uol t l | 10.00 | h.15h | aanp | h9 | b0 130 | A |
| vil f t A113 | 10.00 | h.352 | aanp | h2 | b0 130 | A |
| Pcl uf t l | 10.00 | h.0h4 | aanp | h1 | b0 130 | A |
| Ceinf t AD-s, NZdl | 10.00 | h.39b | aanp | h3 | b0 130 | A |
| lsf aif aet f M(l8P) | 10.00 | b.h34 | aanp | bh | b0 130 | A |
| Ml uoyNt l ACoNi-dl | 10.00 | h.944 | aanp | h3 | b0 130 | A |
| uiet s 1:9 D-coNif l uol t l | 10.00 | h.22b | aanp | h2 | b0 130 | A |
| MTBE | 10.00 | h.39b | aanp | h3 | b0 130 | A |
| t Hl xet l | 10.00 | h.999 | aanp | h9 | b0 130 | A |
| 1:1 D-coNif l uoet l | 10.00 | h.b43 | aanp | hh | b0 130 | A |
| V-t yMPcl ueul | 10.00 | b.h90 | aanp | bh | b0 130 | A |
| c-s 1:9 D-coNif l uol t l | 10.00 | h.303 | aanp | h3 | b0 130 | A |
| 9 B, uet f t l | 10.00 | h.9F5 | aanp | h3 | b0 130 | A |
| CoNif Zim | 10.00 | h.434 | aanp | h4 | b0 130 | A |
| 1:1:1 Ti-coNif l uoet l | 10.00 | h.209 | aanp | h2 | b0 130 | A |
| Ceinf t ATl uiecoNi-dl | 10.00 | h.9b9 | aanp | h3 | b0 130 | A |
| Bl t zl t l | 10.00 | h.393 | aanp | h3 | b0 130 | A |
| 1:9 D-coNif l uoet l | 10.00 | h.11F | aanp | h1 | b0 130 | A |
| Ti-coNif l uol t l | 10.00 | F.913 | aanp | F9 | b0 130 | A |
| 1:9 D-coNif aif aet l | 10.00 | h.b94 | aanp | hb | b0 130 | A |
| Bif mf d-coNif ml uoet l | 10.00 | h.h22 | aanp | hh | b0 130 | A |
| c-s 1:3 D-coNif aif al t l | 10.00 | h.h44 | aanp | hF | b0 130 | A |
| 2 Ml uoyN9 8l t uet f t l | 10.00 | h.941 | aanp | h3 | b0 130 | A |
| Tf N,l t l | 10.00 | h.b51 | aanp | hh | b0 130 | A |
| uiet s 1:3 D-coNif aif al t l | 10.00 | h.2F3 | aanp | h4 | b0 130 | A |
| 1:1:9 Ti-coNif l uoet l | 10.00 | h.FFh | aanp | F0 | b0 130 | A |
| Tl uiecoNif l uol t l | 10.00 | F.h03 | aanp | Fh | b0 130 | A |
| 9 Hl xet f t l | 10.00 | h.139 | aanp | h1 | b0 130 | A |
| D-nif mf coNif ml uoet l | 10.00 | h.FF2 | aanp | F0 | b0 130 | A |
| 1:9 D-nif mf l uoet l | 10.00 | h.h51 | aanp | hF | b0 130 | A |
| CoNif nl t zl t l | 10.00 | F.09h | aanp | F0 | b0 130 | A |
| Euoy%l t zl t l | 10.00 | F.52b | aanp | F5 | b0 130 | A |
| m:a XyNt l s | 90.00 | 1F.h9 | aanp | FF | b0 130 | A |
| f XyNt l | 10.00 | 10.1b | aanp | 109 | b0 130 | A |
| Suyil t l | 10.00 | h.h04 | aanp | hh | b0 130 | A |
| Bif mf Zim | 10.00 | F.0b5 | aanp | F1 | b0 130 | A |
| 1:1:9:9 Tl uiecoNif l uoet l | 10.00 | F.34b | aanp | F2 | b0 130 | A |
| 1:1:1:9 Tl uiecoNif l uoet l | 10.00 | F.30b | aanp | F3 | b0 130 | A |
| 2 Euoy%f N,l t l | 10.00 | 10.Fb | aanp | 110 | b0 130 | A |
| 1:3:4 Ti-ml uoy%l t zl t l | 10.00 | 11.10 | aanp | 111 | b0 130 | A |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 40F49b **Project#:** 1bF3.0030S000

**Client:** Rf , xAPssf c-eul s **Location:** PB&IAvf , t diy

| QC1160025 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | | Qual |
|---|---|---|---|---|---|---|---|
| 1:9:2 Ti-ml uoyNl t zl t l | 10.00 | 11.9b | aanp | 113 | b0 130 | A | |
| 1:3 D-coNif nl t zl t l | 10.00 | 10.3b | aanp | 102 | b0 130 | A | |
| 1:2 D-coNif nl t zl t l | 10.00 | 10.91 | aanp | 109 | b0 130 | A | |
| Bl t zyMcoNi-dl | 10.00 | F.442 | aanp | F5 | b0 130 | A | |
| 1:9 D-coNif nl t zl t l | 10.00 | 10.4F | aanp | 105 | b0 130 | A | |
| 1:9:2 Ti-coNif nl t zl t l | 10.00 | F.19h | aanp | F1 | b0 130 | A | |
| Hl xecoNif n, ued-l t l | 10.00 | F.9F9 | aanp | F3 | b0 130 | A | |
| 7eaouoeNt l | 10.00 | b.b99 | aanp | bb | b0 130 | | n |

| QC1160025 Surrogate | %REC | Limits |
|---|---|---|
| Bif mf ZNf if nl t zl t l | 111 | 50 120 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1150095 **Batch#:** 329325 **Analysis:** E8PATO 14

**Matrix:** P-i **Analyzed:** 05r10r92A16l5 **Analyst:** / 7/

| QC1160026 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim | Qual |
|---|---|---|---|---|---|---|---|---|
| 1:1 D-ZNf if l uoet l | 10.00 | h.bhb | aanp | hh | b0 130 | 1 | 94 A | |
| vil f t A19 | 10.00 | h.055 | aanp | h1 | b0 130 | 1 | 94 A | |
| vil f t A112 | 10.00 | b.hh2 | aanp | bF | b0 130 | 0 | 94 A | |
| CoNif ml uoet l | 10.00 | b.hb0 | aanp | bF | b0 130 | 9 | 94 A | |
| V-t yMCoNi-dl | 10.00 | h.1hF | aanp | h9 | b0 130 | 0 | 94 A | |
| Bif mf ml uoet l | 10.00 | h.492 | aanp | h4 | b0 130 | 9 | 94 A | |
| CoNif l uoet l | 10.00 | b.F50 | aanp | h0 | b0 130 | 9 | 94 A | |
| Ti-coNif ZNf if ml uoet l | 10.00 | b.Fh2 | aanp | h0 | b0 130 | 3 | 94 A | |
| 1:1 D-coNif l uol t l | 10.00 | b.F4F | aanp | h0 | b0 130 | 3 | 94 A | |
| vil f t A113 | 10.00 | h.954 | aanp | h3 | b0 130 | 1 | 94 A | |
| Pcl uf t l | 10.00 | b.b12 | aanp | bb | b0 130 | 4 | 94 A | |
| Ceinf t AD-s, NZdl | 10.00 | h.940 | aanp | h9 | b0 130 | 1 | 94 A | |
| Isf aif aet f MI8P) | 10.00 | b.h15 | aanp | bh | b0 130 | 0 | 94 A | |
| Ml uoyNt l ACoNi-dl | 10.00 | h.945 | aanp | h3 | b0 130 | 0 | 94 A | |
| uiet s 1:9 D-coNif l uol t l | 10.00 | h.9hb | aanp | h3 | b0 130 | 9 | 94 A | |
| MTBE | 10.00 | h.135 | aanp | h1 | b0 130 | 9 | 94 A | |
| t Hl xet l | 10.00 | h.194 | aanp | h1 | b0 130 | 1 | 94 A | |
| 1:1 D-coNif l uoet l | 10.00 | h.49b | aanp | h4 | b0 130 | 3 | 94 A | |
| V-t yMPcl ueul | 10.00 | b.5FF | aanp | bb | b0 130 | 9 | 94 A | |
| c-s 1:9 D-coNif l uol t l | 10.00 | h.1b9 | aanp | h9 | b0 130 | 9 | 94 A | |
| 9 B, uet f t l | 10.00 | h.10h | aanp | h1 | b0 130 | 9 | 94 A | |
| CoNif Zl im | 10.00 | h.200 | aanp | h2 | b0 130 | 9 | 94 A | |
| 1:1:1 Ti-coNif l uoet l | 10.00 | h.9F9 | aanp | h3 | b0 130 | 1 | 94 A | |
| Ceinf t ATl uiecoNi-dl | 10.00 | h.9hb | aanp | h3 | b0 130 | 0 | 94 A | |
| Bl t zl t l | 10.00 | h.1h2 | aanp | h9 | b0 130 | 9 | 94 A | |
| 1:9 D-coNif l uoet l | 10.00 | b.F94 | aanp | bF | b0 130 | 9 | 94 A | |
| Ti-coNif l uol t l | 10.00 | h.F5F | aanp | F0 | b0 130 | 3 | 94 A | |
| 1:9 D-coNif aif aet l | 10.00 | h.52F | aanp | h5 | b0 130 | 1 | 94 A | |
| Bif mf d-coNif ml uoet l | 10.00 | h.513 | aanp | h5 | b0 130 | 3 | 94 A | |
| c-s 1:3 D-coNif aif al t l | 10.00 | h.5h4 | aanp | hb | b0 130 | 9 | 94 A | |
| 2 Ml uoyN9 8l t uet f t l | 10.00 | h.01h | aanp | h0 | b0 130 | 3 | 94 A | |
| Tf NI t l | 10.00 | h.5F3 | aanp | hb | b0 130 | 1 | 94 A | |
| uiet s 1:3 D-coNif aif al t l | 10.00 | h.490 | aanp | h4 | b0 130 | 0 | 94 A | |
| 1:1:9 Ti-coNif l uoet l | 10.00 | h.h93 | aanp | hh | b0 130 | 9 | 94 A | |
| Tl uiecoNif l uol t l | 10.00 | F.922 | aanp | F9 | b0 130 | 5 | 94 A | |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 40F49b **Project#:** 1bF3.0030S000

**Client:** Rf , xÆPssf c-eul s **Location:** PB&lAvf , t diy

| QC1160026 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim | Qual |
|---|---|---|---|---|---|---|---|---|
| 9 Hl xet f t l | 10.00 | h.03F | aanp | h0 | b0 130 | 1 | 94 A | |
| D-nif mf coNlif ml uoet l | 10.00 | h.h94 | aanp | hh | b0 130 | 9 | 94 A | |
| 1:9 D-nif mf l uoet l | 10.00 | h.b95 | aanp | hb | b0 130 | 9 | 94 A | |
| CoNlif nl t zl t l | 10.00 | h.F0b | aanp | hF | b0 130 | 1 | 94 A | |
| EuoyNl t zl t l | 10.00 | F.211 | aanp | F2 | b0 130 | 9 | 94 A | |
| m:a XyNtl s | 90.00 | 1F.b0 | aanp | FF | b0 130 | 1 | 94 A | |
| f XyNtl | 10.00 | F.F4h | aanp | 100 | b0 130 | 9 | 94 A | |
| Suyil tl | 10.00 | F.035 | aanp | F0 | b0 130 | 3 | 94 A | |
| Bif mf Zl im | 10.00 | F.0bh | aanp | F1 | b0 130 | 0 | 94 A | |
| 1:1:9:9 Tl uiecoNlif l uoet l | 10.00 | F.1Fh | aanp | F9 | b0 130 | 9 | 94 A | |
| 1:1:1:9 Tl uiecoNlif l uoet l | 10.00 | F.0b2 | aanp | F1 | b0 130 | 3 | 94 A | |
| 2 EuoyNf N,l t l | 10.00 | 10.h3 | aanp | 10h | b0 130 | 1 | 94 A | |
| 1:3:4 Ti-ml uoyNl t zl t l | 10.00 | 10.43 | aanp | 104 | b0 130 | 4 | 94 A | |
| 1:9:2 Ti-ml uoyNl t zl t l | 10.00 | 10.hb | aanp | 10F | b0 130 | 2 | 94 A | |
| 1:3 D-coNlif nl t zl t l | 10.00 | F.b33 | aanp | Fb | b0 130 | 5 | 94 A | |
| 1:2 D-coNlif nl t zl t l | 10.00 | F.594 | aanp | F5 | b0 130 | 5 | 94 A | |
| Bl t zyMcoNli-dl | 10.00 | F.1h4 | aanp | F9 | b0 130 | 2 | 94 A | |
| 1:9 D-coNlif nl t zl t l | 10.00 | F.F1F | aanp | FF | b0 130 | b | 94 A | |
| 1:9:2 Ti-coNlif nl t zl t l | 10.00 | h.h31 | aanp | hh | b0 130 | 3 | 94 A | |
| Hl xecoNlif n, ued-l t l | 10.00 | h.41b | aanp | h4 | b0 130 | F | 94 A | |
| 7eaouoeNtl | 10.00 | h.105 | aanp | h1 | b0 130 | 4 | 94 | n |

| QC1160026 Surrogate | %REC | Limits |
|---|---|---|
| Bif mf ZNf if nl t zl t l | 119 | 50 120 |

Ll gl t d

**RPD:** Rl Neupl ASl icl t u
D-Zil t cl

**Result (V):** Rl s, NA Apf N,ml A,t -us

**b:** Sl l Aeiieupl

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 0m 94 **Project#:** 14m7.0070S000

**Client:** Rl f x8Assl c-t ous **Location:** AB&l8gl f hyiV

**Type:** BLANK **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1150094 **Batch#:** 739735 **Analysis:** E2A8TOPl

**Matrix:** A-i **Analyzed:** 05r10r938136 **Analyst:** / N/

| QC1160027 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1:1PD-Zfl il uœet hu | ND | 1.0 | aanp | ND | 9.4 | f brv 7 |
| giul h8l9 | ND | 0.90 | aanp | ND | 0.mm | f brv 7 |
| giul h8l13 | ND | 0.90 | aanp | ND | 1.3 | f brv 7 |
| Ce,l il v uœet hu | ND | 0.90 | aanp | ND | 0.31 | f brv 7 |
| F-hV,8Ce,l i-yu | ND | 0.90 | aanp | ND | 0. 1 | f brv 7 |
| Bil v l v uœet hu | ND | 0.90 | aanp | ND | 0.4d | f brv 7 |
| Ce,l il uœet hu | ND | 0.90 | aanp | ND | 0. 7 | f brv 7 |
| Ti-ce,l il Zfl il v uœet hu | ND | 0.90 | aanp | ND | 1.1 | f brv 7 |
| 1:1PD-ce,l il uœuhu | ND | 0.90 | aanp | ND | 0.4m | f brv 7 |
| giul h8l17 | ND | 0.90 | aanp | ND | 1. | f brv 7 |
| Acudl hu | ND | 1.0 | aanp | ND | 9.3 | f brv 7 |
| Ct inl h8D-sf ,Zyu | ND | 0.90 | aanp | ND | 0.59 | f brv 7 |
| Isl ail at hl ,8(l2A) | ND | 1.0 | aanp | ND | 9. | f brv 7 |
| MuœV,uhu8Ce,l i-yu | ND | 0.90 | aanp | ND | 0.5m | f brv 7 |
| ol t hsPl:9PD-ce,l il uœuhu | ND | 0.90 | aanp | ND | 0.4m | f brv 7 |
| MTBE | ND | 0.90 | aanp | ND | 0.49 | f brv 7 |
| hPHuxt hu | ND | 0.90 | aanp | ND | 0.40 | f brv 7 |
| 1:1PD-ce,l il uœet hu | ND | 0.90 | aanp | ND | 0.d1 | f brv 7 |
| F-hV,8Acudl ou | ND | 1.0 | aanp | ND | 7. | f brv 7 |
| c-sPl:9PD-ce,l il uœuhu | ND | 0.90 | aanp | ND | 0.4m | f brv 7 |
| 9PBf dl hl hu | ND | 1.0 | aanp | ND | 9.m | f brv 7 |
| Ce,l il Zfl iv | ND | 0.90 | aanp | ND | 0.md | f brv 7 |
| 1:1:1PTi-ce,l il uœet hu | ND | 0.90 | aanp | ND | 1.1 | f brv 7 |
| Ct inl h8Tuol t ce,l i-yu | ND | 0.90 | aanp | ND | 1.7 | f brv 7 |
| Buhzuhu | ND | 0.90 | aanp | ND | 0.53 | f brv 7 |
| 1:9PD-ce,l il uœet hu | ND | 0.90 | aanp | ND | 0.d1 | f brv 7 |
| Ti-ce,l il uœuhu | ND | 0.90 | aanp | ND | 1.1 | f brv 7 |
| 1:9PD-ce,l il ail at hu | ND | 0.90 | aanp | ND | 0.m9 | f brv 7 |
| Bil v l y-ce,l il v uœet hu | ND | 0.90 | aanp | ND | 1.7 | f brv 7 |
| c-sPl:7PD-ce,l il ail auhu | ND | 0.90 | aanp | ND | 0.m1 | f brv 7 |
| 3PMuœV,P9P2uhdl hl hu | ND | 0.90 | aanp | ND | 0.d9 | f brv 7 |
| Tl ,f uhu | ND | 0.90 | aanp | ND | 0.4 | f brv 7 |
| ol t hsPl:7PD-ce,l il ail auhu | ND | 0.90 | aanp | ND | 0.m1 | f brv 7 |
| 1:1:9PTi-ce,l il uœet hu | ND | 0.90 | aanp | ND | 1.1 | f brv 7 |
| Tuol t ce,l il uœeuhu | ND | 0.90 | aanp | ND | 1.3 | f brv 7 |
| 9PHuxt hl hu | ND | 0. 0 | aanp | ND | 9.0 | f brv 7 |
| D-nil v l ce,l il v uœet hu | ND | 0.90 | aanp | ND | 1.4 | f brv 7 |
| 1:9PD-nil v l uœet hu | ND | 0.90 | aanp | ND | 1. | f brv 7 |
| Ce,l il nuhzuhu | ND | 0.90 | aanp | ND | 0.m9 | f brv 7 |
| EœV,nuhzuhu | ND | 0.90 | aanp | ND | 0.d4 | f brv 7 |
| v :aPXV,uhus | ND | 0.30 | aanp | ND | 1.4 | f brv 7 |
| l PXV,uhu | ND | 0.90 | aanp | ND | 0.d4 | f brv 7 |
| SdVuhu | ND | 0.90 | aanp | ND | 0.d | f brv 7 |
| Bil v l Zfl iv | ND | 0.90 | aanp | ND | 9.1 | f brv 7 |
| 1:1:9:9PTuol t ce,l il uœet hu | ND | 0.90 | aanp | ND | 1.3 | f brv 7 |
| 1:1:1:9PTuol t ce,l il uœet hu | ND | 0.90 | aanp | ND | 1.3 | f brv 7 |
| 3PEœV,dl ,f uhu | ND | 0.90 | aanp | ND | 0.md | f brv 7 |
| 1:7: PTi-v uœV,nuhzuhu | ND | 0.90 | aanp | ND | 0.md | f brv 7 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 0m 94 **Project#:** 14m7.0070S000

**Client:** Rl f x8Assl c-t ous **Location:** AB&l8gl f hyiV

| QC1160027 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1:9:3PTi-v uœV,nuhzuhu | ND | 0.90 | aanp | ND | 0.md | f brv 7 |
| 1:7PD-ce,l il nuhzuhu | ND | 0.90 | aanp | ND | 1.9 | f brv 7 |
| 1:3PD-ce,l il nuhzuhu | ND | 0.90 | aanp | ND | 1.9 | f brv 7 |
| BuhzV,8ce,l i-yu | ND | 0.90 | aanp | ND | 1.0 | f brv 7 |
| 1:9PD-ce,l il nuhzuhu | ND | 0.90 | aanp | ND | 1.9 | f brv 7 |
| 1:9:3PTi-ce,l il nuhzuhu | ND | 0.90 | aanp | ND | 1. | f brv 7 |
| Huxt ce,l il nf d y-uhu | ND | 0.90 | aanp | ND | 9.1 | f brv 7 |
| Nt aeœt ,uhu | ND | 1.0 | aanp | ND | .9 | f brv 7 |
| XV,uhu8(d d ,) | ND | 0.90 | aanp | ND | 0.d4 | f brv 7 |

| QC1160027 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bil v l Z,f l il nuhzuhu | m9 | 50P130 | f brv 7 |

Lubuhy

**ND:** Nl d8Duœucœuy

**RL (V):** Rual ie•hb8L-v -o

**Result (M):** Rusf ,d•h8/v t ss8 h-cs

**Result (V):** Rusf ,d•h8bl ,f v u8 h-cs

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 30/ 34a
**Project#:** 1a/ 9.0090S000
**Client:** Rl f xÆPssl c-t ous
**Location:** PB&lÆvl f hdiy

**Type:** BS
**Diln Fac:** 1.000
**Prep:** METHOD
**Lab ID:** QC1150943
**Batch#:** 924229
**Analysis:** E8PÆTO 13
**Matrix:** P-i
**Analyzed:** 05r11r42Æ1064/
**Analyst:** 7: 7

| QC1160325 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1Zl D-Nyf l il uœet hu | 10.00 | / .a42 | nnpb | / a | a0 190 |
| viul hÆ14 | 10.00 | / .423 | nnpb | / 4 | a0 190 |
| viul hÆ112 | 10.00 | / ./ 34 | nnpb | 100 | a0 190 |
| Ce,l il F uœet hu | 10.00 | mm82 | nnpb | m/ | a0 190 |
| V-hy,ÆCe,l i-du | 10.00 | / .153 | nnpb | / 4 | a0 190 |
| Bil F l F uœet hu | 10.00 | / .534 | nnpb | / a | a0 190 |
| Ce,l il uœet hu | 10.00 | / .05/ | nnpb | / 1 | a0 190 |
| Ti-ce,l il Nyf l il F uœet hu | 10.00 | / .a54 | nnpb | / m | a0 190 |
| 1Zl D-ce,l il uœeuhu | 10.00 | / .243 | nnpb | / 2 | a0 190 |
| viul hÆ119 | 10.00 | 10.01 | nnpb | 100 | a0 190 |
| Pcudl hu | 10.00 | m/ 2a | nnpb | m/ | a0 190 |
| Ct ipl hÆD-sf ,Ndu | 10.00 | / .m2/ | nnpb | / m | a0 190 |
| Isl nil nt hl ,Æl8P) | 10.00 | m/ 41 | nnpb | m/ | a0 190 |
| Muœey,uhuÆCe,l i-du | 10.00 | / .521 | nnpb | / 5 | a0 190 |
| ol t hs 1Zl4 D-ce,l il uœeuhu | 10.00 | / .2m9 | nnpb | / 3 | a0 190 |
| MTBE | 10.00 | / ./ 1a | nnpb | / / | a0 190 |
| h Huxt hu | 10.00 | / .205 | nnpb | / 2 | a0 190 |
| 1Zl D-ce,l il uœet hu | 10.00 | / .3mm | nnpb | / 5 | a0 190 |
| V-hy,ÆPcudl ou | 10.00 | m434 | nnpb | m9 | a0 190 |
| c-s 1Zl4 D-ce,l il uœeuhu | 10.00 | / .25a | nnpb | / 3 | a0 190 |
| 4 Bf dl hl hu | 10.00 | 10.12 | nnpb | 101 | a0 190 |
| Ce,l il NliF | 10.00 | / .a19 | nnpb | / a | a0 190 |
| 1Zl Zl Ti-ce,l il uœet hu | 10.00 | / .m55 | nnpb | / / | a0 190 |
| Ct ipl hÆTuol t ce,l i-du | 10.00 | / .aa1 | nnpb | / m | a0 190 |
| Buhzuhu | 10.00 | / .a20 | nnpb | / a | a0 190 |
| 1Zl4 D-ce,l il uœet hu | 10.00 | / .931 | nnpb | / 2 | a0 190 |
| Ti-ce,l il uœeuhu | 10.00 | 10.9a | nnpb | 102 | a0 190 |
| 1Zl4 D-ce,l il nil nt hu | 10.00 | m/ 99 | nnpb | m/ | a0 190 |
| Bil F l d-ce,l il F uœet hu | 10.00 | / .m51 | nnpb | / / | a0 190 |
| c-s 1Zl9 D-ce,l il nil nuhu | 10.00 | / ./ 05 | nnpb | / / | a0 190 |
| 2 Muœey, 4 8uhdl hl hu | 10.00 | 10.2/ | nnpb | 103 | a0 190 |
| Tl ,f uhu | 10.00 | 10.9/ | nnpb | 102 | a0 190 |
| ol t hs 1Zl9 D-ce,l il nil nuhu | 10.00 | 10.0m | nnpb | 101 | a0 190 |
| 1Zl Zl4 Ti-ce,l il uœet hu | 10.00 | 10.0m | nnpb | 101 | a0 190 |
| Tuol t ce,l il uœeuhu | 10.00 | 11.94 | nnpb | 119 | a0 190 |
| 4 Huxt hl hu | 10.00 | 10.35 | nnpb | 105 | a0 190 |
| D-pil F l ce,l il F uœet hu | 10.00 | 10.39 | nnpb | 103 | a0 190 |
| 1Zl4 D-pil F l uœet hu | 10.00 | 10.3/ | nnpb | 105 | a0 190 |
| Ce,l il puhzuhu | 10.00 | 10.51 | nnpb | 105 | a0 190 |
| Eœey,puhzuhu | 10.00 | 11.95 | nnpb | 112 | a0 190 |
| F Zh Xy,uhus | 40.00 | 49.12 | nnpb | 115 | a0 190 |
| l Xy,uhu | 10.00 | 11./ 4 | nnpb | 11/ | a0 190 |
| Soyiuhu | 10.00 | 11.aa | nnpb | 11m | a0 190 |
| Bil F l NliF | 10.00 | 11.45 | nnpb | 119 | a0 190 |
| 1Zl Zl4 Zl4 Tuol t ce,l il uœet hu | 10.00 | 10./ 1 | nnpb | 10/ | a0 190 |
| 1Zl Zl Zl4 Tuol t ce,l il uœet hu | 10.00 | 10.21 | nnpb | 102 | a0 190 |
| 2 Eœey,dl ,f uhu | 10.00 | 14./ 4 | nnpb | 14/ | a0 190 |
| 1Z9Z3 Ti-Fuœey,puhzuhu | 10.00 | 11.m/ | nnpb | 11/ | a0 190 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 30/ 34a **Project#:** 1a/ 9.0090S000

**Client:** Rl f xÆPssl c-t ous **Location:** PB&lÆvl f hdiy

| QC1160325 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| 1Z4Z2 Ti-F uœey,puhzuhu | 10.00 | 14.34 | nnpb | 143 | a0 190 |
| 1Z9 D-ce,l il puhzuhu | 10.00 | 11.1/ | nnpb | 114 | a0 190 |
| 1Z2 D-ce,l il puhzuhu | 10.00 | 10./ 9 | nnpb | 10/ | a0 190 |
| Buhzy,Æce,l i-du | 10.00 | 11.50 | nnpb | 115 | a0 190 |
| 1Z4 D-ce,l il puhzuhu | 10.00 | 11.5m | nnpb | 11a | a0 190 |
| 1Z4Z2 Ti-ce,l il puhzuhu | 10.00 | 11.1/ | nnpb | 114 | a0 190 |
| Huxt ce,l il pf d d-uhu | 10.00 | 11.23 | nnpb | 112 | a0 190 |
| : t neœt ,uhu | 10.00 | 14.4m | nnpb | 149 | a0 190 |

| QC1160325 Surrogate | %REC | Limits |
|---|---|---|
| Bil F l N,f l il puhzuhu | 112 | 50 120 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1150945 **Batch#:** 924229 **Analysis:** E8PÆTO 13

**Matrix:** P-i **Analyzed:** 05r11r42Æ16l9 **Analyst:** 7: 7

| QC1160326 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 1Z D-N,f l il uœet hu | 10.00 | / .a40 | nnpb | / a | a0 190 | 0 | 43 |
| viul hÆ14 | 10.00 | / .225 | nnpb | / 2 | a0 190 | 4 | 43 |
| viul hÆ112 | 10.00 | 10.11 | nnpb | 101 | a0 190 | 4 | 43 |
| Ce,l il F uœet hu | 10.00 | m/ / a | nnpb | / 0 | a0 190 | 4 | 43 |
| V-hy,ÆCe,l i-du | 10.00 | / .450 | nnpb | / 9 | a0 190 | 1 | 43 |
| Bil F l F uœet hu | 10.00 | / .m99 | nnpb | / m | a0 190 | 4 | 43 |
| Ce,l il uœet hu | 10.00 | / .152 | nnpb | / 4 | a0 190 | 1 | 43 |
| Ti-ce,l il N,f l il F uœet hu | 10.00 | / ./ / a | nnpb | 100 | a0 190 | 4 | 43 |
| 1Z D-ce,l il uœuhu | 10.00 | / .530 | nnpb | / 5 | a0 190 | 4 | 43 |
| viul hÆ119 | 10.00 | 10.40 | nnpb | 104 | a0 190 | 4 | 43 |
| Pcud hu | 10.00 | mma3 | nnpb | m/ | a0 190 | 1 | 43 |
| Ct ipl hÆD-sf ,N-du | 10.00 | 10.09 | nnpb | 100 | a0 190 | 4 | 43 |
| Isl nil nt hl ,Æ(l8P) | 10.00 | / .94m | nnpb | / 9 | a0 190 | 2 | 43 |
| Muœey,uhuÆCe,l i-du | 10.00 | / .5m1 | nnpb | / a | a0 190 | 0 | 43 |
| ot hs 1Z4 D-ce,l il uœuhu | 10.00 | / .22m | nnpb | / 2 | a0 190 | 0 | 43 |
| MTBE | 10.00 | / ./ 13 | nnpb | / / | a0 190 | 0 | 43 |
| h Huxt hu | 10.00 | / .321 | nnpb | / 3 | a0 190 | 1 | 43 |
| 1Z D-ce,l il uœet hu | 10.00 | / .951 | nnpb | / 2 | a0 190 | 4 | 43 |
| V-hy,ÆPcud ou | 10.00 | m10/ | nnpb | m1 | a0 190 | 4 | 43 |
| c-s 1Z4 D-ce,l il uœuhu | 10.00 | / .31m | nnpb | / 3 | a0 190 | 1 | 43 |
| 4 Bf d hl hu | 10.00 | 10.9a | nnpb | 102 | a0 190 | 4 | 43 |
| Ce,l il N,i F | 10.00 | / .m04 | nnpb | / m | a0 190 | 1 | 43 |
| 1ZlZ Ti-ce,l il uœet hu | 10.00 | 10.0/ | nnpb | 101 | a0 190 | 4 | 43 |
| Ct ipl hÆTud ce,l i-du | 10.00 | / ./ 50 | nnpb | 100 | a0 190 | 4 | 43 |
| Buhzuhu | 10.00 | / ./ 0/ | nnpb | / / | a0 190 | 4 | 43 |
| 1Z4 D-ce,l il uœet hu | 10.00 | / .319 | nnpb | / 3 | a0 190 | 4 | 43 |
| Ti-ce,l il uœuhu | 10.00 | 10.9a | nnpb | 102 | a0 190 | 0 | 43 |
| 1Z4 D-ce,l il nil nt hu | 10.00 | mm/ 3 | nnpb | m/ | a0 190 | 0 | 43 |
| Bil F l d-ce,l il F uœet hu | 10.00 | / .m25 | nnpb | / m | a0 190 | 0 | 43 |
| c-s 1Z9 D-ce,l il nil nuhu | 10.00 | 10.01 | nnpb | 100 | a0 190 | 1 | 43 |
| 2 Muœey, 4 8uhd hl hu | 10.00 | 10.93 | nnpb | 109 | a0 190 | 1 | 43 |
| Tl ,f uhu | 10.00 | 10.2a | nnpb | 103 | a0 190 | 1 | 43 |
| ot hs 1Z9 D-ce,l il nil nuhu | 10.00 | 10.92 | nnpb | 109 | a0 190 | 9 | 43 |
| 1ZlZ4 Ti-ce,l il uœet hu | 10.00 | 10.45 | nnpb | 109 | a0 190 | 4 | 43 |
| Tud ce,l il uœuhu | 10.00 | 11.5/ | nnpb | 11a | a0 190 | 9 | 43 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 30/ 34a **Project#:** 1a/ 9.0090S000

**Client:** Rl f xÆPssl c-t ous **Location:** PB&lAvl f hdiy

| QC1160326 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| 4 Huxt hl hu | 10.00 | 10.m4 | nnpb | 10m | a0 190 | 4 | 43 |
| D-pil Fl ce,l il F uœet hu | 10.00 | 10.9a | nnpb | 102 | a0 190 | 4 | 43 |
| 1Z4 D-pil Fl uœet hu | 10.00 | 10.5/ | nnpb | 10a | a0 190 | 1 | 43 |
| Ce,l il puhzuhu | 10.00 | 10.a5 | nnpb | 10m | a0 190 | 1 | 43 |
| Eœey,puhzuhu | 10.00 | 11.29 | nnpb | 112 | a0 190 | 1 | 43 |
| F Zn Xy,uhus | 40.00 | 49.45 | nnpb | 115 | a0 190 | 1 | 43 |
| l Xy,uhu | 10.00 | 11.m/ | nnpb | 11/ | a0 190 | 0 | 43 |
| Soyiuhu | 10.00 | 14.4a | nnpb | 149 | a0 190 | 2 | 43 |
| Bil Fl NiF | 10.00 | 11.4a | nnpb | 119 | a0 190 | 0 | 43 |
| 1Z1Z4Z4 Tuoit ce,l il uœet hu | 10.00 | 10.55 | nnpb | 10a | a0 190 | 4 | 43 |
| 1Z1Z1Z4 Tuoit ce,l il uœet hu | 10.00 | 10.21 | nnpb | 102 | a0 190 | 0 | 43 |
| 2 Eœey,d ,f uhu | 10.00 | 14.m9 | nnpb | 14m | a0 190 | 1 | 43 |
| 1Z9Z3 Ti-F uœey,puhzuhu | 10.00 | 11.m0 | nnpb | 11m | a0 190 | 1 | 43 |
| 1Z4Z2 Ti-F uœey,puhzuhu | 10.00 | 14.29 | nnpb | 142 | a0 190 | 1 | 43 |
| 1Z9 D-ce,l il puhzuhu | 10.00 | 11.19 | nnpb | 111 | a0 190 | 1 | 43 |
| 1Z2 D-ce,l il puhzuhu | 10.00 | 10.a3 | nnpb | 10a | a0 190 | 4 | 43 |
| Buhzy,Ace,l i-du | 10.00 | 11.52 | nnpb | 115 | a0 190 | 0 | 43 |
| 1Z4 D-ce,l il puhzuhu | 10.00 | 11.20 | nnpb | 112 | a0 190 | 4 | 43 |
| 1Z4Z2 Ti-ce,l il puhzuhu | 10.00 | 10.m5 | nnpb | 10/ | a0 190 | 9 | 43 |
| Huxt ce,l il pf d d-uhu | 10.00 | 11.93 | nnpb | 119 | a0 190 | 1 | 43 |
| : t neœet ,uhu | 10.00 | 11.// | nnpb | 140 | a0 190 | 4 | 43 |

| QC1160326 Surrogate | %REC | Limits |
|---|---|---|
| Bil Fl N,f l il puhzuhu | 110 | 50 120 |

Luguhd

**RPD:** Ru,t ebuÆ8uicuho D-NWiuhcu

**Result (V):** Rusf ,cÆhÆol ,f F uÆh-os

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 0m 47 **Project#:** 17m9.0090S000

**Client:** Rl f x8Assl c-t ous **Location:** AB&l8gl f hyiV

**Type:** BLANK **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1150947 **Batch#:** 934339 **Analysis:** E2A8TOPl

**Matrix:** A-i **Analyzed:** 05r11r438136l0 **Analyst:** / N/

| QC1160327 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1:1PD-Zfl il uœet hu | ND | 1.0 | aanp | ND | 4.7 | f brv 9 |
| giul h8l4 | ND | 0.40 | aanp | ND | 0.mm | f brv 9 |
| giul h8l13 | ND | 0.40 | aanp | ND | 1.3 | f brv 9 |
| Ce,l il v uœet hu | ND | 0.40 | aanp | ND | 0.31 | f brv 9 |
| F-hV,8Ce,l i-yu | ND | 0.40 | aanp | ND | 0. 1 | f brv 9 |
| Bil v l v uœet hu | ND | 0.40 | aanp | ND | 0.7d | f brv 9 |
| Ce,l il uœet hu | ND | 0.40 | aanp | ND | 0. 9 | f brv 9 |
| Ti-ce,l il Zfl il v uœet hu | ND | 0.40 | aanp | ND | 1.1 | f brv 9 |
| 1:1PD-ce,l il uœuhu | ND | 0.40 | aanp | ND | 0.7m | f brv 9 |
| giul h8l19 | ND | 0.40 | aanp | ND | 1. | f brv 9 |
| Acudl hu | ND | 1.0 | aanp | ND | 4.3 | f brv 9 |
| Ct inl h8D-sf ,Zyu | ND | 0.40 | aanp | ND | 0.54 | f brv 9 |
| Isl ail at hl ,8(l2A) | ND | 1.0 | aanp | ND | 4. | f brv 9 |
| MuœV,uhu8Ce,l i-yu | ND | 0.40 | aanp | ND | 0.5m | f brv 9 |
| ol t hsPl:4PD-ce,l il uœuhu | ND | 0.40 | aanp | ND | 0.7m | f brv 9 |
| MTBE | ND | 0.40 | aanp | ND | 0.74 | f brv 9 |
| hPHuxt hu | ND | 0.40 | aanp | ND | 0.70 | f brv 9 |
| 1:1PD-ce,l il uœet hu | ND | 0.40 | aanp | ND | 0.d1 | f brv 9 |
| F-hV,8Acudl ou | ND | 1.0 | aanp | ND | 9. | f brv 9 |
| c-sPl:4PD-ce,l il uœuhu | ND | 0.40 | aanp | ND | 0.7m | f brv 9 |
| 4PBf dl hl hu | ND | 1.0 | aanp | ND | 4.m | f brv 9 |
| Ce,l il Zfl iv | ND | 0.40 | aanp | ND | 0.md | f brv 9 |
| 1:1:1PTi-ce,l il uœet hu | ND | 0.40 | aanp | ND | 1.1 | f brv 9 |
| Ct inl h8Tuol t ce,l i-yu | ND | 0.40 | aanp | ND | 1.9 | f brv 9 |
| Buhzuhu | ND | 0.40 | aanp | ND | 0.53 | f brv 9 |
| 1:4PD-ce,l il uœet hu | ND | 0.40 | aanp | ND | 0.d1 | f brv 9 |
| Ti-ce,l il uœuhu | ND | 0.40 | aanp | ND | 1.1 | f brv 9 |
| 1:4PD-ce,l il ail at hu | ND | 0.40 | aanp | ND | 0.m4 | f brv 9 |
| Bil v l y-ce,l il v uœet hu | ND | 0.40 | aanp | ND | 1.9 | f brv 9 |
| c-sPl:9PD-ce,l il ail auhu | ND | 0.40 | aanp | ND | 0.m1 | f brv 9 |
| 3PMuœV,P4P2uhdl hl hu | ND | 0.40 | aanp | ND | 0.d4 | f brv 9 |
| Tl ,f uhu | ND | 0.40 | aanp | ND | 0.7 | f brv 9 |
| ol t hsPl:9PD-ce,l il ail auhu | ND | 0.40 | aanp | ND | 0.m1 | f brv 9 |
| 1:1:4PTi-ce,l il uœet hu | ND | 0.40 | aanp | ND | 1.1 | f brv 9 |
| Tuol t ce,l il uœeuhu | ND | 0.40 | aanp | ND | 1.3 | f brv 9 |
| 4PHuxt hl hu | ND | 0. 0 | aanp | ND | 4.0 | f brv 9 |
| D-nil v l ce,l il v uœet hu | ND | 0.40 | aanp | ND | 1.7 | f brv 9 |
| 1:4PD-nil v l uœet hu | ND | 0.40 | aanp | ND | 1. | f brv 9 |
| Ce,l il nuhzuhu | ND | 0.40 | aanp | ND | 0.m4 | f brv 9 |
| EœV,nuhzuhu | ND | 0.40 | aanp | ND | 0.d7 | f brv 9 |
| v :aPXV,uhus | ND | 0.30 | aanp | ND | 1.7 | f brv 9 |
| l PXV,uhu | ND | 0.40 | aanp | ND | 0.d7 | f brv 9 |
| SdVuhu | ND | 0.40 | aanp | ND | 0.d | f brv 9 |
| Bil v l Zfl iv | ND | 0.40 | aanp | ND | 4.1 | f brv 9 |
| 1:1:4:4PTuol t ce,l il uœet hu | ND | 0.40 | aanp | ND | 1.3 | f brv 9 |
| 1:1:1:4PTuol t ce,l il uœet hu | ND | 0.40 | aanp | ND | 1.3 | f brv 9 |
| 3PEœV,dl ,f uhu | ND | 0.40 | aanp | ND | 0.md | f brv 9 |
| 1:9: PTi-v uœV,nuhzuhu | ND | 0.40 | aanp | ND | 0.md | f brv 9 |

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 0m 47 **Project#:** 17m9.0090S000

**Client:** Rl f x8Assl c-t ous **Location:** AB&l8gl f hyiV

| QC1160327 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| 1:4:3PTi-v uœeV,nuhzuhu | ND | 0.40 | aanp | ND | 0.md | f brv 9 |
| 1:9PD-ce,l il nuhzuhu | ND | 0.40 | aanp | ND | 1.4 | f brv 9 |
| 1:3PD-ce,l il nuhzuhu | ND | 0.40 | aanp | ND | 1.4 | f brv 9 |
| BuhzV,8ce,l i-yu | ND | 0.40 | aanp | ND | 1.0 | f brv 9 |
| 1:4PD-ce,l il nuhzuhu | ND | 0.40 | aanp | ND | 1.4 | f brv 9 |
| 1:4:3PTi-ce,l il nuhzuhu | ND | 0.40 | aanp | ND | 1. | f brv 9 |
| Huxt ce,l il nf d y-uhu | ND | 0.40 | aanp | ND | 4.1 | f brv 9 |
| Nt aeœet ,uhu | ND | 1.0 | aanp | ND | .4 | f brv 9 |
| XV,uhu8(d d ,) | ND | 0.40 | aanp | ND | 0.d7 | f brv 9 |

| QC1160327 Surrogate | %REC | Limits | Units (M) |
|---|---|---|---|
| Bil v l Z,f l il nuhzuhu | 10m | 50P130 | f brv 9 |

Lubuhy

**ND:** Nl d8Duuuuauy

**RL (V):** Rual ie•hb8L-v -o

**Result (M):** Rusf ,d•h8/v t ss8 h-os

**Result (V):** Rusf ,d•h8bl ,f v u8 h-os

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-41-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/30/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-001 **Received:** 06/04/24 **Analyst:** JSA

| 509527-001 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **0.92** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Oxygen** | **13** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Methane | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Nitrogen** | **83** | 10 | %v/v | 2.000 | 341956 | 06/05/24 |

**Field ID:** SVP-41-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/30/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-002 **Received:** 06/04/24 **Analyst:** JSA

| 509527-002 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **3.2** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Oxygen** | **3.2** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Methane | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Nitrogen** | **89** | 10 | %v/v | 2.000 | 341956 | 06/05/24 |

**Field ID:** SVP-45-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/30/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-003 **Received:** 06/04/24 **Analyst:** JSA

| 509527-003 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **2.1** | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| Oxygen | ND | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| **Methane** | **6.0** | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| **Nitrogen** | **87** | 11 | %v/v | 2.200 | 341956 | 06/05/24 |

**Field ID:** SVP-53-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/30/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-004 **Received:** 06/04/24 **Analyst:** JSA

| 509527-004 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **0.46** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Oxygen | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Methane** | **5.3** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Nitrogen** | **89** | 10 | %v/v | 2.000 | 341956 | 06/05/24 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-53-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/30/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-005 **Received:** 06/04/24 **Analyst:** JSA

| 509527-005 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **1.1** | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| **Oxygen** | **12** | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| **Methane** | **0.69** | 0.22 | %v/v | 2.200 | 341956 | 06/05/24 |
| **Nitrogen** | **82** | 11 | %v/v | 2.200 | 341956 | 06/05/24 |

**Field ID:** SVP-06-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/31/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-006 **Received:** 06/04/24 **Analyst:** JSA

| 509527-006 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **15** | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| Oxygen | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Methane** | **2.8** | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Nitrogen** | **77** | 11 | %v/v | 2.100 | 341956 | 06/05/24 |

**Field ID:** SVP-06-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/31/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-007 **Received:** 06/04/24 **Analyst:** JSA

| 509527-007 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **14** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Oxygen | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Methane** | **2.8** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Nitrogen** | **79** | 10 | %v/v | 2.000 | 341956 | 06/05/24 |

**Field ID:** SVP-25-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/31/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-008 **Received:** 06/04/24 **Analyst:** JSA

| 509527-008 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **1.1** | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Oxygen** | **18** | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| Methane | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Nitrogen** | **76** | 11 | %v/v | 2.100 | 341956 | 06/05/24 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-36-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/31/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-009 **Received:** 06/04/24 **Analyst:** JSA

| 509527-009 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **0.46** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Oxygen** | **9.2** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Methane** | **16** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Nitrogen** | **68** | 12 | %v/v | 2.400 | 341956 | 06/05/24 |

**Field ID:** SVP-13-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-010 **Received:** 06/04/24 **Analyst:** JSA

| 509527-010 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **0.68** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Oxygen** | **16** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Methane** | **0.25** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Nitrogen** | **78** | 12 | %v/v | 2.400 | 341956 | 06/05/24 |

**Field ID:** SVP-10-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-011 **Received:** 06/04/24 **Analyst:** JSA

| 509527-011 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| **Helium** | **0.36** | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **0.78** | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Oxygen** | **12** | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Methane** | **0.86** | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Nitrogen** | **82** | 12 | %v/v | 2.300 | 341956 | 06/05/24 |

**Field ID:** SVP-10-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-012 **Received:** 06/04/24 **Analyst:** JSA

| 509527-012 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **4.0** | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| **Oxygen** | **14** | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| Methane | ND | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| **Nitrogen** | **79** | 8.5 | %v/v | 1.700 | 341956 | 06/05/24 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-DUP-01 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-013 **Received:** 06/04/24 **Analyst:** JSA

| 509527-013 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **4.0** | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| **Oxygen** | **14** | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| Methane | ND | 0.17 | %v/v | 1.700 | 341956 | 06/05/24 |
| **Nitrogen** | **79** | 8.5 | %v/v | 1.700 | 341956 | 06/05/24 |

**Field ID:** SVP-13-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-014 **Received:** 06/04/24 **Analyst:** JSA

| 509527-014 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **17** | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| Oxygen | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Methane** | **52** | 0.32 | %v/v | 3.150 | 342065 | 06/06/24 |
| **Nitrogen** | **28** | 11 | %v/v | 2.100 | 341956 | 06/05/24 |

**Field ID:** SVP-DUP-02 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-015 **Received:** 06/04/24 **Analyst:** JSA

| 509527-015 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **17** | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| Oxygen | ND | 0.21 | %v/v | 2.100 | 341956 | 06/05/24 |
| **Methane** | **52** | 0.32 | %v/v | 3.150 | 342065 | 06/06/24 |
| **Nitrogen** | **28** | 11 | %v/v | 2.100 | 341956 | 06/05/24 |

**Field ID:** SVP-62-4 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-016 **Received:** 06/04/24 **Analyst:** JSA

| 509527-016 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **0.41** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Oxygen** | **17** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Methane** | **1.9** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Nitrogen** | **75** | 12 | %v/v | 2.400 | 341956 | 06/05/24 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-DUP-03 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-017 **Received:** 06/04/24 **Analyst:** JSA

| 509527-017 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **0.42** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Oxygen** | **17** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Methane** | **1.9** | 0.24 | %v/v | 2.400 | 341956 | 06/05/24 |
| **Nitrogen** | **75** | 12 | %v/v | 2.400 | 341956 | 06/05/24 |

**Field ID:** SVP-57-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-018 **Received:** 06/04/24 **Analyst:** JSA

| 509527-018 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **0.48** | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| Oxygen | ND | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Methane** | **24** | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Nitrogen** | **70** | 12 | %v/v | 2.300 | 341956 | 06/05/24 |

**Field ID:** SVP-32-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/31/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-019 **Received:** 06/04/24 **Analyst:** JSA

| 509527-019 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **1.6** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| Oxygen | ND | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Methane** | **2.5** | 0.20 | %v/v | 2.000 | 341956 | 06/05/24 |
| **Nitrogen** | **91** | 10 | %v/v | 2.000 | 341956 | 06/05/24 |

**Field ID:** SVP-52-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 05/31/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-020 **Received:** 06/04/24 **Analyst:** JSA

| 509527-020 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| Carbon Monoxide | ND | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Carbon Dioxide** | **1.1** | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Oxygen** | **19** | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| Methane | ND | 0.23 | %v/v | 2.300 | 341956 | 06/05/24 |
| **Nitrogen** | **77** | 12 | %v/v | 2.300 | 341956 | 06/05/24 |

# Enthalpy Analytical - Orange Analytical Report

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-25-5 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-021 **Received:** 06/04/24 **Analyst:** JSA

| 509527-021 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| Helium | ND | 0.24 | %v/v | 2.400 | 342065 | 06/06/24 |
| Carbon Monoxide | ND | 0.24 | %v/v | 2.400 | 342065 | 06/06/24 |
| **Carbon Dioxide** | **3.1** | 0.24 | %v/v | 2.400 | 342065 | 06/06/24 |
| **Oxygen** | **16** | 0.24 | %v/v | 2.400 | 342065 | 06/06/24 |
| **Methane** | **0.49** | 0.24 | %v/v | 2.400 | 342065 | 06/06/24 |
| **Nitrogen** | **75** | 12 | %v/v | 2.400 | 342065 | 06/06/24 |

**Field ID:** SVP-36-8 **Matrix:** Air **Prep:** METHOD
**Type:** SAMPLE **Sampled:** 06/03/24 **Analysis:** ASTM D1946
**Lab ID:** 509527-022 **Received:** 06/04/24 **Analyst:** JSA

| 509527-022 Analyte | Result | RL | Units | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|---|
| **Helium** | **0.39** | 0.26 | %v/v | 2.600 | 342065 | 06/06/24 |
| Carbon Monoxide | ND | 0.26 | %v/v | 2.600 | 342065 | 06/06/24 |
| **Carbon Dioxide** | **1.0** | 0.26 | %v/v | 2.600 | 342065 | 06/06/24 |
| **Oxygen** | **14** | 0.26 | %v/v | 2.600 | 342065 | 06/06/24 |
| **Methane** | **1.9** | 0.26 | %v/v | 2.600 | 342065 | 06/06/24 |
| **Nitrogen** | **78** | 13 | %v/v | 2.600 | 342065 | 06/06/24 |

**Type:** BLANK **Diln Fac:** 1.000 **Prep:** METHOD
**Lab ID:** QC1158637 **Batch#:** 341956 **Analysis:** ASTM D1946
**Matrix:** Air **Analyzed:** 06/05/24 **Analyst:** JSA

| QC1158637 Analyte | Result | RL | Units |
|---|---|---|---|
| Helium | ND | 0.10 | %v/v |
| Carbon Monoxide | ND | 0.10 | %v/v |
| Carbon Dioxide | ND | 0.10 | %v/v |
| Oxygen | ND | 0.10 | %v/v |
| Methane | ND | 0.10 | %v/v |
| Nitrogen | ND | 5.0 | %v/v |

**Type:** BLANK **Diln Fac:** 1.000 **Prep:** METHOD
**Lab ID:** QC1158981 **Batch#:** 342065 **Analysis:** ASTM D1946
**Matrix:** Air **Analyzed:** 06/06/24 **Analyst:** JSA

| QC1158981 Analyte | Result | RL | Units |
|---|---|---|---|
| Helium | ND | 0.10 | %v/v |
| Carbon Monoxide | ND | 0.10 | %v/v |
| Carbon Dioxide | ND | 0.10 | %v/v |
| Oxygen | ND | 0.10 | %v/v |
| Methane | ND | 0.10 | %v/v |
| Nitrogen | ND | 5.0 | %v/v |

Legend
**ND:** Not Detected
**RL:** Reporting Limit

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Type:** BS **Dil'n Fac:** 1.000 **Prep:** METHOD
**Lab ID:** QC1158635 **Batch#:** 341956 **Analysis:** ASTM D1946
**Matrix:** Air **Analyzed:** 06/05/24 **Analyst:** JSA

| QC1158635 Analyte | Spiked | Result | %REC | Limits | Units |
|---|---|---|---|---|---|
| Helium | 10.00 | 10.66 | 107 | 85-115 | %v/v |
| Carbon Monoxide | 5.000 | 4.916 | 98 | 85-115 | %v/v |
| Carbon Dioxide | 5.000 | 4.389 | 88 | 85-115 | %v/v |
| Oxygen | 3.500 | 3.563 | 102 | 85-115 | %v/v |
| Methane | 5.000 | 4.853 | 97 | 85-115 | %v/v |
| Nitrogen | 5.000 | 5.346 | 107 | 85-115 | %v/v |

**Type:** BSD **Dil'n Fac:** 1.000 **Prep:** METHOD
**Lab ID:** QC1158636 **Batch#:** 341956 **Analysis:** ASTM D1946
**Matrix:** Air **Analyzed:** 06/05/24 **Analyst:** JSA

| QC1158636 Analyte | Spiked | Result | %REC | Limits | Units | RPD | Lim |
|---|---|---|---|---|---|---|---|
| Helium | 10.00 | 10.68 | 107 | 85-115 | %v/v | 0 | 10 |
| Carbon Monoxide | 5.000 | 4.826 | 97 | 85-115 | %v/v | 2 | 10 |
| Carbon Dioxide | 5.000 | 4.349 | 87 | 85-115 | %v/v | 1 | 10 |
| Oxygen | 3.500 | 3.518 | 101 | 85-115 | %v/v | 1 | 10 |
| Methane | 5.000 | 4.823 | 96 | 85-115 | %v/v | 1 | 10 |
| Nitrogen | 5.000 | 5.335 | 107 | 85-115 | %v/v | 0 | 10 |

Legend

**RPD:** Relative Percent Difference

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| | | | | | |
|---|---|---|---|---|---|
| **Field ID:** | SVP-32-8 | **Diln Fac:** | 2.000 | **Prep:** | METHOD |
| **Type:** | SDUP | **Batch#:** | 341956 | **Analysis:** | ASTM D1946 |
| **MSS Lab ID:** | 509527-019 | **Sampled:** | 05/31/24 | **Analyst:** | JSA |
| **Lab ID:** | QC1158638 | **Received:** | 06/04/24 | | |
| **Matrix:** | Air | **Analyzed:** | 06/05/24 | | |

| QC1158638 Analyte | MSS Result | Result | RL | Units | RPD | Lim |
|---|---|---|---|---|---|---|
| Helium | <0.2000 | ND | 0.2000 | %v/v | NC | 20 |
| Carbon Monoxide | <0.2000 | ND | 0.2000 | %v/v | NC | 20 |
| **Carbon Dioxide** | 1.639 | **1.651** | 0.2000 | %v/v | 1 | 20 |
| Oxygen | <0.2000 | ND | 0.2000 | %v/v | NC | 20 |
| **Methane** | 2.475 | **2.486** | 0.2000 | %v/v | 0 | 20 |
| **Nitrogen** | 90.88 | **90.49** | 10.00 | %v/v | 0 | 20 |

Legend

**NC:** Not Calculated

**ND:** Not Detected

**RL:** Reporting Limit

**RPD:** Relative Percent Difference

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

| | | | | | |
|---|---|---|---|---|---|
| **Field ID:** | SVP-52-8 | **Diln Fac:** | 2.300 | **Prep:** | METHOD |
| **Type:** | SDUP | **Batch#:** | 341956 | **Analysis:** | ASTM D1946 |
| **MSS Lab ID:** | 509527-020 | **Sampled:** | 05/31/24 | **Analyst:** | JSA |
| **Lab ID:** | QC1158639 | **Received:** | 06/04/24 | | |
| **Matrix:** | Air | **Analyzed:** | 06/05/24 | | |

| QC1158639 Analyte | MSS Result | Result | RL | Units | RPD | Lim |
|---|---|---|---|---|---|---|
| Helium | <0.2300 | ND | 0.2300 | %v/v | NC | 20 |
| Carbon Monoxide | <0.2300 | ND | 0.2300 | %v/v | NC | 20 |
| **Carbon Dioxide** | 1.147 | **1.169** | 0.2300 | %v/v | 2 | 20 |
| **Oxygen** | 19.29 | **19.55** | 0.2300 | %v/v | 1 | 20 |
| Methane | <0.2300 | ND | 0.2300 | %v/v | NC | 20 |
| **Nitrogen** | 76.52 | **77.39** | 11.50 | %v/v | 1 | 20 |

Legend

**NC:** Not Calculated

**ND:** Not Detected

**RL:** Reporting Limit

**RPD:** Relative Percent Difference

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 5065A3 **Project#:** 1364.0040S000

**Client:** Romxri ssoc/atl s **Location:** i B&IrFomnd2y

**Type:** BS **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1158636 **Batch#:** 49A0 5 **Analysis:** i STMrD169

**Matrix:** i /2 **Analyzed:** 0 JD JA9 **Analyst:** eSi

| QC1158979 Analyte | Spiked | Result | %REC | Limits | Units |
|---|---|---|---|---|---|
| Hl um7 | 10.00 | 10.30 | 103 | 85-115 | %vJv |
| Ca2bonrMonox/dl | 5.000 | 9.854 | 63 | 85-115 | %vJv |
| Ca2bonrD/ox/dl | 5.000 | 9.496 | 83 | 85-115 | %vJv |
| Oxygl n | 4.500 | 4.595 | 101 | 85-115 | %vJv |
| Ml thanl | 5.000 | 9.840 | 63 | 85-115 | %vJv |
| N/t2ogl n | 5.000 | 5.4 A | 103 | 85-115 | %vJv |

**Type:** BSD **Diln Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC1158680 **Batch#:** 49A0 5 **Analysis:** i STMrD169

**Matrix:** i /2 **Analyzed:** 0 JD JA9 **Analyst:** eSi

| QC1158980 Analyte | Spiked | Result | %REC | Limits | Units | RPD | Lim |
|---|---|---|---|---|---|---|---|
| Hl um7 | 10.00 | 10. 4 | 10 | 85-115 | %vJv | 1 | 10 |
| Ca2bonrMonox/dl | 5.000 | 9.600 | 68 | 85-115 | %vJv | 1 | 10 |
| Ca2bonrD/ox/dl | 5.000 | 9.493 | 83 | 85-115 | %vJv | 0 | 10 |
| Oxygl n | 4.500 | 4.540 | 101 | 85-115 | %vJv | 0 | 10 |
| Ml thanl | 5.000 | 9.801 | 6 | 85-115 | %vJv | 1 | 10 |
| N/t2ogl n | 5.000 | 5.406 | 10 | 85-115 | %vJv | 1 | 10 |

LI gl nd

**RPD:** Rl uat/vl rPl 2:l nt
D/ffl 2l ncl

# Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 20A23 **Project#:** 6 A480040S000

**Client:** c oux59f f ot ialLef **Location:** 9s B&fl oundrF

| | | | | | |
|---|---|---|---|---|---|
| **Field ID:** | SVP-32-2 | **Diln Fac:** | 38 00 | **Prep:** | METHOD |
| **Type:** | SDUP | **Batch#:** | 4. 3012 | **Analysis:** | 9STM5D6A. 1 |
| **MSS Lab ID:** | 20A23 -036 | **Sampled:** | 017047 3. | **Analyst:** | / S9 |
| **Lab ID:** | J Q662CAC3 | **Received:** | 017 0. 73. | | |
| **Matrix:** | 9ir | **Analyzed:** | 017017 3. | | |

| QC1158982 Analyte | MSS Result | Result | RL | Units | RPD | Lim |
|---|---|---|---|---|---|---|
| Helium | <083. 00 | ND | 083. 00 | %v7v | NQ | 30 |
| Qarbon5Monoxide | <083. 00 | ND | 083. 00 | %v7v | NQ | 30 |
| **Carbon Dioxide** | 480 1 | **3.081** | 083. 00 | %v7v | 0 | 30 |
| **Oxygen** | 618 1 | **16.41** | 083. 00 | %v7v | 0 | 30 |
| **Methane** | 08 CC3 | **0.4820** | 083. 00 | %v7v | 6 | 30 |
| **Nitrogen** | . 8l. | **74.45** | 6380 0 | %v7v | 0 | 30 |

yegend

**NC:** Nol5Qalt ulaLed

**ND:** Nol5Delet Led

**RL:** c eRorLing5yimiL

**RPD:** c elaLive5Pert enL Dipperent e

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-41-8 **Diln Fac:** 2.000 **Analyzed:** 06/07/24 12:02
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-001 **Sampled:** 05/30/24 18:31 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-001 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **1.6** | 0.050 | ppmv | **6.5** | 0.20 | mg/m3 |

**Field ID:** SVP-41-5 **Diln Fac:** 2.000 **Analyzed:** 06/07/24 12:47
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-002 **Sampled:** 05/30/24 12:02 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-002 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **1.1** | 0.050 | ppmv | **4.3** | 0.20 | mg/m3 |

**Field ID:** SVP-45-5 **Diln Fac:** 2.200 **Analyzed:** 06/07/24 13:18
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-003 **Sampled:** 05/30/24 12:58 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-003 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **4.7** | 0.055 | ppmv | **19** | 0.22 | mg/m3 |

**Field ID:** SVP-53-5 **Diln Fac:** 2.000 **Analyzed:** 06/07/24 19:13
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-004 **Sampled:** 05/30/24 14:18 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-004 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **32** | 0.050 | ppmv | **130** | 0.20 | mg/m3 |

**Field ID:** SVP-53-8 **Diln Fac:** 2.200 **Analyzed:** 06/07/24 13:49
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-005 **Sampled:** 05/30/24 15:52 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-005 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **6.2** | 0.055 | ppmv | **25** | 0.22 | mg/m3 |

**Field ID:** SVP-06-5 **Diln Fac:** 2.100 **Analyzed:** 06/07/24 14:20
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-006 **Sampled:** 05/31/24 09:55 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-006 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **2.0** | 0.053 | ppmv | **8.3** | 0.21 | mg/m3 |

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-06-8 **Diln Fac:** 2.000 **Analyzed:** 06/07/24 14:53
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-007 **Sampled:** 05/31/24 10:42 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-007 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **2.0** | 0.050 | ppmv | **8.2** | 0.20 | mg/m3 |

**Field ID:** SVP-25-8 **Diln Fac:** 2.100 **Analyzed:** 06/07/24 15:24
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-008 **Sampled:** 05/31/24 16:50 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-008 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **3.4** | 0.053 | ppmv | **14** | 0.21 | mg/m3 |

**Field ID:** SVP-36-5 **Diln Fac:** 120.0 **Analyzed:** 06/07/24 13:43
**Type:** SAMPLE **Batch#:** 342171 **Prep:**
**Lab ID:** 509527-009 **Sampled:** 05/31/24 15:48 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-009 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **480** | 3.0 | ppmv | **2,000** | 12 | mg/m3 |

**Field ID:** SVP-13-8 **Diln Fac:** 2.400 **Analyzed:** 06/07/24 15:55
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-010 **Sampled:** 06/03/24 13:55 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-010 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **2.8** | 0.060 | ppmv | **11** | 0.25 | mg/m3 |

**Field ID:** SVP-10-8 **Diln Fac:** 230.0 **Analyzed:** 06/07/24 17:40
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-011 **Sampled:** 06/03/24 11:53 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-011 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **570** | 5.8 | ppmv | **2,300** | 24 | mg/m3 |

**Field ID:** SVP-10-5 **Diln Fac:** 1.700 **Analyzed:** 06/07/24 16:26
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-012 **Sampled:** 06/03/24 10:21 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-012 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **0.31** | 0.043 | ppmv | **1.3** | 0.17 | mg/m3 |

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-DUP-01 **Diln Fac:** 1.700 **Analyzed:** 06/07/24 16:57
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-013 **Sampled:** 06/03/24 10:21 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-013 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **0.44** | 0.043 | ppmv | **1.8** | 0.17 | mg/m3 |

**Field ID:** SVP-13-5 **Diln Fac:** 31.50 **Analyzed:** 06/07/24 14:20
**Type:** SAMPLE **Batch#:** 342171 **Prep:**
**Lab ID:** 509527-014 **Sampled:** 06/03/24 11:18 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-014 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **36** | 0.79 | ppmv | **150** | 3.2 | mg/m3 |

**Field ID:** SVP-DUP-02 **Diln Fac:** 31.50 **Analyzed:** 06/07/24 14:46
**Type:** SAMPLE **Batch#:** 342171 **Prep:**
**Lab ID:** 509527-015 **Sampled:** 06/03/24 11:18 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-015 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **36** | 0.79 | ppmv | **150** | 3.2 | mg/m3 |

**Field ID:** SVP-62-4 **Diln Fac:** 2.400 **Analyzed:** 06/07/24 18:11
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-016 **Sampled:** 06/03/24 13:15 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-016 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **27** | 0.060 | ppmv | **110** | 0.25 | mg/m3 |

**Field ID:** SVP-DUP-03 **Diln Fac:** 24.00 **Analyzed:** 06/07/24 21:24
**Type:** SAMPLE **Batch#:** 342171 **Prep:**
**Lab ID:** 509527-017 **Sampled:** 06/03/24 13:15 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-017 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **26** | 0.60 | ppmv | **110** | 2.5 | mg/m3 |

**Field ID:** SVP-57-5 **Diln Fac:** 4.600 **Analyzed:** 06/07/24 19:42
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-018 **Sampled:** 06/03/24 14:32 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-018 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **43** | 0.12 | ppmv | **170** | 0.47 | mg/m3 |

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M

**Lab #:** 509527 **Project#:** 1793.0030S000
**Client:** Roux Associates **Location:** AB&I Foundry

**Field ID:** SVP-32-8 **Diln Fac:** 2.000 **Analyzed:** 06/07/24 18:42
**Type:** SAMPLE **Batch#:** 342168 **Prep:**
**Lab ID:** 509527-019 **Sampled:** 05/31/24 11:56 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-019 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **5.3** | 0.050 | ppmv | **22** | 0.20 | mg/m3 |

**Field ID:** SVP-52-8 **Diln Fac:** 2.300 **Analyzed:** 06/09/24 02:33
**Type:** SAMPLE **Batch#:** 342274 **Prep:**
**Lab ID:** 509527-020 **Sampled:** 05/31/24 15:36 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-020 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **0.95** | 0.058 | ppmv | **3.9** | 0.24 | mg/m3 |

**Field ID:** SVP-25-5 **Diln Fac:** 24.00 **Analyzed:** 06/07/24 21:51
**Type:** SAMPLE **Batch#:** 342171 **Prep:**
**Lab ID:** 509527-021 **Sampled:** 06/03/24 15:47 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-021 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **45** | 0.60 | ppmv | **180** | 2.5 | mg/m3 |

**Field ID:** SVP-36-8 **Diln Fac:** 26.00 **Analyzed:** 06/07/24 22:17
**Type:** SAMPLE **Batch#:** 342171 **Prep:**
**Lab ID:** 509527-022 **Sampled:** 06/03/24 16:32 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 06/04/24 **Analyst:** JSA

| 509527-022 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH Gasoline** | **220** | 0.65 | ppmv | **890** | 2.7 | mg/m3 |

**Type:** BLANK **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC1159365 **Batch#:** 342168 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 06/07/24 11:26 **Analyst:** JSA

| QC1159365 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| TPH Gasoline | ND | 0.025 | ppmv | ND | 0.10 | mg/m3 |

**Type:** BLANK **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC1159372 **Batch#:** 342171 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 06/07/24 11:14 **Analyst:** JSA

| QC1159372 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| TPH Gasoline | ND | 0.025 | ppmv | ND | 0.10 | mg/m3 |

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Type:** BLANK **Diln Fac:** 1.000 **Prep:**

**Lab ID:** QC1159737 **Batch#:** 342274 **Analysis:** EPA TO-3M

**Matrix:** Air **Analyzed:** 06/08/24 11:55 **Analyst:** JSA

| QC1159737 Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| TPH Gasoline | ND | 0.025 | ppmv | ND | 0.10 | mg/m3 |

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M: Batch QC

**Lab #:** 509527 **Project#:** 1793.0030S000

**Client:** Roux Associates **Location:** AB&I Foundry

**Type:** BS **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC1159363 **Batch#:** 342168 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 06/07/24 09:57 **Analyst:** JSA

| QC1159363 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| TPH Gasoline | 2.500 | 2.334 | ppmv | 93 | 70-130 |

**Type:** BS **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC1159370 **Batch#:** 342171 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 06/07/24 09:46 **Analyst:** JSA

| QC1159370 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| TPH Gasoline | 2.500 | 2.027 | ppmv | 81 | 70-130 |

**Type:** BS **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC1159735 **Batch#:** 342274 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 06/08/24 10:26 **Analyst:** JSA

| QC1159735 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| TPH Gasoline | 2.500 | 2.353 | ppmv | 94 | 70-130 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC1159364 **Batch#:** 342168 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 06/07/24 10:28 **Analyst:** JSA

| QC1159364 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| TPH Gasoline | 2.500 | 2.321 | ppmv | 93 | 70-130 | 1 | 25 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC1159371 **Batch#:** 342171 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 06/07/24 10:16 **Analyst:** JSA

| QC1159371 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| TPH Gasoline | 2.500 | 2.270 | ppmv | 91 | 70-130 | 11 | 25 |

**Type:** BSD **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC1159736 **Batch#:** 342274 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 06/08/24 10:56 **Analyst:** JSA

| QC1159736 Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| TPH Gasoline | 2.500 | 2.344 | ppmv | 94 | 70-130 | 0 | 25 |

Legend

**RPD:** Relative Percent Difference

**Result (V):** Result in volume units

| | |
|---|---|
| Date: | September 16, 2024 |
| Project Name: | American Brass & Iron (AB&I) Foundry |
| Laboratory: | Pace Analytical Laboratory |
| Sample Delivery Groups (SDG): | L1738627, L1739342, L1739664, L1740224, L1740636, L1740641, L1740668, L1740925, L1741416, L1741491, L1741921, L1742685, L1745043, L1753333, L1754750, L1754913, and L1758292. |
| Sample Media: | Soil and Groundwater |
| Samples: | All sample IDs in the laboratory reports (SDGs) |

Data review was performed for the sample delivery groups (SDGs) generated by Pace Analytical Services, LLC for samples collected at American Brass & Iron (AB&I) Foundry at 7825 San Leandro Street in Oakland, CA in April 2024.

Data validation was done in general accordance with Department of Defense (DOD)[1,2] and United States Environmental Protection Agency (USEPA)[3,4] validation documents and included a review of the following items:

- Data Deliverable Completeness
- Laboratory Case Narratives
- Chain of Custody Documentation
- Sample Receipt/Holding Time
- Limit of Quantification
- Control Samples
  - Method Blanks, Equipment and Trip Blanks (EB and TB)
  - Lab Control Samples/Duplicate (LCS/LCSD)
  - Matrix Spike and Matrix Spike Duplicate (MS/MSD)
  - Field duplicate Samples

The items above that have issues potentially affecting data usability are discussed below for each laboratory SDG and are summarized for all SDGs at the end of this data validation report. For analytes not reported, validation issues are not discussed.

## OVERALL ASSESSMENT

### Data Deliverable Completeness

Complete data package deliverables were provided by the laboratory, which included reporting forms (sample log-in, quality control summaries, definition of terms and qualifiers, etc.) necessary to validate the reported analytical results. The laboratory followed adequate corrective action processes, and most anomalies were discussed in case narratives, and other anomalies are discussed later in this report. The laboratory submitted all required deliverables. Sample results and related quality control data were

1 USDOD, Environmental Data Quality Workgroup. *Data Validation Guidelines Module 5: Data Validation Procedure for Metals by ICP-MS.* 11/09/2022.
2 *USDOD, Environmental Data Quality Workgroup. Data Validation Guidelines Module 4: Data Validation Procedure for Organic Analysis by GC.*
3 USEPA. *National Functional Guidelines for Inorganic Superfund Method Data Review.* EPA 542-R-20-006. November 2020.
4 USEPA. *National Functional Guidelines for Organic Superfund Method Data Review.* EPA 540-R-20-005.

received as portable document format (pdf) files and electronic data deliverable files (e.g., excel). Electronic data were verified against each SDG; no data deliverable completeness issues were identified.

**Laboratory Case Narratives**

The SDGs include laboratory case narratives that confirm all samples were delivered to the laboratory at the correct temperature, in the proper container, with the appropriate preservatives, and address issues encountered during the analytical process. The case narratives discuss the issue of high concentrations. Specifically, the narratives explain the corrective actions taken, including the appropriate dilution steps for samples and considerations for the limit of quantification (LOQ). All necessary adjustments were accounted for to ensure accurate results.

**Chain of Custody Documentation**

Sample identification (ID) numbers and requested analyses listed on the chain-of-custody record are consistent with the sample IDs and analyses reported in the analytical laboratory reports. However, there are discrepancies in some SDGs as follows:

1- For L1739664, one sample, TB-052224, is mistakenly reported twice on the chain of custody, indicating an error in the documentation.

2- For L1740925, one sample, EB-052824, is mistakenly reported twice on the chain of custody, indicating an error in the documentation.

3- For L1741921, several samples are reported in the SDG but are not listed on the chain of custody. These samples are: G/BS-H1-1.0, G/BS-H1-2.0, G/BS-H1-3.0, G/BS-H1-4.0, and G/BS-H1-5.0

**Sample Receipt/Holding Times**

All samples were received intact and within a temperature range of 2° to 6° Celsius. Most samples—except which are listed in Attachment A—were analyzed within the required holding times for the specified analytical methods. The samples listed in Attachment A analyzed by EPA methods 8015 and 8270C exceeded the recommended holding times by one to five days. The concentrations of the analytes for the affected samples should be qualified with noted low bias.

**Limits of Quantitation**

All LOQs are below the project environmental screening levels.

**Quality Control Samples**

1- For **L1740641:**

   a. There was a lower spike recovery rate for the MS/MSD samples for mercury in laboratory batch WG2294965. The associated field samples did not have detected concentrations of mercury. The relative percent differences (RPDs) for the MS/MSD samples within acceptable limits.

2- For **L1740925:**

   a. The spike recovery rate of the LCS/LCSD samples was within the recommended limits. The RPDs for some LCS/LCSD analytes were greater than 20%, however, the associated analytes in the field samples were not detected.

   b. There was a lower spike recovery rate for the MS/MSD samples for mercury in laboratory batches WG2294965 and WG2295935. The associated field samples did not have detected concentrations of mercury in laboratory batch WG2294965 and had detected concentration in laboratory batch WG2295935. Additionally, spike recovery rate of benzidine and hexachlorocyclopentadiene (HCCPD) was very low (<10%) in laboratory

batch WG2299140. The associated field samples concentrations were less than the reporting limit (not detected).

The MS/MSD's RPD for mercury (60.20%) and benzidine (200%) were higher than the acceptable range (20%).

c. The RPDs for the hydrocarbons in the table below were greater than 20%. The concentrations of hydrocarbons were less than five times (5x) the LOQ, and the absolute difference between primary and duplicate samples is less than the LOQ.[5]

| Analyte | P-06 | DUP-3 | RPD (%) | LOQ |
|---|---|---|---|---|
| C22-C32 Hydrocarbons | 268 | 333 | 21.6 | 100 |
| C32-C40 Hydrocarbons | 100 | 199 | 66.2 | 100 |

**Notes:**
All concentrations in micrograms per liter.
% = percent
LOQ = Limit of quantitation
RPD = Relative percent difference

3- For **L1738627**

a. The LCS/LCSD spike recovery rate was higher than the recommended limit, and the associated field samples were not detected. The RPD was higher than the recommended limit (20%), however, concentrations of these analytes in associated field samples were not detected.

b. The MS/MSD spike recovery rates for antimony (in laboratory batches WG2291334 and WG2293711), nickel (WG2291334), and copper (WG2293711) were lower than the recommended limits (80%). For copper (WG2291334), the spike recovery rate was higher than the recommended limit. In laboratory batch WG2294807, the analytes 2,4-dinitrophenol, di-n-octyl phthalate, HCCPD, and n-nitrosodimethylamine, had spike recovery rates lower than 10%. Concentrations of these analytes in associated field samples were not detected.

The RPD of lead (in the laboratory batches WG2291334 and WG2293711) and HCCPD had a higher value than the recommended limit (20%). As noted, HCCPD failed in both MS/MSD spike recovery rate and RPD.

| LCS/LCSD | | | MS/MSD | | |
|---|---|---|---|---|---|
| **Matrix** | **Analyte** | **RPD (%)** | **Matrix** | **Analyte** | **RPD (%)** |
| Soil | Hexachloro-1,3-butadiene | 25.8 | Soil | Lead (WG2291334) | 26.3 |
| Soil | Naphthalene | 24.5 | Soil | HCCPD | 52 |
| Water | n-Butylbenzene | 21.2 | Soil | Lead (WG2293711) | 26.1 |

**Notes:**
% = percent
LCS/LCSD = Laboratory control spike/laboratory control spike duplicate
MS/MSD = Matrix spike/matrix spike duplicate
RPD = Relative percent difference

[5] In accordance with the National Functional Guidelines for both inorganic and organic analytes, duplicate sample concentrations limits may not apply when the sample and duplicate concentrations are less than 5x the Quantitation Limit (QL) due to high statistical variance as concentrations near the LOQ.

4- For **L1739342**

a. The field EB had a concentration of barium (5.29 µg/L).

b. The LCS/LCSD spike recovery rates were lower than the recommended limit for 2-butanone (MEK; in laboratory batches WG2293082 and WG2295400), acetone (WG2293082 and WG2295400), trichlorofluoromethane (WG2293082), 1,2-dichloropropane (WG2293082), 1,2,3-trimethylbenzene (WG2295165), 1,2,4-trimethylbenzene (WG2295165), and 1,3,5-trimethylbenzene (WG2295165). Concentrations of these analytes in associated field samples were not detected. The RPDs for LCS/LCSD for acetone and hexachloro-1,3-butadiene, as listed in the table below, were higher than the recommended limit (20%). Concentrations of these analytes in associated field samples were not detected.

c. The MS/MSD spike recovery rate of barium (in laboratory batch WG2295058), nickel (in laboratory batches WG2295058; WG2295060), antimony (in laboratory batch WG2295060), and zinc (in laboratory batch WG2295060) exceeded the recommended RPD limit (20%). The laboratory batch WG2299534 with the hydrocarbons C12-C22 and C22-C32 and the laboratory batch WG2295239 with benzidine, HCCPD, and phenol, had spike recovery rates lower than 10%.

The RPDs for several analytes (metals in laboratory batch WG2295060, VOC in WG2295242, and hydrocarbons in WG2295239) were greater than the RPD limits (table below). For these metals, the original sample concentrations were greater than 4-times (4x) the spiked concentration and the MS/MSD limits do not apply. [6]

| LCS/LCSD | | | MS/MSD | | |
|---|---|---|---|---|---|
| **Matrix** | **Analyte** | **RPD (%)** | **Matrix** | **Analyte** | **RPD (%)** |
| Soil | Acetone | 23.2 | Soil | Arsenic | 23.9 |
| Soil | Hexchloro-1,3-butadiene | 24.1 | Soil | Barium | 21.7 |
| | | | Soil | Chromium | 41.8 |
| | | | Soil | Nickel | 27.6 |
| | | | Soil | 2,4-Dinitrophenol | 42.8 |
| | | | Soil | 4-Chloro-3-methylphenol | 64.3 |
| | | | Soil | Phenol | 200 |
| | | | Soil | C12-C22 Hydrocarbons | 26.3 |
| | | | Soil | C22-C32 Hydrocarbons | 22.5 |

**Notes:**
% = percent
LCS/LCSD = Laboratory control spike/laboratory control spike duplicate
MS/MSD = Matrix spike/matrix spike duplicate
RPD = Relative percent difference

5- For **L1739664**

a. The LCS/LCSD spike recovery rate was lower than the recommended limit for 1,2,4-trimethylbenzene (in laboratory batch WG2296712) and 1,3,5-trimethylbenzene (in laboratory batch WG2296712). The RPDs in laboratory batch WG2294587 for the analytes list below were higher than 20%.

b. In laboratory batch WG2298678, the MS/MSD spike recovery rate of HCCPD and benzidine was lower than 10%. The RPDs for the listed analytes in the table below were higher than the recommended limit (20%).

[6] USDOD, Environmental Data Quality Workgroup. *Data Validation Guidelines Module 5: Data Validation Procedure for Metals by ICP-MS*

| LCS/LCSD | | | MS/MSD | | |
|---|---|---|---|---|---|
| **Matrix** | **Analyte** | **RPD (%)** | **Matrix** | **Analyte** | **RPD (%)** |
| Soil | Acetone | 69.5 | Soil | Benzo(a)anthracene | 32.7 |
| Soil | Bromomethane | 22.4 | Soil | Benzo(a)pyrene | 37.6 |
| Soil | Dichlorodifluoromethane | 26.3 | Soil | Benzo(b)fluoranthene | 44.1 |
| Soil | Hexachloro-1,3-butadiene | 22.1 | Soil | Benzo(g,h,i)perylene | 35.2 |
| Soil | Vinyl chloride | 20.2 | Soil | Chrysene | 38.7 |
| | | | Soil | HCCPD | 73.7 |
| | | | Soil | Indeno(1,2,3-cd)pyrene | 33.5 |
| | | | Soil | Pyrene | 32.3 |

**Notes:**
HCCPD
% = percent
HCCPD = Hexachlorocyclopentadiene
LCS/LCSD = Laboratory control spike/laboratory control spike duplicate
MS/MSD = Matrix spike/matrix spike duplicate
RPD = Relative percent difference

6- For **L1740224**

a. The LCS/LCSD's RPD for 2,2-Dichloropropane was greater than 20%.

b. MS/MSD spike recovery rate for mercury in laboratory batch WG2293345 was lower than 8%. In laboratory batch WG2296790, the analytes 2,4-dinitrophenol, benzidine, hexachlorobenzene, and HCCPD had spike recovery rates lower than 10%. The RPDs for the MS/MSD for mercury and pyrene were higher than 20%.

c. The surrogate recovery rate of o-Terphenyl in laboratory batch WG2300018 was greater than the recommended limit.

d. The RPDs of groundwater duplicates for mercury, chromium, and zinc (table below) were greater than 20%, and the sample concentrations were higher than 5x LOQ[7]. The RPD of cadmium and nickel (dissolved) in the table below was also higher than 20%, however, the concentrations were lower than 5x LOQ and the absolute difference was less than LOQ.

| Analyte | P-10 (µg/L) | DUP-1 (µg/L) | RPD (%) | LOQ |
|---|---|---|---|---|
| Mercury | 1.32 | 1.68 | 24 | 0.2 |
| Cadmium | 2.22 | 2.74 | 20.97 | 1.0 |
| Chromium | 50.7 | 37.8 | 29.15 | 2.0 |
| Nickel, Dissolved | 5.66 | 4.3 | 27.31 | 2.0 |
| Zinc, Total | 223 | 182 | 20.25 | 25 |

**Notes:**
Yellow highlight = RPD and LOQ values exceed acceptable limits. Values should be considered estimates.
µg/L = micrograms per liter
% = percent
LOQ = Limit of quantitation
RPD = Relative percent difference

7- For **L1740636**

a. The method blank in this laboratory batch WG2296309 had a concentration of barium, dissolved.

b. The LCS/LCSD RPDs for the analytes noted below were greater than 20%.

[7] In accordance with the National Functional Guidelines for both inorganic and organic analytes, duplicate sample concentrations limits may not apply when the sample and duplicate concentrations are less than 5x the Quantitation Limit (QL) due to high statistical variance as concentrations near the LOQ.

| LCS/LCSD | | |
|---|---|---|
| **Matrix** | **Analyte** | **RPD (%)** |
| Water | 1,1,1,2-Tetrachloroethane | 23.8 |
| Water | 1,1,1-Trichloroethane | 21.4 |
| Water | 1,1,2-Trichloroethane | 25.6 |
| Water | 1,1,2-Trichlorotrifluoroethane | 25 |
| Water | 1,2,4-Trichlorobenzene | 20.2 |
| Water | 2,2-Dichloropropane | 30.5 |
| Water | Acetone | 20.7 |
| Water | Benzene | 21.4 |
| Water | Bromoform | 24.4 |
| Water | Bromomethane | 37 |
| Water | Carbon tetrachloride | 21.2 |
| Water | Chloroethane | 42.4 |
| Water | Cis-1,2-Dichloroethene | 22.5 |
| Water | Di-isopropyl ether | 20.9 |
| Water | Dichlorodifluoromethane | 22.4 |
| Water | Isopropylbenzene | 23.7 |
| Water | Naphthalene | 20.4 |
| Water | p-Isopropyltoluene | 21.7 |
| Water | Sec-Butylbenzene | 21 |
| Water | Toluene | 22.6 |
| Water | Trans-1-2-Dichloroethene | 20.2 |
| Water | Trichlorofluoromethane | 23.8 |
| Water | Vinyl chloride | 20.7 |
| Water | Xylenes, total | 20.7 |

**Notes:**
% = percent
LCS/LCSD = Laboratory control spike/laboratory control spike duplicate
RPD = Relative percent difference

c. The surrogate recovery rate of o-Terphenyl in the laboratory batch WG2295250 was lower than the recommended limit.

d. There were 77 analytes for the duplicate pair GW-2-2 and DUP-2 that had RPDs greater than 20%. Eleven of the RPDs were lower than 100% and the remainder were greater than 100%.

8- For **L1741416**

a. The field EB had a detected concentration of barium.

b. LCS/LCSD spike recovery rate was high for a few analytes and the associated field samples were not detected.

c. Antimony in laboratory batch WG2305335 had a higher spike recovery rate than the recommended limit. The spike recovery rate of hydrocarbons in laboratory batch WG2303717 was higher than the recommended limit, and the original sample had a concentration greater than the spiked concentration (i.e., 4x spiked concentration).[8] In laboratory batch WG2303704, the analytes 2,2-oxybis(1-chloropropane), 2,4-dinitrophenol, bis(2-chloroethyl)ether, bis(2-ethylhexyl)phthalate, HCCPD, n-nitrosodi-n-propylamine, and n-nitrosodimethylamine had lower spike recovery rates than the recommended limit. In the same batch, analytes 2,4-dimethylphenol, 2-nitrophenol, benzidine, hexachloroethane, isophorone, and pyrene had higher spike recovery rates than the recommended limit.

[8] In accordance with the National Functional Guidelines for organic analytes, spike recovery limits do not apply when the sample concentration before being spiked is greater than 4x spike concentration.

RPDs of the analytes listed below were higher than 20%. 2,2-oxybis(1-chloropropane), bis(2-chloroethyl)ether, and n-nitrosodi-n-propylamine did not meet the criteria for both MS/MSD spike recovery rate and the RPD.

| MS/MSD | | |
|---|---|---|
| **Matrix** | **Analyte** | **RPD (%)** |
| Soil | Lead | 28.6 |
| Soil | 2,2-Oxybis(1-Chloropropane) | 200 |
| Soil | 2,4-Dichlorophenol | 47.9 |
| Soil | Bis(2-chloroethyl)ether | 200 |
| Soil | n-Nitrosodi-n-propylamine | 200 |

**Notes:**
% = percent
MS/MSD = Matrix spike/matrix spike duplicate
RPD = Relative percent difference

9- For **L1741921**

a. The spike recovery rates and RPDs of the LCS/LCSD were higher for a few analytes, and the associated samples were not detected.

b. In laboratory batch WG2299939, the MS/MSD's spike recovery rates for the metals antimony, lead, zinc, and copper were lower than the recommended limit (80%). In laboratory batch WG2299945, the spike recovery rates of antimony and zinc were higher than the recommended limit. For volatile organic compounds, the spike recovery rates for benzidine (WG2303251), HCCPD (WG2304128), and 2,4-dinitrophenol (WG2304128), were lower than 10%. The RPDs for the analytes listed below were greater than 20%.

| LCS/LCSD | | | MS/MSD | | |
|---|---|---|---|---|---|
| **Matrix** | **Analyte** | **RPD (%)** | **Matrix** | **Analyte** | **RPD (%)** |
| Soil | 1,1,2-Trichlorotrifluoroethane | 24.3 | Soil | Arsenic | 46 |
| Soil | 2-Butanone (MEK) | 29.6 | Soil | Barium | 50.2 |
| Soil | Acetone | 41.1 | Soil | Copper | 31.1 |
| Soil | 1,2,4-Trichlorobenzene | 20.6 | Soil | Lead | 35.7 |
| Soil | Acetone | 37.5 | Soil | Zinc | 47.6 |
| Soil | Acrylonitrile | 20.4 | Soil | Lead | 24.7 |
| Soil | Naphthalene | 23.7 | Soil | Zinc | 22.1 |
| | | | Soil | C22-C32 Hydrocarbons | 27.2 |
| | | | Soil | Benzidine | 200 |
| | | | Soil | 2,4-Dinitrophenol | 200 |
| | | | Soil | HCCPD | 40.3 |

**Notes:**
% = percent
HCCPD = Hexachlorocyclopentadiene
LCS/LCSD = Laboratory control spike/laboratory control spike duplicate
MS/MSD = Matrix spike/matrix spike duplicate
RPD = Relative percent difference

**Overall Assessment**

**a. Method Blanks, EBs, and TBs**

All the SDGs are considered free of contamination. Even though a few laboratory batches in three SDGs (L1739342, L1740636, and L1741416) had a concentration of barium in their respective EB or method blank samples, this background contamination would not affect the reliability of data due to the concentrations of barium of associate field samples was higher than 5 times the concentrations observed in the EB and method blank samples.

No issues were observed with TB samples.

**b. LCS/LCSD**

The LCS/LCSD recovery rate did not meet the recommended limit for some analytes in certain laboratory batches reported in the following SDGs: L1738627, L1739342, L1739664, L1740925, L1741416, L1741921.

i. When the recovery rate was high (for SDGs: L1738627, L1741416, and L1741921), the associated non-detect field samples can be accepted.
ii. When the recovery rate was low (for SDGs: L1739342 and L1739664), the detected concentrations of associated field samples for specific analytes should be noted as low bias, while no detected concentrations of associated field samples and for specific analytes and laboratory batch numbers are recommended to be excluded from the data set.

The RPDs for LCS/LCSD was higher than 20% for some analytes in certain laboratory batches reported in the following SDGs: L1740925, L1738627, L1739342, L1739664, L1740224, L1740636, and L1741921. The associated field samples having detected concentration should be estimated (J), while the associated field samples with no detected concentrations should be accepted.

**c. MS/MSD**

MS/MSD recovery rate did not meet the recommended limit for some analytes in certain laboratory batches reported in the following SDGs: L1740641, L1740925, L1738627, L1739342, L1739664, L1740224, L1741416, and L1741921.

i. Results are acceptable when the MS/MSD recovery rate is high and concentrations were not detected.
ii. When the recovery rate was high, the associated field samples should be estimated with high bias (J+) for detected concentrations.
iii. Results of non-detect when the MS/MSD recovery rate was low should be estimated biased low (J-).
iv. When the MS/MSD recovery rate was low, the associated field samples should be estimated with a low bias (J-).

The RPDs for MS/MSDs were higher than 20% for some analytes in laboratory batches reported in the following SDGs: L1740925, L1738627, L1739342, L1739664, L1740224, L1741416, and L1741921. The associated field samples with detectable concentration should be estimated (J), while the associated field samples with no detectable concentrations should be accepted. However, some analytes did not meet the recommended limit for both spike recovery rate and RPD, and therefore, these analytes should be estimated low bias (J-). There is no action required for some analytes because the original samples concentrations were higher than four times the spiked concentrations[9].

**d. Surrogate recovery rate**

Surrogate recovery rates did not meet the guideline limit for o-Terphenyl in laboratory batches reported for the following two SDGs: L1739664 and L1740636.

i. Because the recovery rate was high in SDG L1739664, the field associated samples should be estimated with a high bias (J+).
ii. In this SDG L1740636, the recovery rate was low and therefore, the associated field samples should be estimated with low bias for detected concentrations. Non-detect values should be estimated (J).

[9] USDOD, Environmental Data Quality Workgroup. *Data Validation Guidelines Module 5: Data Validation Procedure for Metals by ICP-MS.* 11/09/2022.

**e. Field duplicate**

Three groundwater field duplicates were evaluated associated with SDGs: L1740925, L1740224, and L1740636.

i. For L1740925, the limits for RPDs do not apply based on EPA guidelines[10] since the concentration of hydrocarbons was less than LOQ.

ii. For L1740224, the associated samples of mercury, chromium, and zinc should be estimated (J) because the concentration of samples was higher than LOQ. The associated samples of cadmium and nickel (dissolved) should be accepted because the concentration were lower than five times the LOQ and the absolute difference was lower than LOQ.

iii. For L1740636, the high number of analytes with RPDs greater than the acceptable limits suggests that there was non-heterogeneity of the groundwater sampled. The high RPDs between the primary and duplicate samples may be a result of high sediment load in the sample effecting the analytes concentrations.

**Definitions of Roux Validation Data Qualifiers**

| Qualifier | Definition |
|---|---|
| J | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.<br><br>For surrogates or TIC, result is an estimate. |
| J- | Result is an estimate. Low biased |
| J+ | Result is an estimate. High biased |
| R | The sample results should be considered rejected and unusable. |

If you have any questions regarding this data validation report, please contact Michael Friedman at 415-967-6000.

Regards,

Michael Friedman, PG
Senior Geologist II

[10] USEPA. *National Functional Guidelines for Organic Superfund Method Data Review*. EPA 540-R-20-005.

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1738627 |
| Samples Received: | 05/21/2024 |
| Project Number: | 1793.00308000 |
| Description: | AB&I Redevelopment |

Report To:

Joshua Osborne
555 12th Street
Suite 250
Oakland, CA 94607

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G-A1-1-1.0 L1738627-01 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 08:12 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:24 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:40 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/04/24 10:31 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2294060 | 1 | 05/28/24 04:37 | 05/28/24 11:55 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 10 | 05/29/24 22:33 | 05/31/24 04:26 | DSH | Mt. Juliet, TN |

## G-A1-1-2.0 L1738627-02 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 08:22 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:27 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:42 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 08:22 | 05/27/24 22:38 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298713 | 1 | 06/05/24 11:42 | 06/06/24 00:43 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 10 | 05/29/24 22:33 | 05/31/24 02:48 | DSH | Mt. Juliet, TN |

## G-A1-1-3.0 L1738627-03 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 08:28 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:29 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:43 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 28.5 | 05/20/24 08:28 | 05/26/24 02:22 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1.14 | 05/20/24 08:28 | 05/27/24 22:57 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/31/24 10:13 | JAS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2314453 | 1 | 06/29/24 15:15 | 06/29/24 21:05 | LJD | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 1 | 05/29/24 22:33 | 05/30/24 22:44 | DSH | Mt. Juliet, TN |

## G-A1-1-4.0 L1738627-04 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 08:43 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2302291 | 1 | 06/10/24 16:13 | 06/10/24 16:19 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 27 | 05/20/24 08:43 | 06/02/24 15:23 | JAH | Mt. Juliet, TN |

## G-A1-1-5.0 L1738627-05 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 08:47 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 25 | 05/20/24 08:47 | 05/26/24 02:42 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 08:47 | 05/27/24 23:16 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 18:28 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/BS-A2-1-1.0 L1738627-06 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 09:10 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:32 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:48 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2294060 | 1 | 05/28/24 04:37 | 05/28/24 12:04 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 10 | 05/29/24 22:33 | 05/31/24 05:15 | DSH | Mt. Juliet, TN |

## G/BS-A2-1-2.0 L1738627-07 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 09:18 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:35 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:50 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 09:18 | 05/27/24 23:36 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298713 | 1 | 06/05/24 11:42 | 06/06/24 00:52 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 2 | 05/29/24 22:33 | 05/31/24 02:24 | DSH | Mt. Juliet, TN |

## G/BS-A2-1-3.0 L1738627-08 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 09:25 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:37 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:51 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 25 | 05/20/24 09:25 | 05/26/24 03:01 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 09:25 | 05/27/24 23:55 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/31/24 09:58 | JAS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2314791 | 1 | 07/01/24 17:34 | 07/01/24 22:59 | NWH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 1 | 05/29/24 22:33 | 05/30/24 23:08 | DSH | Mt. Juliet, TN |

## G/BS-A2-1-4.0 L1738627-09 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 09:35 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2302291 | 1 | 06/10/24 16:13 | 06/10/24 16:19 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/20/24 09:35 | 06/02/24 15:46 | JAH | Mt. Juliet, TN |

## G/BS-A2-1-5.0 L1738627-10 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 09:42 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 25 | 05/20/24 09:42 | 05/26/24 03:20 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 09:42 | 05/28/24 00:14 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 17:01 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## UC-A2-1-1.0 L1738627-11 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 13:20 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:40 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:53 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 5 | 05/31/24 15:27 | 06/02/24 11:56 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2294060 | 1 | 05/28/24 04:37 | 05/28/24 12:13 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 2 | 05/29/24 22:33 | 05/31/24 01:35 | DSH | Mt. Juliet, TN |

## UC-A2-1-2.0 L1738627-12 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 13:30 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293517 | 1 | 05/27/24 07:36 | 05/27/24 07:43 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:42 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:55 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 13:30 | 05/28/24 00:33 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298713 | 10 | 06/05/24 11:42 | 06/06/24 01:01 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 10 | 05/29/24 22:33 | 05/31/24 10:32 | DSH | Mt. Juliet, TN |

## UC-A2-1-3.0 L1738627-13 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 13:37 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:50 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:56 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 25 | 05/20/24 13:37 | 05/26/24 03:40 | NCD | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 20 | 05/30/24 06:42 | 05/30/24 20:08 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 10 | 05/29/24 22:33 | 05/31/24 10:56 | DSH | Mt. Juliet, TN |

## UC-A2-1-5.0 L1738627-15 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 14:00 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2291959 | 25 | 05/20/24 14:00 | 05/23/24 14:25 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2292331 | 1 | 05/20/24 14:00 | 05/25/24 23:59 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293785 | 1 | 05/20/24 14:00 | 05/27/24 09:39 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2292509 | 1 | 05/24/24 07:27 | 05/24/24 20:51 | KDB | Mt. Juliet, TN |

## UC-A2-1-10.0 L1738627-17 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 14:22 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2292331 | 1 | 05/20/24 14:22 | 05/26/24 00:18 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293785 | 1 | 05/20/24 14:22 | 05/27/24 09:58 | JBE | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/BS-A3-1-1.0 L1738627-18 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 10:15 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2290825 | 1 | 05/22/24 08:15 | 05/23/24 10:42 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2291334 | 5 | 05/25/24 17:24 | 05/26/24 20:15 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2291058 | 1 | 05/22/24 09:45 | 05/22/24 15:39 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 2 | 05/29/24 22:33 | 05/31/24 00:46 | DSH | Mt. Juliet, TN |

## G/BS-A3-1-2.0 L1738627-19 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 10:25 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2290825 | 1 | 05/22/24 08:15 | 05/23/24 10:45 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2291334 | 1 | 05/25/24 17:24 | 05/26/24 20:10 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2292331 | 1.31 | 05/20/24 10:25 | 05/26/24 00:37 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293785 | 1.31 | 05/20/24 10:25 | 05/27/24 10:18 | JBE | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2315705 | 2 | 07/01/24 17:34 | 07/02/24 18:28 | LTB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 2 | 05/29/24 22:33 | 05/30/24 23:33 | DSH | Mt. Juliet, TN |

## G/BS-A3-1-3.0 L1738627-20 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 10:35 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2290825 | 1 | 05/22/24 08:15 | 05/23/24 10:52 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2291334 | 1 | 05/25/24 17:24 | 05/26/24 20:12 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2291959 | 25 | 05/20/24 10:35 | 05/23/24 14:44 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 10:35 | 05/28/24 00:52 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2292509 | 5 | 05/24/24 07:27 | 05/24/24 21:32 | KDB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 10 | 05/29/24 22:33 | 05/31/24 04:51 | DSH | Mt. Juliet, TN |

## G/BS-A3-1-5.0 L1738627-22 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 10:50 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2291959 | 25 | 05/20/24 10:50 | 05/23/24 15:03 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2292331 | 1 | 05/20/24 10:50 | 05/26/24 00:56 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2292509 | 1 | 05/24/24 07:27 | 05/24/24 20:23 | KDB | Mt. Juliet, TN |

## UC-A3-1-1.0 L1738627-23 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 11:20 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2290825 | 1 | 05/22/24 08:15 | 05/23/24 10:55 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2291334 | 1 | 05/25/24 17:24 | 05/26/24 20:14 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2291058 | 1 | 05/22/24 09:45 | 05/22/24 15:57 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 10 | 05/29/24 22:33 | 05/31/24 06:04 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## UC-A3-1-2.0 L1738627-24 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 11:30 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:52 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:58 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2292331 | 1 | 05/20/24 11:30 | 05/26/24 01:15 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2294060 | 1 | 05/28/24 04:37 | 05/28/24 12:22 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 100 | 05/29/24 22:33 | 05/31/24 11:45 | DSH | Mt. Juliet, TN |

## UC-A3-1-3.0 L1738627-25 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 11:35 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290916 | 1 | 05/22/24 09:22 | 05/22/24 09:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2290825 | 1 | 05/22/24 08:15 | 05/23/24 10:57 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2291331 | 1 | 05/25/24 17:13 | 05/26/24 20:58 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2291959 | 26.8 | 05/20/24 11:35 | 05/23/24 15:23 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2292509 | 40 | 05/24/24 07:27 | 05/24/24 21:46 | KDB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 2 | 05/29/24 22:33 | 05/31/24 02:00 | DSH | Mt. Juliet, TN |

## UC-A3-1-5.0 L1738627-27 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 11:52 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290917 | 1 | 05/22/24 09:10 | 05/22/24 09:20 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2291959 | 30 | 05/20/24 11:52 | 05/23/24 15:42 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2292331 | 1.2 | 05/20/24 11:52 | 05/26/24 01:34 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293785 | 1.2 | 05/20/24 11:52 | 05/27/24 10:37 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2292509 | 1 | 05/24/24 07:27 | 05/24/24 19:42 | KDB | Mt. Juliet, TN |

## UC-A3-1-10.0 L1738627-29 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 12:10 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2290917 | 1 | 05/22/24 09:10 | 05/22/24 09:20 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2292331 | 1 | 05/20/24 12:10 | 05/26/24 01:53 | JHH | Mt. Juliet, TN |

## BS-B1-1-1.0 L1738627-30 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 15:00 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:55 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:00 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2294060 | 1 | 05/28/24 04:37 | 05/28/24 12:31 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 2 | 05/29/24 22:33 | 05/31/24 00:22 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## BS-B1-1-2.0 L1738627-31 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 15:05 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:05 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293709 | 1 | 05/30/24 08:23 | 05/30/24 17:19 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 15:05 | 05/28/24 01:11 | DWR | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 2 | 05/29/24 22:33 | 05/30/24 23:57 | DSH | Mt. Juliet, TN |

## BS-B1-1-3.0 L1738627-32 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 15:10 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293349 | 1 | 05/25/24 13:35 | 05/27/24 13:57 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:01 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 26 | 05/20/24 15:10 | 05/26/24 03:59 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1.04 | 05/20/24 15:10 | 05/28/24 01:30 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 5 | 05/30/24 06:42 | 05/30/24 19:11 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2294807 | 10 | 05/29/24 22:33 | 05/31/24 04:02 | DSH | Mt. Juliet, TN |

## BS-B1-1-5.0 L1738627-34 Solid

Collected by: JA/AV | Collected date/time: 05/20/24 15:22 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 25 | 05/20/24 15:22 | 05/26/24 04:19 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293465 | 1 | 05/20/24 15:22 | 05/28/24 01:49 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 10 | 05/30/24 06:42 | 05/30/24 19:25 | JAS | Mt. Juliet, TN |

## EB-052024 L1738627-35 GW

Collected by: JA/AV | Collected date/time: 05/20/24 15:30 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2290665 | 1 | 05/22/24 09:43 | 05/23/24 18:44 | LAS | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2294310 | 1 | 05/29/24 10:35 | 05/29/24 22:50 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294088 | 1 | 05/28/24 15:16 | 05/28/24 15:16 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293723 | 1 | 05/27/24 00:16 | 05/27/24 00:16 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296791 | 1 | 06/01/24 19:41 | 06/02/24 11:40 | DMG | Mt. Juliet, TN |

## TB-052024 L1738627-36 GW

Collected by: JA/AV | Collected date/time: 05/20/24 12:00 | Received date/time: 05/21/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293723 | 1 | 05/26/24 17:45 | 05/26/24 17:45 | ACG | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/08/24 16:28
Level II Report - Version 2: 08/16/24 10:41

## Project Narrative

The following report has been revised to include the MDL information.

For the following samples: L1738627-18 and -23, due to the high prevalence of shared congeners between Aroclors 1254 and 1260, and the similarities in chemical properties, only the most prevalent PCB aroclor was quantified for reporting. Quantification and reporting of both PCB aroclors would result in significant high bias error in the sample results.

GeoTracker EDD

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-1.0 | L1738627-01 | Mercury | 0.305 | | 0.0201 | 0.0446 | 1 | 05/27/2024 13:24 | WG2293349 |
| G-A1-1-2.0 | L1738627-02 | Mercury | 1.09 | | 0.0201 | 0.0446 | 1 | 05/27/2024 13:27 | WG2293349 |
| G-A1-1-3.0 | L1738627-03 | Mercury | 0.143 | | 0.0197 | 0.0437 | 1 | 05/27/2024 13:29 | WG2293349 |
| G/BS-A2-1-1.0 | L1738627-06 | Mercury | 0.239 | | 0.0201 | 0.0446 | 1 | 05/27/2024 13:32 | WG2293349 |
| G/BS-A2-1-2.0 | L1738627-07 | Mercury | 0.383 | | 0.0202 | 0.0448 | 1 | 05/27/2024 13:35 | WG2293349 |
| G/BS-A2-1-3.0 | L1738627-08 | Mercury | 0.151 | | 0.0239 | 0.0530 | 1 | 05/27/2024 13:37 | WG2293349 |
| UC-A2-1-1.0 | L1738627-11 | Mercury | 0.205 | | 0.0194 | 0.0432 | 1 | 05/27/2024 13:40 | WG2293349 |
| UC-A2-1-2.0 | L1738627-12 | Mercury | 0.286 | | 0.0197 | 0.0438 | 1 | 05/27/2024 13:42 | WG2293349 |
| UC-A2-1-3.0 | L1738627-13 | Mercury | 0.568 | | 0.0203 | 0.0451 | 1 | 05/27/2024 13:50 | WG2293349 |
| G/BS-A3-1-1.0 | L1738627-18 | Mercury | 0.473 | | 0.0198 | 0.0439 | 1 | 05/23/2024 10:42 | WG2290825 |
| G/BS-A3-1-2.0 | L1738627-19 | Mercury | 0.160 | | 0.0206 | 0.0458 | 1 | 05/23/2024 10:45 | WG2290825 |
| G/BS-A3-1-3.0 | L1738627-20 | Mercury | 0.0997 | | 0.0213 | 0.0474 | 1 | 05/23/2024 10:52 | WG2290825 |
| UC-A3-1-1.0 | L1738627-23 | Mercury | 0.0721 | | 0.0191 | 0.0425 | 1 | 05/23/2024 10:55 | WG2290825 |
| UC-A3-1-2.0 | L1738627-24 | Mercury | 0.0487 | | 0.0214 | 0.0475 | 1 | 05/27/2024 13:52 | WG2293349 |
| UC-A3-1-3.0 | L1738627-25 | Mercury | 0.188 | | 0.0208 | 0.0462 | 1 | 05/23/2024 10:57 | WG2290825 |
| BS-B1-1-1.0 | L1738627-30 | Mercury | 0.118 | | 0.0218 | 0.0484 | 1 | 05/27/2024 13:55 | WG2293349 |
| BS-B1-1-2.0 | L1738627-31 | Mercury | 0.150 | | 0.0210 | 0.0467 | 1 | 05/26/2024 22:05 | WG2293348 |
| BS-B1-1-3.0 | L1738627-32 | Mercury | 0.0948 | | 0.0232 | 0.0516 | 1 | 05/27/2024 13:57 | WG2293349 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-1.0 | L1738627-01 | Arsenic | 2.79 | | 0.578 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Barium | 110 | | 0.0951 | 0.558 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Beryllium | 0.275 | | 0.0352 | 0.223 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Cadmium | 0.263 | J | 0.0526 | 0.558 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Chromium | 42.5 | | 0.148 | 1.12 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Cobalt | 14.5 | | 0.0905 | 1.12 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Copper | 54.5 | | 0.446 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Lead | 117 | | 0.232 | 0.558 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Molybdenum | 1.72 | | 0.122 | 0.558 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Nickel | 21.0 | | 0.147 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Silver | 0.999 | J | 0.142 | 1.12 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Vanadium | 51.1 | | 0.565 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-1.0 | L1738627-01 | Zinc | 88.6 | | 0.929 | 5.58 | 1 | 06/01/2024 18:40 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Arsenic | 2.45 | | 0.578 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Barium | 270 | | 0.0951 | 0.558 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Beryllium | 0.264 | | 0.0351 | 0.223 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Cadmium | 0.380 | J | 0.0526 | 0.558 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Chromium | 17.7 | | 0.148 | 1.12 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Cobalt | 12.7 | | 0.0905 | 1.12 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Copper | 35.3 | | 0.446 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Lead | 47.5 | | 0.232 | 0.558 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Molybdenum | 0.500 | J | 0.122 | 0.558 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Nickel | 27.3 | | 0.147 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Silver | 0.561 | J | 0.142 | 1.12 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Thallium | 1.74 | J | 0.440 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Vanadium | 23.1 | | 0.565 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| G-A1-1-2.0 | L1738627-02 | Zinc | 122 | | 0.928 | 5.58 | 1 | 06/01/2024 18:42 | WG2293711 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-3.0 | L1738627-03 | Arsenic | 2.79 | | 0.566 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Barium | 152 | | 0.0932 | 0.547 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Beryllium | 0.213 | J | 0.0344 | 0.219 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Cadmium | 0.718 | | 0.0515 | 0.547 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Chromium | 22.0 | | 0.145 | 1.09 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Cobalt | 11.3 | | 0.0887 | 1.09 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Copper | 22.6 | | 0.437 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Lead | 67.4 | | 0.227 | 0.547 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Molybdenum | 0.184 | J | 0.119 | 0.547 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Nickel | 27.9 | | 0.144 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Silver | 0.553 | J J1 | 0.139 | 1.09 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Thallium | 1.15 | J1 | 0.431 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Vanadium | 27.4 | | 0.553 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| G-A1-1-3.0 | L1738627-03 | Zinc | 135 | | 0.910 | 5.47 | 1 | 06/01/2024 18:43 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Arsenic | 3.92 | | 0.578 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Barium | 337 | | 0.0950 | 0.558 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Beryllium | 0.288 | | 0.0351 | 0.223 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Cadmium | 0.481 | J | 0.0525 | 0.558 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Chromium | 27.3 | | 0.148 | 1.12 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Cobalt | 10.3 | | 0.0905 | 1.12 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Copper | 59.4 | | 0.446 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Lead | 131 | | 0.232 | 0.558 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Molybdenum | 0.133 | J | 0.122 | 0.558 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Nickel | 31.3 | | 0.147 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Silver | 0.544 | J J1 | 0.142 | 1.12 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Thallium | 1.49 | J1 | 0.439 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Vanadium | 33.7 | | 0.564 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-1.0 | L1738627-06 | Zinc | 160 | | 0.928 | 5.58 | 1 | 06/01/2024 18:48 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Arsenic | 5.06 | | 0.580 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Barium | 217 | | 0.0955 | 0.560 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Beryllium | 0.432 | | 0.0353 | 0.224 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Cadmium | 3.14 | | 0.0528 | 0.560 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Chromium | 36.4 | | 0.149 | 1.12 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Cobalt | 9.97 | | 0.0909 | 1.12 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Copper | 246 | | 0.448 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Lead | 625 | | 0.233 | 0.560 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Molybdenum | 1.35 | | 0.122 | 0.560 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Nickel | 55.0 | | 0.148 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Silver | 0.818 | J J1 | 0.142 | 1.12 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Thallium | 2.12 | J1 | 0.441 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Vanadium | 29.5 | | 0.567 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-2.0 | L1738627-07 | Zinc | 414 | | 0.932 | 5.60 | 1 | 06/01/2024 18:50 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Arsenic | 4.59 | | 0.687 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Barium | 122 | | 0.113 | 0.663 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Beryllium | 0.267 | | 0.0418 | 0.265 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Cadmium | 0.200 | J | 0.0624 | 0.663 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Chromium | 30.5 | | 0.176 | 1.33 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Cobalt | 9.80 | | 0.107 | 1.33 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Copper | 68.2 | | 0.530 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Lead | 46.2 | | 0.276 | 0.663 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Nickel | 45.0 | | 0.175 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Silver | 0.369 | J | 0.168 | 1.33 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Thallium | 0.720 | J1 | 0.522 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Vanadium | 22.9 | | 0.671 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| G/BS-A2-1-3.0 | L1738627-08 | Zinc | 70.5 | | 1.10 | 6.63 | 1 | 06/01/2024 18:51 | WG2293711 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| UC-A2-1-1.0 | L1738627-11 | Arsenic | 8.47 | | 0.559 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Barium | 198 | | 0.0920 | 0.540 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Beryllium | 0.217 | | 0.0340 | 0.216 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Cadmium | 2.30 | | 0.0509 | 0.540 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Chromium | 33.5 | | 0.144 | 1.08 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Cobalt | 6.82 | | 0.0876 | 1.08 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Copper | 373 | | 0.432 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Lead | 361 | | 0.225 | 0.540 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Molybdenum | 1.10 | | 0.118 | 0.540 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Nickel | 59.8 | | 0.143 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Silver | 1.01 | J | 0.137 | 1.08 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Thallium | 1.60 | J | 0.425 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Vanadium | 22.9 | | 0.546 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| UC-A2-1-1.0 | L1738627-11 | Zinc | 6260 | | 4.49 | 27.0 | 5 | 06/02/2024 11:56 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Arsenic | 3.84 | | 0.567 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Barium | 266 | | 0.0933 | 0.548 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Beryllium | 0.312 | | 0.0345 | 0.219 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Cadmium | 1.17 | | 0.0516 | 0.548 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Chromium | 28.7 | | 0.146 | 1.10 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Cobalt | 12.9 | | 0.0888 | 1.10 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Copper | 209 | | 0.438 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Lead | 179 | | 0.228 | 0.548 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Molybdenum | 0.197 | J | 0.119 | 0.548 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Nickel | 53.5 | | 0.145 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Silver | 0.796 | J | 0.139 | 1.10 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Thallium | 1.60 | J | 0.432 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Vanadium | 31.4 | | 0.554 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-2.0 | L1738627-12 | Zinc | 384 | | 0.911 | 5.48 | 1 | 06/01/2024 18:55 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Arsenic | 4.54 | | 0.584 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Barium | 213 | | 0.0961 | 0.564 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Beryllium | 0.153 | J | 0.0355 | 0.225 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Cadmium | 0.175 | J | 0.0531 | 0.564 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Chromium | 16.9 | | 0.150 | 1.13 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Cobalt | 4.72 | | 0.0914 | 1.13 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Copper | 28.1 | | 0.451 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Lead | 90.7 | | 0.235 | 0.564 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Molybdenum | 0.183 | J | 0.123 | 0.564 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Nickel | 21.6 | | 0.149 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Silver | 0.322 | J | 0.143 | 1.13 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Thallium | 0.966 | J | 0.444 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Vanadium | 15.9 | | 0.570 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| UC-A2-1-3.0 | L1738627-13 | Zinc | 78.7 | | 0.938 | 5.64 | 1 | 06/01/2024 18:56 | WG2293711 |
| G/BS-A3-1-1.0 | L1738627-18 | Antimony | 12.7 | | 2.99 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Arsenic | 19.0 | | 2.84 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Barium | 799 | | 0.468 | 2.75 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Beryllium | 0.294 | J | 0.174 | 1.10 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Cadmium | 47.1 | | 0.259 | 2.75 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Chromium | 61.1 | | 0.730 | 5.49 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Cobalt | 20.0 | | 0.446 | 5.49 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Copper | 1030 | | 2.20 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Lead | 1220 | | 1.14 | 2.75 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Molybdenum | 8.05 | | 0.599 | 2.75 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Nickel | 103 | | 0.725 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Thallium | 5.69 | J | 2.16 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Vanadium | 61.9 | | 2.78 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| G/BS-A3-1-1.0 | L1738627-18 | Zinc | 3250 | | 4.57 | 27.5 | 5 | 05/26/2024 20:15 | WG2291334 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-A3-1-2.0 | L1738627-19 | Antimony | 0.705 | J | 0.622 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Arsenic | 7.17 | | 0.593 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Barium | 121 | | 0.0975 | 0.572 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Beryllium | 0.136 | J | 0.0360 | 0.229 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Cadmium | 14.7 | | 0.0539 | 0.572 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Chromium | 17.2 | | 0.152 | 1.14 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Cobalt | 8.30 | | 0.0928 | 1.14 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Copper | 60.6 | | 0.458 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Lead | 67.1 | | 0.238 | 0.572 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Molybdenum | 0.523 | B J | 0.125 | 0.572 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Nickel | 22.1 | | 0.151 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Thallium | 2.27 | J | 0.451 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Vanadium | 72.1 | | 0.579 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-2.0 | L1738627-19 | Zinc | 212 | | 0.952 | 5.72 | 1 | 05/26/2024 20:10 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Arsenic | 2.61 | | 0.614 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Barium | 185 | | 0.101 | 0.593 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Beryllium | 0.342 | | 0.0373 | 0.237 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Chromium | 80.8 | | 0.158 | 1.19 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Cobalt | 12.9 | | 0.0961 | 1.19 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Copper | 36.8 | | 0.474 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Lead | 49.8 | | 0.247 | 0.593 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Molybdenum | 0.250 | B J | 0.129 | 0.593 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Nickel | 52.1 | | 0.156 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Thallium | 1.74 | J | 0.467 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Vanadium | 71.8 | | 0.600 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| G/BS-A3-1-3.0 | L1738627-20 | Zinc | 51.7 | | 0.986 | 5.93 | 1 | 05/26/2024 20:12 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Arsenic | 10.6 | | 0.551 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Barium | 190 | | 0.0906 | 0.532 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Beryllium | 0.306 | | 0.0335 | 0.213 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Cadmium | 0.104 | J | 0.0501 | 0.532 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Chromium | 111 | | 0.141 | 1.06 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Cobalt | 9.05 | | 0.0862 | 1.06 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Copper | 37.2 | | 0.425 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Lead | 44.4 | | 0.221 | 0.532 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Molybdenum | 1.67 | | 0.116 | 0.532 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Nickel | 86.1 | | 0.140 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Silver | 1.99 | | 0.135 | 1.06 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Thallium | 1.86 | J | 0.419 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Vanadium | 42.8 | | 0.538 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-1.0 | L1738627-23 | Zinc | 89.8 | | 0.885 | 5.32 | 1 | 05/26/2024 20:14 | WG2291334 |
| UC-A3-1-2.0 | L1738627-24 | Arsenic | 1.36 | J | 0.616 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Barium | 62.9 | | 0.101 | 0.594 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Beryllium | 0.128 | J | 0.0374 | 0.238 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Chromium | 9.44 | | 0.158 | 1.19 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Cobalt | 4.45 | | 0.0964 | 1.19 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Copper | 9.51 | | 0.475 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Lead | 11.1 | | 0.247 | 0.594 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Molybdenum | 0.181 | J | 0.130 | 0.594 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Nickel | 14.2 | | 0.157 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Silver | 0.175 | J | 0.151 | 1.19 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Thallium | 0.953 | J | 0.468 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Vanadium | 14.0 | | 0.601 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| UC-A3-1-2.0 | L1738627-24 | Zinc | 31.2 | | 0.989 | 5.94 | 1 | 06/01/2024 18:58 | WG2293711 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| UC-A3-1-3.0 | L1738627-25 | Antimony | 0.805 | J | 0.628 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Arsenic | 2.56 | | 0.598 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Barium | 162 | | 0.0983 | 0.577 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Beryllium | 0.219 | J | 0.0364 | 0.231 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Cadmium | 0.117 | J | 0.0544 | 0.577 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Chromium | 33.4 | | 0.153 | 1.15 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Cobalt | 5.71 | | 0.0936 | 1.15 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Copper | 13.9 | | 0.462 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Lead | 23.7 | | 0.240 | 0.577 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Molybdenum | 0.795 | | 0.126 | 0.577 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Nickel | 29.5 | | 0.152 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Silver | 0.247 | J | 0.147 | 1.15 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Vanadium | 34.2 | | 0.584 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| UC-A3-1-3.0 | L1738627-25 | Zinc | 47.0 | | 0.960 | 5.77 | 1 | 05/26/2024 20:58 | WG2291331 |
| BS-B1-1-1.0 | L1738627-30 | Arsenic | 3.15 | | 0.627 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Barium | 66.1 | | 0.103 | 0.605 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Beryllium | 0.188 | J | 0.0381 | 0.242 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Cadmium | 0.152 | J | 0.0570 | 0.605 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Chromium | 13.9 | | 0.161 | 1.21 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Cobalt | 7.60 | | 0.0981 | 1.21 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Copper | 44.6 | | 0.484 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Lead | 40.8 | | 0.252 | 0.605 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Molybdenum | 0.479 | J | 0.132 | 0.605 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Nickel | 22.5 | | 0.160 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Silver | 0.500 | J | 0.154 | 1.21 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Thallium | 1.67 | J | 0.477 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Vanadium | 28.4 | | 0.612 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-1.0 | L1738627-30 | Zinc | 68.4 | | 1.01 | 6.05 | 1 | 06/01/2024 19:00 | WG2293711 |
| BS-B1-1-2.0 | L1738627-31 | Antimony | 2.51 | | 0.635 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Arsenic | 6.20 | | 0.604 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Barium | 160 | | 0.0994 | 0.583 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Beryllium | 0.467 | | 0.0368 | 0.233 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Cadmium | 0.174 | J | 0.0550 | 0.583 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Chromium | 32.2 | | 0.155 | 1.17 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Cobalt | 12.4 | | 0.0946 | 1.17 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Copper | 34.8 | J5 | 0.467 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Lead | 59.1 | | 0.243 | 0.583 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Molybdenum | 0.156 | J | 0.127 | 0.583 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Nickel | 41.2 | | 0.154 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Vanadium | 59.6 | | 0.590 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-2.0 | L1738627-31 | Zinc | 98.9 | | 0.971 | 5.83 | 1 | 05/30/2024 17:19 | WG2293709 |
| BS-B1-1-3.0 | L1738627-32 | Arsenic | 3.21 | | 0.668 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Barium | 185 | | 0.110 | 0.645 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Beryllium | 0.491 | | 0.0406 | 0.258 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Chromium | 24.8 | | 0.172 | 1.29 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Cobalt | 13.7 | | 0.105 | 1.29 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Copper | 18.5 | | 0.516 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Lead | 16.2 | | 0.268 | 0.645 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Nickel | 44.9 | | 0.170 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Silver | 0.608 | J | 0.164 | 1.29 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Thallium | 1.21 | J | 0.508 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Vanadium | 35.6 | | 0.653 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| BS-B1-1-3.0 | L1738627-32 | Zinc | 40.9 | | 1.07 | 6.45 | 1 | 06/01/2024 19:01 | WG2293711 |

# DETECTION SUMMARY

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052024 | L1738627-35 | Barium | 0.503 | J | 0.381 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| EB-052024 | L1738627-35 | Chromium | 1.49 | J | 1.24 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| EB-052024 | L1738627-35 | Molybdenum | 0.711 | J | 0.348 | 5.00 | 1 | 05/29/2024 22:50 | WG2294310 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-3.0 | L1738627-03 | TPHG C5 - C12 | 2.26 | B J | 1.11 | 3.35 | 28.5 | 05/26/2024 02:22 | WG2293479 |
| G-A1-1-4.0 | L1738627-04 | TPHG C5 - C12 | 4.57 | B | 1.31 | 3.96 | 27 | 06/02/2024 15:23 | WG2297113 |
| G-A1-1-5.0 | L1738627-05 | TPHG C5 - C12 | 1.72 | B J | 1.22 | 3.68 | 25 | 05/26/2024 02:42 | WG2293479 |
| G/BS-A2-1-3.0 | L1738627-08 | TPHG C5 - C12 | 1.54 | B J | 1.46 | 4.40 | 25 | 05/26/2024 03:01 | WG2293479 |
| G/BS-A2-1-4.0 | L1738627-09 | TPHG C5 - C12 | 6.14 | B | 1.49 | 4.50 | 25 | 06/02/2024 15:46 | WG2297113 |
| G/BS-A2-1-5.0 | L1738627-10 | TPHG C5 - C12 | 1.79 | B J | 1.27 | 3.82 | 25 | 05/26/2024 03:20 | WG2293479 |
| UC-A2-1-3.0 | L1738627-13 | TPHG C5 - C12 | 1.46 | B J | 1.07 | 3.22 | 25 | 05/26/2024 03:40 | WG2293479 |
| UC-A2-1-5.0 | L1738627-15 | TPHG C5 - C12 | 1.67 | J | 1.44 | 4.33 | 25 | 05/23/2024 14:25 | WG2291959 |
| G/BS-A3-1-3.0 | L1738627-20 | TPHG C5 - C12 | 1.28 | J | 1.19 | 3.57 | 25 | 05/23/2024 14:44 | WG2291959 |
| G/BS-A3-1-5.0 | L1738627-22 | TPHG C5 - C12 | 1.95 | J | 1.31 | 3.96 | 25 | 05/23/2024 15:03 | WG2291959 |
| UC-A3-1-3.0 | L1738627-25 | TPHG C5 - C12 | 3.27 | J | 1.15 | 3.48 | 26.8 | 05/23/2024 15:23 | WG2291959 |
| UC-A3-1-5.0 | L1738627-27 | TPHG C5 - C12 | 2.34 | J | 1.47 | 4.44 | 30 | 05/23/2024 15:42 | WG2291959 |
| BS-B1-1-3.0 | L1738627-32 | TPHG C5 - C12 | 1.82 | B J | 1.35 | 4.08 | 26 | 05/26/2024 03:59 | WG2293479 |
| BS-B1-1-5.0 | L1738627-34 | TPHG C5 - C12 | 1.83 | B J | 1.39 | 4.20 | 25 | 05/26/2024 04:19 | WG2293479 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-2.0 | L1738627-02 | Benzene | 0.000669 | J | 0.000578 | 0.00124 | 1 | 05/27/2024 22:38 | WG2293465 |
| G-A1-1-2.0 | L1738627-02 | 1,1-Dichloroethene | 0.00105 | J | 0.000751 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| G-A1-1-2.0 | L1738627-02 | cis-1,2-Dichloroethene | 0.0180 | | 0.000909 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| G-A1-1-2.0 | L1738627-02 | trans-1,2-Dichloroethene | 0.0166 | | 0.00129 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| G-A1-1-2.0 | L1738627-02 | Trichloroethene | 0.0114 | | 0.000723 | 0.00124 | 1 | 05/27/2024 22:38 | WG2293465 |
| G-A1-1-2.0 | L1738627-02 | Xylenes, Total | 0.00111 | J | 0.00109 | 0.00805 | 1 | 05/27/2024 22:38 | WG2293465 |
| G-A1-1-3.0 | L1738627-03 | cis-1,2-Dichloroethene | 0.0110 | | 0.000984 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| G-A1-1-3.0 | L1738627-03 | trans-1,2-Dichloroethene | 0.00854 | | 0.00140 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| G-A1-1-3.0 | L1738627-03 | 1,1,2,2-Tetrachloroethane | 0.00224 | J | 0.000931 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| G-A1-1-3.0 | L1738627-03 | Trichloroethene | 0.0102 | | 0.000783 | 0.00134 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| G-A1-1-3.0 | L1738627-03 | Xylenes, Total | 0.00130 | J | 0.00118 | 0.00871 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| G-A1-1-5.0 | L1738627-05 | cis-1,2-Dichloroethene | 0.0143 | | 0.00108 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| G-A1-1-5.0 | L1738627-05 | trans-1,2-Dichloroethene | 0.0113 | | 0.00153 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| G-A1-1-5.0 | L1738627-05 | Toluene | 0.00384 | J | 0.00191 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| G-A1-1-5.0 | L1738627-05 | Trichloroethene | 0.00771 | | 0.000859 | 0.00147 | 1 | 05/27/2024 23:16 | WG2293465 |
| G-A1-1-5.0 | L1738627-05 | Xylenes, Total | 0.00162 | J | 0.00129 | 0.00956 | 1 | 05/27/2024 23:16 | WG2293465 |
| G/BS-A2-1-2.0 | L1738627-07 | Xylenes, Total | 0.00124 | J | 0.00110 | 0.00811 | 1 | 05/27/2024 23:36 | WG2293465 |
| G/BS-A2-1-5.0 | L1738627-10 | Toluene | 0.00269 | J | 0.00199 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| UC-A2-1-5.0 | L1738627-15 | Toluene | 0.00762 | J | 0.00225 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| G/BS-A3-1-2.0 | L1738627-19 | Chlorobenzene | 0.000493 | J | 0.000345 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| G/BS-A3-1-3.0 | L1738627-20 | Xylenes, Total | 0.00168 | J | 0.00126 | 0.00928 | 1 | 05/28/2024 00:52 | WG2293465 |

# DETECTION SUMMARY

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-3.0 | L1738627-03 | C12-C22 Hydrocarbons | 2.58 | J | 0.801 | 4.37 | 1 | 05/31/2024 10:13 | WG2295238 |
| G-A1-1-3.0 | L1738627-03 | C22-C32 Hydrocarbons | 8.30 | | 1.45 | 4.37 | 1 | 05/31/2024 10:13 | WG2295238 |
| G-A1-1-3.0 | L1738627-03 | C32-C40 Hydrocarbons | 7.74 | | 1.45 | 4.37 | 1 | 05/31/2024 10:13 | WG2295238 |
| G-A1-1-5.0 | L1738627-05 | C12-C22 Hydrocarbons | 3.83 | J | 0.901 | 4.91 | 1 | 05/30/2024 18:28 | WG2295238 |
| G-A1-1-5.0 | L1738627-05 | C22-C32 Hydrocarbons | 18.9 | | 1.63 | 4.91 | 1 | 05/30/2024 18:28 | WG2295238 |
| G-A1-1-5.0 | L1738627-05 | C32-C40 Hydrocarbons | 19.4 | | 1.63 | 4.91 | 1 | 05/30/2024 18:28 | WG2295238 |
| G/BS-A2-1-3.0 | L1738627-08 | C12-C22 Hydrocarbons | 1.95 | J | 0.972 | 5.30 | 1 | 05/31/2024 09:58 | WG2295238 |
| G/BS-A2-1-3.0 | L1738627-08 | C22-C32 Hydrocarbons | 9.84 | | 1.76 | 5.30 | 1 | 05/31/2024 09:58 | WG2295238 |
| G/BS-A2-1-3.0 | L1738627-08 | C32-C40 Hydrocarbons | 5.67 | | 1.76 | 5.30 | 1 | 05/31/2024 09:58 | WG2295238 |
| G/BS-A2-1-5.0 | L1738627-10 | C12-C22 Hydrocarbons | 1.54 | J | 0.913 | 4.98 | 1 | 05/30/2024 17:01 | WG2295238 |
| G/BS-A2-1-5.0 | L1738627-10 | C22-C32 Hydrocarbons | 3.46 | J | 1.66 | 4.98 | 1 | 05/30/2024 17:01 | WG2295238 |
| G/BS-A2-1-5.0 | L1738627-10 | C32-C40 Hydrocarbons | 3.39 | J | 1.66 | 4.98 | 1 | 05/30/2024 17:01 | WG2295238 |
| UC-A2-1-3.0 | L1738627-13 | C22-C32 Hydrocarbons | 165 | | 30.0 | 90.2 | 20 | 05/30/2024 20:08 | WG2295238 |
| UC-A2-1-3.0 | L1738627-13 | C32-C40 Hydrocarbons | 286 | | 30.0 | 90.2 | 20 | 05/30/2024 20:08 | WG2295238 |
| UC-A2-1-5.0 | L1738627-15 | C12-C22 Hydrocarbons | 2.91 | J | 0.979 | 5.34 | 1 | 05/24/2024 20:51 | WG2292509 |
| UC-A2-1-5.0 | L1738627-15 | C22-C32 Hydrocarbons | 8.16 | | 1.78 | 5.34 | 1 | 05/24/2024 20:51 | WG2292509 |
| UC-A2-1-5.0 | L1738627-15 | C32-C40 Hydrocarbons | 8.82 | | 1.78 | 5.34 | 1 | 05/24/2024 20:51 | WG2292509 |
| G/BS-A3-1-3.0 | L1738627-20 | C12-C22 Hydrocarbons | 15.1 | J | 4.35 | 23.7 | 5 | 05/24/2024 21:32 | WG2292509 |
| G/BS-A3-1-3.0 | L1738627-20 | C22-C32 Hydrocarbons | 134 | | 7.88 | 23.7 | 5 | 05/24/2024 21:32 | WG2292509 |
| G/BS-A3-1-3.0 | L1738627-20 | C32-C40 Hydrocarbons | 102 | | 7.88 | 23.7 | 5 | 05/24/2024 21:32 | WG2292509 |
| G/BS-A3-1-5.0 | L1738627-22 | C12-C22 Hydrocarbons | 5.45 | | 0.925 | 5.05 | 1 | 05/24/2024 20:23 | WG2292509 |
| G/BS-A3-1-5.0 | L1738627-22 | C22-C32 Hydrocarbons | 7.80 | | 1.68 | 5.05 | 1 | 05/24/2024 20:23 | WG2292509 |
| G/BS-A3-1-5.0 | L1738627-22 | C32-C40 Hydrocarbons | 4.46 | J | 1.68 | 5.05 | 1 | 05/24/2024 20:23 | WG2292509 |
| UC-A3-1-3.0 | L1738627-25 | C12-C22 Hydrocarbons | 96.7 | J | 33.8 | 185 | 40 | 05/24/2024 21:46 | WG2292509 |
| UC-A3-1-3.0 | L1738627-25 | C22-C32 Hydrocarbons | 553 | | 61.4 | 185 | 40 | 05/24/2024 21:46 | WG2292509 |
| UC-A3-1-3.0 | L1738627-25 | C32-C40 Hydrocarbons | 691 | | 61.4 | 185 | 40 | 05/24/2024 21:46 | WG2292509 |
| UC-A3-1-5.0 | L1738627-27 | C12-C22 Hydrocarbons | 5.99 | | 0.925 | 5.05 | 1 | 05/24/2024 19:42 | WG2292509 |
| UC-A3-1-5.0 | L1738627-27 | C22-C32 Hydrocarbons | 8.74 | | 1.68 | 5.05 | 1 | 05/24/2024 19:42 | WG2292509 |
| UC-A3-1-5.0 | L1738627-27 | C32-C40 Hydrocarbons | 2.81 | J | 1.68 | 5.05 | 1 | 05/24/2024 19:42 | WG2292509 |
| BS-B1-1-3.0 | L1738627-32 | C12-C22 Hydrocarbons | 9.78 | J | 4.73 | 25.8 | 5 | 05/30/2024 19:11 | WG2295238 |
| BS-B1-1-3.0 | L1738627-32 | C22-C32 Hydrocarbons | 75.0 | | 8.58 | 25.8 | 5 | 05/30/2024 19:11 | WG2295238 |
| BS-B1-1-3.0 | L1738627-32 | C32-C40 Hydrocarbons | 61.0 | | 8.58 | 25.8 | 5 | 05/30/2024 19:11 | WG2295238 |
| BS-B1-1-5.0 | L1738627-34 | C22-C32 Hydrocarbons | 173 | | 17.4 | 52.4 | 10 | 05/30/2024 19:25 | WG2295238 |
| BS-B1-1-5.0 | L1738627-34 | C32-C40 Hydrocarbons | 212 | | 17.4 | 52.4 | 10 | 05/30/2024 19:25 | WG2295238 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-1.0 | L1738627-01 | PCB 1260 | 0.0343 | | 0.00824 | 0.0190 | 1 | 05/28/2024 11:55 | WG2294060 |
| G-A1-1-2.0 | L1738627-02 | PCB 1260 | 0.731 | | 0.00823 | 0.0190 | 1 | 06/06/2024 00:43 | WG2298713 |
| G/BS-A2-1-1.0 | L1738627-06 | PCB 1260 | 0.0352 | | 0.00823 | 0.0190 | 1 | 05/28/2024 12:04 | WG2294060 |
| G/BS-A2-1-2.0 | L1738627-07 | PCB 1260 | 0.133 | | 0.00827 | 0.0190 | 1 | 06/06/2024 00:52 | WG2298713 |
| UC-A2-1-1.0 | L1738627-11 | PCB 1260 | 0.147 | | 0.00797 | 0.0184 | 1 | 05/28/2024 12:13 | WG2294060 |
| G/BS-A3-1-1.0 | L1738627-18 | PCB 1260 | 0.255 | | 0.00810 | 0.0187 | 1 | 05/22/2024 15:39 | WG2291058 |
| UC-A3-1-1.0 | L1738627-23 | PCB 1260 | 0.0195 | | 0.00785 | 0.0181 | 1 | 05/22/2024 15:57 | WG2291058 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-2.0 | L1738627-02 | Benzo(a)anthracene | 0.0655 | J | 0.0655 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| G-A1-1-2.0 | L1738627-02 | Benzo(b)fluoranthene | 0.0977 | J | 0.0693 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| G-A1-1-2.0 | L1738627-02 | Benzo(a)pyrene | 0.0815 | J | 0.0691 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| G-A1-1-2.0 | L1738627-02 | Chrysene | 0.0878 | J | 0.0739 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| G-A1-1-2.0 | L1738627-02 | Fluoranthene | 0.0734 | J | 0.0671 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| G-A1-1-2.0 | L1738627-02 | Pyrene | 0.0896 | J | 0.0723 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| G-A1-1-3.0 | L1738627-03 | Benzo(b)fluoranthene | 0.00881 | J | 0.00679 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| G-A1-1-3.0 | L1738627-03 | Benzo(g,h,i)perylene | 0.00687 | J | 0.00666 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| G-A1-1-3.0 | L1738627-03 | Fluoranthene | 0.00882 | J | 0.00657 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| G-A1-1-3.0 | L1738627-03 | Pyrene | 0.00972 | J | 0.00709 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| G/BS-A2-1-1.0 | L1738627-06 | Benzo(a)anthracene | 0.0883 | J | 0.0655 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| G/BS-A2-1-1.0 | L1738627-06 | Benzo(b)fluoranthene | 0.155 | J | 0.0693 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| G/BS-A2-1-1.0 | L1738627-06 | Benzo(a)pyrene | 0.113 | J | 0.0690 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| G/BS-A2-1-1.0 | L1738627-06 | Chrysene | 0.104 | J | 0.0738 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| G/BS-A2-1-1.0 | L1738627-06 | Fluoranthene | 0.0936 | J | 0.0670 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| G/BS-A2-1-1.0 | L1738627-06 | Pyrene | 0.108 | J | 0.0723 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Benzo(a)anthracene | 0.0317 | J | 0.0131 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Benzo(b)fluoranthene | 0.0601 | J | 0.0139 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Benzo(k)fluoranthene | 0.0187 | J | 0.0132 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Benzo(g,h,i)perylene | 0.0372 | J | 0.0137 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Benzo(a)pyrene | 0.0396 | J | 0.0139 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Chrysene | 0.0471 | J | 0.0148 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Fluoranthene | 0.0419 | J | 0.0134 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Indeno(1,2,3-cd)pyrene | 0.0369 | J | 0.0211 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Phenanthrene | 0.0251 | J | 0.0148 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Benzylbutyl phthalate | 0.0337 | J | 0.0233 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Di-n-butyl phthalate | 0.0529 | J | 0.0255 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| G/BS-A2-1-2.0 | L1738627-07 | Pyrene | 0.0478 | J | 0.0146 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Benzo(a)anthracene | 0.0275 | J | 0.0126 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Benzo(b)fluoranthene | 0.0630 | J | 0.0134 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Benzo(k)fluoranthene | 0.0188 | J | 0.0127 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Benzo(g,h,i)perylene | 0.0366 | J | 0.0132 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Benzo(a)pyrene | 0.0356 | J | 0.0134 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Chrysene | 0.0346 | J | 0.0143 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Fluoranthene | 0.0484 | J | 0.0130 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Indeno(1,2,3-cd)pyrene | 0.0422 | J | 0.0203 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Phenanthrene | 0.0255 | J | 0.0143 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Benzylbutyl phthalate | 0.402 | J | 0.0225 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Bis(2-ethylhexyl)phthalate | 0.140 | J | 0.0911 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Di-n-butyl phthalate | 0.0326 | J | 0.0246 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-1.0 | L1738627-11 | Pyrene | 0.0514 | J | 0.0140 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Acenaphthylene | 0.405 | | 0.0529 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Anthracene | 0.483 | | 0.0669 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Benzo(a)anthracene | 1.66 | | 0.0662 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Benzo(b)fluoranthene | 1.75 | | 0.0700 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Benzo(k)fluoranthene | 0.676 | | 0.0667 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Benzo(g,h,i)perylene | 0.630 | | 0.0687 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Benzo(a)pyrene | 1.52 | | 0.0698 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Chrysene | 1.70 | | 0.0746 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Dibenz(a,h)anthracene | 0.202 | J | 0.104 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Fluoranthene | 3.80 | | 0.0678 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Fluorene | 0.138 | J | 0.0611 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Indeno(1,2,3-cd)pyrene | 0.821 | | 0.106 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Naphthalene | 0.101 | J | 0.0943 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Phenanthrene | 3.13 | | 0.0745 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| UC-A2-1-3.0 | L1738627-13 | Pyrene | 3.46 | | 0.0731 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-A3-1-1.0 | L1738627-18 | Acenaphthylene | 0.0374 | J | 0.0103 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Anthracene | 0.0437 | J | 0.0131 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Benzo(a)anthracene | 0.133 | | 0.0128 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Benzo(b)fluoranthene | 0.203 | | 0.0136 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Benzo(k)fluoranthene | 0.0614 | J | 0.0130 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Benzo(g,h,i)perylene | 0.131 | | 0.0134 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Benzo(a)pyrene | 0.154 | | 0.0136 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Chrysene | 0.170 | | 0.0145 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Dibenz(a,h)anthracene | 0.0269 | J | 0.0203 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Fluoranthene | 0.286 | | 0.0132 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Fluorene | 0.0226 | J | 0.0119 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Indeno(1,2,3-cd)pyrene | 0.139 | | 0.0206 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Naphthalene | 0.0881 | | 0.0183 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Phenanthrene | 0.290 | | 0.0145 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Di-n-butyl phthalate | 0.304 | J | 0.0250 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-1.0 | L1738627-18 | Pyrene | 0.297 | | 0.0143 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| G/BS-A3-1-2.0 | L1738627-19 | Benzo(b)fluoranthene | 0.0204 | J | 0.0142 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| G/BS-A3-1-2.0 | L1738627-19 | Fluoranthene | 0.0294 | J | 0.0137 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| G/BS-A3-1-2.0 | L1738627-19 | Phenanthrene | 0.0205 | J | 0.0151 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| G/BS-A3-1-2.0 | L1738627-19 | Pyrene | 0.0267 | J | 0.0149 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Benzo(a)anthracene | 0.0318 | J | 0.0142 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Benzo(b)fluoranthene | 0.0315 | J | 0.0150 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Benzo(g,h,i)perylene | 0.0201 | J | 0.0148 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Benzo(a)pyrene | 0.0298 | J | 0.0150 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Chrysene | 0.0317 | J | 0.0160 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Fluoranthene | 0.0650 | J | 0.0145 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Indeno(1,2,3-cd)pyrene | 0.0229 | J | 0.0227 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Phenanthrene | 0.0273 | J | 0.0160 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| BS-B1-1-1.0 | L1738627-30 | Pyrene | 0.0598 | J | 0.0157 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 89.6 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.305 | | 0.0201 | 0.0446 | 1 | 05/27/2024 13:24 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.607 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| Arsenic | 2.79 | | 0.578 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| Barium | 110 | | 0.0951 | 0.558 | 1 | 06/01/2024 18:40 | WG2293711 |
| Beryllium | 0.275 | | 0.0352 | 0.223 | 1 | 06/01/2024 18:40 | WG2293711 |
| Cadmium | 0.263 | J | 0.0526 | 0.558 | 1 | 06/01/2024 18:40 | WG2293711 |
| Chromium | 42.5 | | 0.148 | 1.12 | 1 | 06/01/2024 18:40 | WG2293711 |
| Cobalt | 14.5 | | 0.0905 | 1.12 | 1 | 06/01/2024 18:40 | WG2293711 |
| Copper | 54.5 | | 0.446 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| Lead | 117 | | 0.232 | 0.558 | 1 | 06/01/2024 18:40 | WG2293711 |
| Molybdenum | 1.72 | | 0.122 | 0.558 | 1 | 06/01/2024 18:40 | WG2293711 |
| Nickel | 21.0 | | 0.147 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| Selenium | U | | 0.853 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| Silver | 0.999 | J | 0.142 | 1.12 | 1 | 06/01/2024 18:40 | WG2293711 |
| Thallium | U | | 0.440 | 2.23 | 1 | 06/04/2024 10:31 | WG2293711 |
| Vanadium | 51.1 | | 0.565 | 2.23 | 1 | 06/01/2024 18:40 | WG2293711 |
| Zinc | 88.6 | | 0.929 | 5.58 | 1 | 06/01/2024 18:40 | WG2293711 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0132 | 0.0379 | 1 | 05/28/2024 11:55 | WG2294060 |
| PCB 1221 | U | | 0.0132 | 0.0379 | 1 | 05/28/2024 11:55 | WG2294060 |
| PCB 1232 | U | | 0.0132 | 0.0379 | 1 | 05/28/2024 11:55 | WG2294060 |
| PCB 1242 | U | | 0.0132 | 0.0379 | 1 | 05/28/2024 11:55 | WG2294060 |
| PCB 1248 | U | | 0.00824 | 0.0190 | 1 | 05/28/2024 11:55 | WG2294060 |
| PCB 1254 | U | | 0.00824 | 0.0190 | 1 | 05/28/2024 11:55 | WG2294060 |
| PCB 1260 | 0.0343 | | 0.00824 | 0.0190 | 1 | 05/28/2024 11:55 | WG2294060 |
| *(S) Decachlorobiphenyl* | *66.0* | | | *10.0-135* | | *05/28/2024 11:55* | WG2294060 |
| *(S) Tetrachloro-m-xylene* | *64.8* | | | *10.0-139* | | *05/28/2024 11:55* | WG2294060 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0602 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Acenaphthylene | U | | 0.0523 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Anthracene | U | | 0.0662 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Benzidine | U | | 0.699 | 18.6 | 10 | 05/31/2024 04:26 | WG2294807 |
| Benzo(a)anthracene | U | | 0.0655 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.0693 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0661 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0680 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Benzo(a)pyrene | U | | 0.0691 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.112 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.123 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.161 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.131 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0653 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.129 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Chrysene | U | | 0.0739 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.103 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.110 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.113 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.111 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.137 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.107 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.122 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Fluoranthene | U | | 0.0671 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Fluorene | U | | 0.0605 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Hexachlorobenzene | U | | 0.132 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.125 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.195 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Hexachloroethane | U | | 0.146 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.105 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Isophorone | U | | 0.114 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Naphthalene | U | | 0.0933 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Nitrobenzene | U | | 0.129 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.551 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.281 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.124 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Phenanthrene | U | | 0.0738 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.116 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.471 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.127 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Diethyl phthalate | U | | 0.123 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Dimethyl phthalate | U | | 0.788 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.251 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Pyrene | U | | 0.0723 | 0.372 | 10 | 05/31/2024 04:26 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.116 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.121 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2-Chlorophenol | U | | 0.123 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.108 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0971 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.843 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.869 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2-Nitrophenol | U | | 0.133 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 4-Nitrophenol | U | | 0.116 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Pentachlorophenol | U | | 0.100 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| Phenol | U | | 0.150 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.119 | 3.72 | 10 | 05/31/2024 04:26 | WG2294807 |
| *(S) 2-Fluorophenol* | *101* | | | *12.0-120* | | *05/31/2024 04:26* | WG2294807 |
| *(S) Phenol-d5* | *92.6* | | | *10.0-120* | | *05/31/2024 04:26* | WG2294807 |
| *(S) Nitrobenzene-d5* | *77.6* | | | *10.0-122* | | *05/31/2024 04:26* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *93.1* | | | *15.0-120* | | *05/31/2024 04:26* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *74.8* | | | *10.0-127* | | *05/31/2024 04:26* | WG2294807 |
| *(S) p-Terphenyl-d14* | *94.6* | | | *10.0-120* | | *05/31/2024 04:26* | WG2294807 |

**Sample Narrative:**

L1738627-01 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 89.6 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 1.09 | | 0.0201 | 0.0446 | 1 | 05/27/2024 13:27 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.607 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| Arsenic | 2.45 | | 0.578 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| Barium | 270 | | 0.0951 | 0.558 | 1 | 06/01/2024 18:42 | WG2293711 |
| Beryllium | 0.264 | | 0.0351 | 0.223 | 1 | 06/01/2024 18:42 | WG2293711 |
| Cadmium | 0.380 | J | 0.0526 | 0.558 | 1 | 06/01/2024 18:42 | WG2293711 |
| Chromium | 17.7 | | 0.148 | 1.12 | 1 | 06/01/2024 18:42 | WG2293711 |
| Cobalt | 12.7 | | 0.0905 | 1.12 | 1 | 06/01/2024 18:42 | WG2293711 |
| Copper | 35.3 | | 0.446 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| Lead | 47.5 | | 0.232 | 0.558 | 1 | 06/01/2024 18:42 | WG2293711 |
| Molybdenum | 0.500 | J | 0.122 | 0.558 | 1 | 06/01/2024 18:42 | WG2293711 |
| Nickel | 27.3 | | 0.147 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| Selenium | U | | 0.852 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| Silver | 0.561 | J | 0.142 | 1.12 | 1 | 06/01/2024 18:42 | WG2293711 |
| Thallium | 1.74 | J | 0.440 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| Vanadium | 23.1 | | 0.565 | 2.23 | 1 | 06/01/2024 18:42 | WG2293711 |
| Zinc | 122 | | 0.928 | 5.58 | 1 | 06/01/2024 18:42 | WG2293711 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0452 | 0.0619 | 1 | 05/27/2024 22:38 | WG2293465 |
| Acrylonitrile | U | | 0.00447 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| Benzene | 0.000669 | J | 0.000578 | 0.00124 | 1 | 05/27/2024 22:38 | WG2293465 |
| Bromobenzene | U | | 0.00111 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| Bromodichloromethane | U | | 0.000898 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Bromoform | U | | 0.00145 | 0.0310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Bromomethane | U | | 0.00244 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| n-Butylbenzene | U | | 0.00650 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| sec-Butylbenzene | U | | 0.00357 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| tert-Butylbenzene | U | | 0.00242 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| Carbon tetrachloride | U | | 0.00111 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| Chlorobenzene | U | | 0.000260 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Chlorodibromomethane | U | | 0.000758 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Chloroethane | U | | 0.00211 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| Chloroform | U | | 0.00128 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Chloromethane | U | | 0.00539 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00107 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000557 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00483 | 0.0310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.000803 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Dibromomethane | U | | 0.000929 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000526 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000743 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.000867 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00199 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000608 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.000804 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,1-Dichloroethene | 0.00105 | J | 0.000751 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| cis-1,2-Dichloroethene | 0.0180 | | 0.000909 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| trans-1,2-Dichloroethene | 0.0166 | | 0.00129 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00176 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00100 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000621 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.000938 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00141 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00171 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Di-isopropyl ether | U | | 0.000508 | 0.00124 | 1 | 05/27/2024 22:38 | WG2293465 |
| Ethylbenzene | U | | 0.000913 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00743 | 0.0310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Isopropylbenzene | U | | 0.000526 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00316 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.0787 | 0.124 | 1 | 05/27/2024 22:38 | WG2293465 |
| Methylene Chloride | U | | 0.00822 | 0.0310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00282 | 0.0310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Methyl tert-butyl ether | U | | 0.000434 | 0.00124 | 1 | 05/27/2024 22:38 | WG2293465 |
| Naphthalene | U | J3 | 0.00604 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| n-Propylbenzene | U | | 0.00118 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| Styrene | U | | 0.000284 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00117 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000861 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000934 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Tetrachloroethene | U | | 0.00111 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Toluene | U | | 0.00161 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.00908 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00545 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00114 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000739 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Trichloroethene | 0.0114 | | 0.000723 | 0.00124 | 1 | 05/27/2024 22:38 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00102 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00201 | 0.0155 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00196 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00196 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00248 | 0.00619 | 1 | 05/27/2024 22:38 | WG2293465 |
| Vinyl chloride | U | | 0.00144 | 0.00310 | 1 | 05/27/2024 22:38 | WG2293465 |
| Xylenes, Total | 0.00111 | J | 0.00109 | 0.00805 | 1 | 05/27/2024 22:38 | WG2293465 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *05/27/2024 22:38* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/27/2024 22:38* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *94.9* | | | *70.0-130* | | *05/27/2024 22:38* | WG2293465 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0132 | 0.0379 | 1 | 06/06/2024 00:43 | WG2298713 |
| PCB 1221 | U | | 0.0132 | 0.0379 | 1 | 06/06/2024 00:43 | WG2298713 |
| PCB 1232 | U | | 0.0132 | 0.0379 | 1 | 06/06/2024 00:43 | WG2298713 |
| PCB 1242 | U | | 0.0132 | 0.0379 | 1 | 06/06/2024 00:43 | WG2298713 |
| PCB 1248 | U | | 0.00823 | 0.0190 | 1 | 06/06/2024 00:43 | WG2298713 |
| PCB 1254 | U | | 0.00823 | 0.0190 | 1 | 06/06/2024 00:43 | WG2298713 |
| PCB 1260 | 0.731 | | 0.00823 | 0.0190 | 1 | 06/06/2024 00:43 | WG2298713 |
| *(S) Decachlorobiphenyl* | *72.7* | | | *10.0-135* | | *06/06/2024 00:43* | WG2298713 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *76.6* | | | *10.0-139* | | *06/06/2024 00:43* | WG2298713 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0601 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Acenaphthylene | U | | 0.0523 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Anthracene | U | | 0.0662 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Benzidine | U | | 0.698 | 18.6 | 10 | 05/31/2024 02:48 | WG2294807 |
| Benzo(a)anthracene | 0.0655 | J | 0.0655 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Benzo(b)fluoranthene | 0.0977 | J | 0.0693 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0661 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0679 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Benzo(a)pyrene | 0.0815 | J | 0.0691 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.112 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.123 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.161 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.131 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0653 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.129 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Chrysene | 0.0878 | J | 0.0739 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.103 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.110 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.113 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.111 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.137 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.107 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.122 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Fluoranthene | 0.0734 | J | 0.0671 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Fluorene | U | | 0.0605 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Hexachlorobenzene | U | | 0.132 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.125 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Hexachlorocyclopentadiene | U | J3 J6 | 0.195 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Hexachloroethane | U | | 0.146 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.105 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Isophorone | U | | 0.114 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Naphthalene | U | | 0.0933 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Nitrobenzene | U | | 0.129 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| n-Nitrosodimethylamine | U | J6 | 0.551 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.281 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.124 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Phenanthrene | U | | 0.0738 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.116 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.471 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.127 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Diethyl phthalate | U | | 0.123 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Dimethyl phthalate | U | | 0.788 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Di-n-octyl phthalate | U | J5 | 0.251 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Pyrene | 0.0896 | J | 0.0723 | 0.372 | 10 | 05/31/2024 02:48 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.116 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.121 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2-Chlorophenol | U | | 0.123 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.108 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0971 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.842 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2,4-Dinitrophenol | U | J6 | 0.869 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.133 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 4-Nitrophenol | U | | 0.116 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Pentachlorophenol | U | | 0.100 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| Phenol | U | | 0.150 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.119 | 3.72 | 10 | 05/31/2024 02:48 | WG2294807 |
| *(S) 2-Fluorophenol* | *84.8* | | | *12.0-120* | | *05/31/2024 02:48* | WG2294807 |
| *(S) Phenol-d5* | *77.3* | | | *10.0-120* | | *05/31/2024 02:48* | WG2294807 |
| *(S) Nitrobenzene-d5* | *62.0* | | | *10.0-122* | | *05/31/2024 02:48* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *77.2* | | | *15.0-120* | | *05/31/2024 02:48* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *81.8* | | | *10.0-127* | | *05/31/2024 02:48* | WG2294807 |
| *(S) p-Terphenyl-d14* | *83.3* | | | *10.0-120* | | *05/31/2024 02:48* | WG2294807 |

**Sample Narrative:**

L1738627-02 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.5 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.143 | | 0.0197 | 0.0437 | 1 | 05/27/2024 13:29 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.595 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| Arsenic | 2.79 | | 0.566 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| Barium | 152 | | 0.0932 | 0.547 | 1 | 06/01/2024 18:43 | WG2293711 |
| Beryllium | 0.213 | J | 0.0344 | 0.219 | 1 | 06/01/2024 18:43 | WG2293711 |
| Cadmium | 0.718 | | 0.0515 | 0.547 | 1 | 06/01/2024 18:43 | WG2293711 |
| Chromium | 22.0 | | 0.145 | 1.09 | 1 | 06/01/2024 18:43 | WG2293711 |
| Cobalt | 11.3 | | 0.0887 | 1.09 | 1 | 06/01/2024 18:43 | WG2293711 |
| Copper | 22.6 | | 0.437 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| Lead | 67.4 | | 0.227 | 0.547 | 1 | 06/01/2024 18:43 | WG2293711 |
| Molybdenum | 0.184 | J | 0.119 | 0.547 | 1 | 06/01/2024 18:43 | WG2293711 |
| Nickel | 27.9 | | 0.144 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| Selenium | U | | 0.835 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| Silver | 0.553 | J | 0.139 | 1.09 | 1 | 06/01/2024 18:43 | WG2293711 |
| Thallium | 1.15 | J | 0.431 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| Vanadium | 27.4 | | 0.553 | 2.19 | 1 | 06/01/2024 18:43 | WG2293711 |
| Zinc | 135 | | 0.910 | 5.47 | 1 | 06/01/2024 18:43 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.26 | B J | 1.11 | 3.35 | 28.5 | 05/26/2024 02:22 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *77.0-120* | | *05/26/2024 02:22* | WG2293479 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0489 | 0.0670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Acrylonitrile | U | | 0.00484 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Benzene | U | | 0.000625 | 0.00134 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Bromobenzene | U | | 0.00121 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Bromodichloromethane | U | | 0.000972 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Bromoform | U | | 0.00156 | 0.0335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Bromomethane | U | | 0.00264 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| n-Butylbenzene | U | | 0.00704 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| sec-Butylbenzene | U | | 0.00385 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| tert-Butylbenzene | U | | 0.00261 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Carbon tetrachloride | U | | 0.00120 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Chlorobenzene | U | | 0.000281 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Chlorodibromomethane | U | | 0.000820 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Chloroethane | U | | 0.00228 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Chloroform | U | | 0.00137 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Chloromethane | U | | 0.00583 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00116 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000603 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00523 | 0.0335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.000868 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Dibromomethane | U | | 0.00100 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000570 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000804 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.000938 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Dichlorodifluoromethane | U | | 0.00216 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000658 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.000870 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.000812 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| cis-1,2-Dichloroethene | 0.0110 | | 0.000984 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| trans-1,2-Dichloroethene | 0.00854 | | 0.00140 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00190 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00108 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000671 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.00101 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00153 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00184 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Di-isopropyl ether | U | | 0.000549 | 0.00134 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Ethylbenzene | U | | 0.000987 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00804 | 0.0335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Isopropylbenzene | U | | 0.000570 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00342 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.0851 | 0.134 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Methylene Chloride | U | | 0.00890 | 0.0335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00306 | 0.0335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Methyl tert-butyl ether | U | | 0.000469 | 0.00134 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Naphthalene | U | J3 | 0.00653 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| n-Propylbenzene | U | | 0.00127 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Styrene | U | | 0.000307 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00127 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | 0.00224 | J | 0.000931 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00101 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Tetrachloroethene | U | | 0.00120 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Toluene | U | | 0.00174 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.00982 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00590 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00123 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000800 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Trichloroethene | 0.0102 | | 0.000783 | 0.00134 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00111 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00217 | 0.0168 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00212 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00212 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00268 | 0.00670 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Vinyl chloride | U | | 0.00155 | 0.00335 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| Xylenes, Total | 0.00130 | J | 0.00118 | 0.00871 | 1.14 | 05/27/2024 22:57 | WG2293465 |
| *(S) Toluene-d8* | *99.9* | | | *75.0-131* | | *05/27/2024 22:57* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *05/27/2024 22:57* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *93.6* | | | *70.0-130* | | *05/27/2024 22:57* | WG2293465 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.58 | J | 0.801 | 4.37 | 1 | 05/31/2024 10:13 | WG2295238 |
| C22-C32 Hydrocarbons | 8.30 | | 1.45 | 4.37 | 1 | 05/31/2024 10:13 | WG2295238 |
| C32-C40 Hydrocarbons | 7.74 | | 1.45 | 4.37 | 1 | 05/31/2024 10:13 | WG2295238 |
| *(S) o-Terphenyl* | *41.4* | | | *18.0-148* | | *05/31/2024 10:13* | WG2295238 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0129 | 0.0372 | 1 | 06/29/2024 21:05 | WG2314453 |
| PCB 1221 | U | | 0.0129 | 0.0372 | 1 | 06/29/2024 21:05 | WG2314453 |
| PCB 1232 | U | | 0.0129 | 0.0372 | 1 | 06/29/2024 21:05 | WG2314453 |
| PCB 1242 | U | | 0.0129 | 0.0372 | 1 | 06/29/2024 21:05 | WG2314453 |
| PCB 1248 | U | | 0.00807 | 0.0186 | 1 | 06/29/2024 21:05 | WG2314453 |
| PCB 1254 | U | | 0.00807 | 0.0186 | 1 | 06/29/2024 21:05 | WG2314453 |
| PCB 1260 | U | | 0.00807 | 0.0186 | 1 | 06/29/2024 21:05 | WG2314453 |
| *(S) Decachlorobiphenyl* | *54.5* | | | *10.0-135* | | *06/29/2024 21:05* | WG2314453 |
| *(S) Tetrachloro-m-xylene* | *72.1* | | | *10.0-139* | | *06/29/2024 21:05* | WG2314453 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00589 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Acenaphthylene | U | | 0.00513 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Anthracene | U | | 0.00648 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Benzidine | U | | 0.0684 | 1.83 | 1 | 05/30/2024 22:44 | WG2294807 |
| Benzo(a)anthracene | U | | 0.00642 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Benzo(b)fluoranthene | 0.00881 | J | 0.00679 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.00647 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Benzo(g,h,i)perylene | 0.00687 | J | 0.00666 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Benzo(a)pyrene | U | | 0.00677 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0109 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0120 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0157 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0128 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.00640 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0127 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Chrysene | U | | 0.00724 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0101 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0108 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0110 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0108 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0134 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0104 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0119 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Fluoranthene | 0.00882 | J | 0.00657 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Fluorene | U | | 0.00593 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Hexachlorobenzene | U | | 0.0129 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0122 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0191 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Hexachloroethane | U | | 0.0143 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0103 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Isophorone | U | | 0.0112 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Naphthalene | U | | 0.00914 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Nitrobenzene | U | | 0.0127 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.0540 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |

Cp Tc Ss Cn Ds Sr Qc Gl Al Sc

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | U | | 0.0276 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0121 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Phenanthrene | U | | 0.00723 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.0114 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0461 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.0125 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Diethyl phthalate | U | | 0.0120 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Dimethyl phthalate | U | | 0.0772 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0246 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Pyrene | 0.00972 | J | 0.00709 | 0.0364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0114 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.0118 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2-Chlorophenol | U | | 0.0120 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0106 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.00951 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0826 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.0852 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2-Nitrophenol | U | | 0.0130 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 4-Nitrophenol | U | | 0.0114 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Pentachlorophenol | U | | 0.00980 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| Phenol | U | | 0.0147 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0117 | 0.364 | 1 | 05/30/2024 22:44 | WG2294807 |
| *(S) 2-Fluorophenol* | *93.2* | | | *12.0-120* | | *05/30/2024 22:44* | WG2294807 |
| *(S) Phenol-d5* | *89.1* | | | *10.0-120* | | *05/30/2024 22:44* | WG2294807 |
| *(S) Nitrobenzene-d5* | *70.3* | | | *10.0-122* | | *05/30/2024 22:44* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *84.8* | | | *15.0-120* | | *05/30/2024 22:44* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *87.4* | | | *10.0-127* | | *05/30/2024 22:44* | WG2294807 |
| *(S) p-Terphenyl-d14* | *95.8* | | | *10.0-120* | | *05/30/2024 22:44* | WG2294807 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 80.5 | | 1 | 06/10/2024 16:19 | WG2302291 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 4.57 | B | 1.31 | 3.96 | 27 | 06/02/2024 15:23 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.4* | | | *77.0-120* | | *06/02/2024 15:23* | WG2297113 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.4 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.72 | B J | 1.22 | 3.68 | 25 | 05/26/2024 02:42 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.2* | | | *77.0-120* | | *05/26/2024 02:42* | WG2293479 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0537 | 0.0736 | 1 | 05/27/2024 23:16 | WG2293465 |
| Acrylonitrile | U | | 0.00531 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| Benzene | U | | 0.000687 | 0.00147 | 1 | 05/27/2024 23:16 | WG2293465 |
| Bromobenzene | U | | 0.00132 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| Bromodichloromethane | U | | 0.00107 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Bromoform | U | | 0.00172 | 0.0368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Bromomethane | U | | 0.00290 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| n-Butylbenzene | U | | 0.00772 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| sec-Butylbenzene | U | | 0.00424 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| tert-Butylbenzene | U | | 0.00287 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| Carbon tetrachloride | U | | 0.00132 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| Chlorobenzene | U | | 0.000309 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Chlorodibromomethane | U | | 0.000900 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Chloroethane | U | | 0.00250 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| Chloroform | U | | 0.00152 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Chloromethane | U | | 0.00640 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00127 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000662 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00574 | 0.0368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.000953 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Dibromomethane | U | | 0.00110 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000625 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000883 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.00103 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| Dichlorodifluoromethane | U | | 0.00237 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000722 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.000955 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.000891 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| cis-1,2-Dichloroethene | 0.0143 | | 0.00108 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| trans-1,2-Dichloroethene | 0.0113 | | 0.00153 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00209 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00119 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000737 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.00111 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00168 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00203 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Di-isopropyl ether | U | | 0.000603 | 0.00147 | 1 | 05/27/2024 23:16 | WG2293465 |
| Ethylbenzene | U | | 0.00108 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00883 | 0.0368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Isopropylbenzene | U | | 0.000625 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00375 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.0934 | 0.147 | 1 | 05/27/2024 23:16 | WG2293465 |
| Methylene Chloride | U | | 0.00977 | 0.0368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00335 | 0.0368 | 1 | 05/27/2024 23:16 | WG2293465 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000515 | 0.00147 | 1 | 05/27/2024 23:16 | WG2293465 |
| Naphthalene | U | J3 | 0.00718 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| n-Propylbenzene | U | | 0.00140 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| Styrene | U | | 0.000337 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00139 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00102 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00111 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Tetrachloroethene | U | | 0.00132 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Toluene | 0.00384 | J | 0.00191 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.0108 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00647 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00136 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000878 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Trichloroethene | 0.00771 | | 0.000859 | 0.00147 | 1 | 05/27/2024 23:16 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00122 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00238 | 0.0184 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00232 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00232 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00294 | 0.00736 | 1 | 05/27/2024 23:16 | WG2293465 |
| Vinyl chloride | U | | 0.00171 | 0.00368 | 1 | 05/27/2024 23:16 | WG2293465 |
| Xylenes, Total | 0.00162 | J | 0.00129 | 0.00956 | 1 | 05/27/2024 23:16 | WG2293465 |
| *(S) Toluene-d8* | *99.0* | | | *75.0-131* | | *05/27/2024 23:16* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/27/2024 23:16* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *91.1* | | | *70.0-130* | | *05/27/2024 23:16* | WG2293465 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 3.83 | J | 0.901 | 4.91 | 1 | 05/30/2024 18:28 | WG2295238 |
| C22-C32 Hydrocarbons | 18.9 | | 1.63 | 4.91 | 1 | 05/30/2024 18:28 | WG2295238 |
| C32-C40 Hydrocarbons | 19.4 | | 1.63 | 4.91 | 1 | 05/30/2024 18:28 | WG2295238 |
| *(S) o-Terphenyl* | *38.6* | | | *18.0-148* | | *05/30/2024 18:28* | WG2295238 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 89.7 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.239 | | 0.0201 | 0.0446 | 1 | 05/27/2024 13:32 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.607 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| Arsenic | 3.92 | | 0.578 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| Barium | 337 | | 0.0950 | 0.558 | 1 | 06/01/2024 18:48 | WG2293711 |
| Beryllium | 0.288 | | 0.0351 | 0.223 | 1 | 06/01/2024 18:48 | WG2293711 |
| Cadmium | 0.481 | J | 0.0525 | 0.558 | 1 | 06/01/2024 18:48 | WG2293711 |
| Chromium | 27.3 | | 0.148 | 1.12 | 1 | 06/01/2024 18:48 | WG2293711 |
| Cobalt | 10.3 | | 0.0905 | 1.12 | 1 | 06/01/2024 18:48 | WG2293711 |
| Copper | 59.4 | | 0.446 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| Lead | 131 | | 0.232 | 0.558 | 1 | 06/01/2024 18:48 | WG2293711 |
| Molybdenum | 0.133 | J | 0.122 | 0.558 | 1 | 06/01/2024 18:48 | WG2293711 |
| Nickel | 31.3 | | 0.147 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| Selenium | U | | 0.852 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| Silver | 0.544 | J | 0.142 | 1.12 | 1 | 06/01/2024 18:48 | WG2293711 |
| Thallium | 1.49 | J | 0.439 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| Vanadium | 33.7 | | 0.564 | 2.23 | 1 | 06/01/2024 18:48 | WG2293711 |
| Zinc | 160 | | 0.928 | 5.58 | 1 | 06/01/2024 18:48 | WG2293711 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0132 | 0.0379 | 1 | 05/28/2024 12:04 | WG2294060 |
| PCB 1221 | U | | 0.0132 | 0.0379 | 1 | 05/28/2024 12:04 | WG2294060 |
| PCB 1232 | U | | 0.0132 | 0.0379 | 1 | 05/28/2024 12:04 | WG2294060 |
| PCB 1242 | U | | 0.0132 | 0.0379 | 1 | 05/28/2024 12:04 | WG2294060 |
| PCB 1248 | U | | 0.00823 | 0.0190 | 1 | 05/28/2024 12:04 | WG2294060 |
| PCB 1254 | U | | 0.00823 | 0.0190 | 1 | 05/28/2024 12:04 | WG2294060 |
| PCB 1260 | 0.0352 | | 0.00823 | 0.0190 | 1 | 05/28/2024 12:04 | WG2294060 |
| *(S) Decachlorobiphenyl* | *50.8* | | | *10.0-135* | | *05/28/2024 12:04* | WG2294060 |
| *(S) Tetrachloro-m-xylene* | *59.6* | | | *10.0-139* | | *05/28/2024 12:04* | WG2294060 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0601 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Acenaphthylene | U | | 0.0523 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Anthracene | U | | 0.0661 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Benzidine | U | | 0.698 | 18.6 | 10 | 05/31/2024 05:15 | WG2294807 |
| Benzo(a)anthracene | 0.0883 | J | 0.0655 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Benzo(b)fluoranthene | 0.155 | J | 0.0693 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0660 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0679 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Benzo(a)pyrene | 0.113 | J | 0.0690 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.112 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.123 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.161 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.130 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0652 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.129 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Chrysene | 0.104 | J | 0.0738 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.103 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.110 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.113 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.111 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.137 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.107 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.122 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Fluoranthene | 0.0936 | J | 0.0670 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Fluorene | U | | 0.0605 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Hexachlorobenzene | U | | 0.132 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.125 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.195 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Hexachloroethane | U | | 0.146 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.105 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Isophorone | U | | 0.114 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Naphthalene | U | | 0.0932 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Nitrobenzene | U | | 0.129 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.551 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.281 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.124 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Phenanthrene | U | | 0.0737 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.116 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.471 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.127 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Diethyl phthalate | U | | 0.123 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Dimethyl phthalate | U | | 0.787 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.251 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Pyrene | 0.108 | J | 0.0723 | 0.371 | 10 | 05/31/2024 05:15 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.116 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.120 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2-Chlorophenol | U | | 0.123 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.108 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0970 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.842 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.869 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2-Nitrophenol | U | | 0.133 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 4-Nitrophenol | U | | 0.116 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Pentachlorophenol | U | | 0.0999 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| Phenol | U | | 0.149 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.119 | 3.71 | 10 | 05/31/2024 05:15 | WG2294807 |
| *(S) 2-Fluorophenol* | *90.3* | | | *12.0-120* | | *05/31/2024 05:15* | WG2294807 |
| *(S) Phenol-d5* | *85.0* | | | *10.0-120* | | *05/31/2024 05:15* | WG2294807 |
| *(S) Nitrobenzene-d5* | *72.4* | | | *10.0-122* | | *05/31/2024 05:15* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *83.3* | | | *15.0-120* | | *05/31/2024 05:15* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *82.9* | | | *10.0-127* | | *05/31/2024 05:15* | WG2294807 |
| *(S) p-Terphenyl-d14* | *88.8* | | | *10.0-120* | | *05/31/2024 05:15* | WG2294807 |

**Sample Narrative:**

L1738627-06 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 89.2 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.383 | | 0.0202 | 0.0448 | 1 | 05/27/2024 13:35 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.610 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| Arsenic | 5.06 | | 0.580 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| Barium | 217 | | 0.0955 | 0.560 | 1 | 06/01/2024 18:50 | WG2293711 |
| Beryllium | 0.432 | | 0.0353 | 0.224 | 1 | 06/01/2024 18:50 | WG2293711 |
| Cadmium | 3.14 | | 0.0528 | 0.560 | 1 | 06/01/2024 18:50 | WG2293711 |
| Chromium | 36.4 | | 0.149 | 1.12 | 1 | 06/01/2024 18:50 | WG2293711 |
| Cobalt | 9.97 | | 0.0909 | 1.12 | 1 | 06/01/2024 18:50 | WG2293711 |
| Copper | 246 | | 0.448 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| Lead | 625 | | 0.233 | 0.560 | 1 | 06/01/2024 18:50 | WG2293711 |
| Molybdenum | 1.35 | | 0.122 | 0.560 | 1 | 06/01/2024 18:50 | WG2293711 |
| Nickel | 55.0 | | 0.148 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| Selenium | U | | 0.856 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| Silver | 0.818 | J | 0.142 | 1.12 | 1 | 06/01/2024 18:50 | WG2293711 |
| Thallium | 2.12 | J | 0.441 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| Vanadium | 29.5 | | 0.567 | 2.24 | 1 | 06/01/2024 18:50 | WG2293711 |
| Zinc | 414 | | 0.932 | 5.60 | 1 | 06/01/2024 18:50 | WG2293711 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0455 | 0.0624 | 1 | 05/27/2024 23:36 | WG2293465 |
| Acrylonitrile | U | | 0.00450 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| Benzene | U | | 0.000582 | 0.00125 | 1 | 05/27/2024 23:36 | WG2293465 |
| Bromobenzene | U | | 0.00112 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| Bromodichloromethane | U | | 0.000904 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Bromoform | U | | 0.00146 | 0.0312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Bromomethane | U | | 0.00246 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| n-Butylbenzene | U | | 0.00655 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| sec-Butylbenzene | U | | 0.00359 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| tert-Butylbenzene | U | | 0.00243 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| Carbon tetrachloride | U | | 0.00112 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| Chlorobenzene | U | | 0.000262 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Chlorodibromomethane | U | | 0.000763 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Chloroethane | U | | 0.00212 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| Chloroform | U | | 0.00128 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Chloromethane | U | | 0.00542 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00108 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000561 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00486 | 0.0312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.000808 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Dibromomethane | U | | 0.000935 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000530 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000748 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.000873 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00201 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000612 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.000809 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.000756 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| cis-1,2-Dichloroethene | U | | 0.000915 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| trans-1,2-Dichloroethene | U | | 0.00130 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00177 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00101 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000625 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.000944 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00142 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00172 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Di-isopropyl ether | U | | 0.000511 | 0.00125 | 1 | 05/27/2024 23:36 | WG2293465 |
| Ethylbenzene | U | | 0.000919 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00748 | 0.0312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Isopropylbenzene | U | | 0.000530 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00318 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.0792 | 0.125 | 1 | 05/27/2024 23:36 | WG2293465 |
| Methylene Chloride | U | | 0.00828 | 0.0312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00284 | 0.0312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Methyl tert-butyl ether | U | | 0.000436 | 0.00125 | 1 | 05/27/2024 23:36 | WG2293465 |
| Naphthalene | U | J3 | 0.00609 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| n-Propylbenzene | U | | 0.00118 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| Styrene | U | | 0.000286 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00118 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000867 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000940 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Tetrachloroethene | U | | 0.00112 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Toluene | U | | 0.00162 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.00914 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00549 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00115 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000744 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Trichloroethene | U | | 0.000728 | 0.00125 | 1 | 05/27/2024 23:36 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00103 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00202 | 0.0156 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00197 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00197 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00249 | 0.00624 | 1 | 05/27/2024 23:36 | WG2293465 |
| Vinyl chloride | U | | 0.00145 | 0.00312 | 1 | 05/27/2024 23:36 | WG2293465 |
| Xylenes, Total | 0.00124 | J | 0.00110 | 0.00811 | 1 | 05/27/2024 23:36 | WG2293465 |
| *(S) Toluene-d8* | *98.7* | | | *75.0-131* | | *05/27/2024 23:36* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/27/2024 23:36* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *89.9* | | | *70.0-130* | | *05/27/2024 23:36* | WG2293465 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0132 | 0.0381 | 1 | 06/06/2024 00:52 | WG2298713 |
| PCB 1221 | U | | 0.0132 | 0.0381 | 1 | 06/06/2024 00:52 | WG2298713 |
| PCB 1232 | U | | 0.0132 | 0.0381 | 1 | 06/06/2024 00:52 | WG2298713 |
| PCB 1242 | U | | 0.0132 | 0.0381 | 1 | 06/06/2024 00:52 | WG2298713 |
| PCB 1248 | U | | 0.00827 | 0.0190 | 1 | 06/06/2024 00:52 | WG2298713 |
| PCB 1254 | U | | 0.00827 | 0.0190 | 1 | 06/06/2024 00:52 | WG2298713 |
| PCB 1260 | 0.133 | | 0.00827 | 0.0190 | 1 | 06/06/2024 00:52 | WG2298713 |
| *(S) Decachlorobiphenyl* | *40.7* | | | *10.0-135* | | *06/06/2024 00:52* | WG2298713 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *52.2* | | | *10.0-139* | | *06/06/2024 00:52* | WG2298713 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0121 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Acenaphthylene | U | | 0.0105 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Anthracene | U | | 0.0133 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Benzidine | U | | 0.140 | 3.74 | 2 | 05/31/2024 02:24 | WG2294807 |
| Benzo(a)anthracene | 0.0317 | J | 0.0131 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Benzo(b)fluoranthene | 0.0601 | J | 0.0139 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Benzo(k)fluoranthene | 0.0187 | J | 0.0132 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Benzo(g,h,i)perylene | 0.0372 | J | 0.0137 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Benzo(a)pyrene | 0.0396 | J | 0.0139 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0224 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0247 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0323 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0262 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0131 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0260 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Chrysene | 0.0471 | J | 0.0148 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0207 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0221 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0226 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0222 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0276 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0214 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0244 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Fluoranthene | 0.0419 | J | 0.0134 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Fluorene | U | | 0.0121 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Hexachlorobenzene | U | | 0.0264 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0251 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0392 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Hexachloroethane | U | | 0.0294 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | 0.0369 | J | 0.0211 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Isophorone | U | | 0.0229 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Naphthalene | U | | 0.0187 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Nitrobenzene | U | | 0.0260 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.111 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.0565 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0249 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Phenanthrene | 0.0251 | J | 0.0148 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Benzylbutyl phthalate | 0.0337 | J | 0.0233 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0946 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Di-n-butyl phthalate | 0.0529 | J | 0.0255 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Diethyl phthalate | U | | 0.0247 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Dimethyl phthalate | U | | 0.158 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0504 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Pyrene | 0.0478 | J | 0.0146 | 0.0746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0233 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.0242 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2-Chlorophenol | U | | 0.0247 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0217 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0195 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.169 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.175 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0267 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 4-Nitrophenol | U | | 0.0233 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Pentachlorophenol | U | | 0.0201 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| Phenol | U | | 0.0300 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0240 | 0.746 | 2 | 05/31/2024 02:24 | WG2294807 |
| *(S) 2-Fluorophenol* | *86.6* | | | *12.0-120* | | *05/31/2024 02:24* | WG2294807 |
| *(S) Phenol-d5* | *84.0* | | | *10.0-120* | | *05/31/2024 02:24* | WG2294807 |
| *(S) Nitrobenzene-d5* | *66.8* | | | *10.0-122* | | *05/31/2024 02:24* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *84.0* | | | *15.0-120* | | *05/31/2024 02:24* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *90.6* | | | *10.0-127* | | *05/31/2024 02:24* | WG2294807 |
| *(S) p-Terphenyl-d14* | *91.8* | | | *10.0-120* | | *05/31/2024 02:24* | WG2294807 |

**Sample Narrative:**

L1738627-07 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.4 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.151 | | 0.0239 | 0.0530 | 1 | 05/27/2024 13:37 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.721 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| Arsenic | 4.59 | | 0.687 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| Barium | 122 | | 0.113 | 0.663 | 1 | 06/01/2024 18:51 | WG2293711 |
| Beryllium | 0.267 | | 0.0418 | 0.265 | 1 | 06/01/2024 18:51 | WG2293711 |
| Cadmium | 0.200 | J | 0.0624 | 0.663 | 1 | 06/01/2024 18:51 | WG2293711 |
| Chromium | 30.5 | | 0.176 | 1.33 | 1 | 06/01/2024 18:51 | WG2293711 |
| Cobalt | 9.80 | | 0.107 | 1.33 | 1 | 06/01/2024 18:51 | WG2293711 |
| Copper | 68.2 | | 0.530 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| Lead | 46.2 | | 0.276 | 0.663 | 1 | 06/01/2024 18:51 | WG2293711 |
| Molybdenum | U | | 0.144 | 0.663 | 1 | 06/01/2024 18:51 | WG2293711 |
| Nickel | 45.0 | | 0.175 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| Selenium | U | | 1.01 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| Silver | 0.369 | J | 0.168 | 1.33 | 1 | 06/01/2024 18:51 | WG2293711 |
| Thallium | 0.720 | J | 0.522 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| Vanadium | 22.9 | | 0.671 | 2.65 | 1 | 06/01/2024 18:51 | WG2293711 |
| Zinc | 70.5 | | 1.10 | 6.63 | 1 | 06/01/2024 18:51 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.54 | B J | 1.46 | 4.40 | 25 | 05/26/2024 03:01 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.9* | | | *77.0-120* | | *05/26/2024 03:01* | WG2293479 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0643 | 0.0880 | 1 | 05/27/2024 23:55 | WG2293465 |
| Acrylonitrile | U | | 0.00636 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| Benzene | U | | 0.000822 | 0.00176 | 1 | 05/27/2024 23:55 | WG2293465 |
| Bromobenzene | U | | 0.00158 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| Bromodichloromethane | U | | 0.00128 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Bromoform | U | | 0.00206 | 0.0440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Bromomethane | U | | 0.00347 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| n-Butylbenzene | U | | 0.00924 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| sec-Butylbenzene | U | | 0.00507 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| tert-Butylbenzene | U | | 0.00343 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| Carbon tetrachloride | U | | 0.00158 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| Chlorobenzene | U | | 0.000370 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Chlorodibromomethane | U | | 0.00108 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Chloroethane | U | | 0.00299 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| Chloroform | U | | 0.00181 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Chloromethane | U | | 0.00766 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00152 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000792 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00687 | 0.0440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.00114 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Dibromomethane | U | | 0.00132 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000748 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.00106 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.00123 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| Dichlorodifluoromethane | U | | 0.00283 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000865 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.00114 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.00107 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| cis-1,2-Dichloroethene | U | | 0.00129 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| trans-1,2-Dichloroethene | U | | 0.00183 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00250 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00142 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000882 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.00133 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00201 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00243 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Di-isopropyl ether | U | | 0.000722 | 0.00176 | 1 | 05/27/2024 23:55 | WG2293465 |
| Ethylbenzene | U | | 0.00130 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.0106 | 0.0440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Isopropylbenzene | U | | 0.000748 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00449 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.112 | 0.176 | 1 | 05/27/2024 23:55 | WG2293465 |
| Methylene Chloride | U | | 0.0117 | 0.0440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00401 | 0.0440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Methyl tert-butyl ether | U | | 0.000616 | 0.00176 | 1 | 05/27/2024 23:55 | WG2293465 |
| Naphthalene | U | J3 | 0.00859 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| n-Propylbenzene | U | | 0.00167 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| Styrene | U | | 0.000403 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00167 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00122 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00133 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Tetrachloroethene | U | | 0.00158 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Toluene | U | | 0.00229 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.0129 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00775 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00163 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.00105 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Trichloroethene | U | | 0.00103 | 0.00176 | 1 | 05/27/2024 23:55 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00146 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00285 | 0.0220 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00278 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00278 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00352 | 0.00880 | 1 | 05/27/2024 23:55 | WG2293465 |
| Vinyl chloride | U | | 0.00204 | 0.00440 | 1 | 05/27/2024 23:55 | WG2293465 |
| Xylenes, Total | U | | 0.00155 | 0.0114 | 1 | 05/27/2024 23:55 | WG2293465 |
| *(S) Toluene-d8* | *99.2* | | | *75.0-131* | | *05/27/2024 23:55* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/27/2024 23:55* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *92.4* | | | *70.0-130* | | *05/27/2024 23:55* | WG2293465 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.95 | J | 0.972 | 5.30 | 1 | 05/31/2024 09:58 | WG2295238 |
| C22-C32 Hydrocarbons | 9.84 | | 1.76 | 5.30 | 1 | 05/31/2024 09:58 | WG2295238 |
| C32-C40 Hydrocarbons | 5.67 | | 1.76 | 5.30 | 1 | 05/31/2024 09:58 | WG2295238 |
| *(S) o-Terphenyl* | *55.7* | | | *18.0-148* | | *05/31/2024 09:58* | WG2295238 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0156 | 0.0451 | 1 | 07/01/2024 22:59 | WG2314791 |
| PCB 1221 | U | | 0.0156 | 0.0451 | 1 | 07/01/2024 22:59 | WG2314791 |
| PCB 1232 | U | | 0.0156 | 0.0451 | 1 | 07/01/2024 22:59 | WG2314791 |
| PCB 1242 | U | | 0.0156 | 0.0451 | 1 | 07/01/2024 22:59 | WG2314791 |
| PCB 1248 | U | | 0.00978 | 0.0225 | 1 | 07/01/2024 22:59 | WG2314791 |
| PCB 1254 | U | | 0.00978 | 0.0225 | 1 | 07/01/2024 22:59 | WG2314791 |
| PCB 1260 | U | | 0.00978 | 0.0225 | 1 | 07/01/2024 22:59 | WG2314791 |
| *(S) Decachlorobiphenyl* | *53.9* | | | *10.0-135* | | *07/01/2024 22:59* | WG2314791 |
| *(S) Tetrachloro-m-xylene* | *82.3* | | | *10.0-139* | | *07/01/2024 22:59* | WG2314791 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00714 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Acenaphthylene | U | | 0.00622 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Anthracene | U | | 0.00786 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Benzidine | U | | 0.0830 | 2.21 | 1 | 05/30/2024 23:08 | WG2294807 |
| Benzo(a)anthracene | U | | 0.00778 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.00823 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.00785 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.00807 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Benzo(a)pyrene | U | | 0.00820 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0133 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0146 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0191 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0155 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.00775 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0154 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Chrysene | U | | 0.00877 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0122 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0131 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0134 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0131 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0163 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0127 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0144 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Fluoranthene | U | | 0.00797 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Fluorene | U | | 0.00718 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Hexachlorobenzene | U | | 0.0156 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0148 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0232 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Hexachloroethane | U | | 0.0174 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0125 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Isophorone | U | | 0.0135 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Naphthalene | U | | 0.0111 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Nitrobenzene | U | | 0.0154 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.0655 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | U | | 0.0334 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0147 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Phenanthrene | U | | 0.00876 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.0138 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0559 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.0151 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Diethyl phthalate | U | | 0.0146 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Dimethyl phthalate | U | | 0.0936 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0298 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Pyrene | U | | 0.00859 | 0.0441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0138 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.0143 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2-Chlorophenol | U | | 0.0146 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0129 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0115 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.100 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.103 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2-Nitrophenol | U | | 0.0158 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 4-Nitrophenol | U | | 0.0138 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Pentachlorophenol | U | | 0.0119 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| Phenol | U | | 0.0178 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0142 | 0.441 | 1 | 05/30/2024 23:08 | WG2294807 |
| *(S) 2-Fluorophenol* | *79.7* | | | *12.0-120* | | *05/30/2024 23:08* | WG2294807 |
| *(S) Phenol-d5* | *74.4* | | | *10.0-120* | | *05/30/2024 23:08* | WG2294807 |
| *(S) Nitrobenzene-d5* | *60.6* | | | *10.0-122* | | *05/30/2024 23:08* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *70.7* | | | *15.0-120* | | *05/30/2024 23:08* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *77.4* | | | *10.0-127* | | *05/30/2024 23:08* | WG2294807 |
| *(S) p-Terphenyl-d14* | *79.2* | | | *10.0-120* | | *05/30/2024 23:08* | WG2294807 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 72.5 | | 1 | 06/10/2024 16:19 | WG2302291 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 6.14 | B | 1.49 | 4.50 | 25 | 06/02/2024 15:46 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.1* | | | *77.0-120* | | *06/02/2024 15:46* | WG2297113 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 80.3 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.79 | B J | 1.27 | 3.82 | 25 | 05/26/2024 03:20 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.7* | | | *77.0-120* | | *05/26/2024 03:20* | WG2293479 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0558 | 0.0764 | 1 | 05/28/2024 00:14 | WG2293465 |
| Acrylonitrile | U | | 0.00552 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| Benzene | U | | 0.000714 | 0.00153 | 1 | 05/28/2024 00:14 | WG2293465 |
| Bromobenzene | U | | 0.00138 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| Bromodichloromethane | U | | 0.00111 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Bromoform | U | | 0.00179 | 0.0382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Bromomethane | U | | 0.00301 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| n-Butylbenzene | U | | 0.00803 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| sec-Butylbenzene | U | | 0.00440 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| tert-Butylbenzene | U | | 0.00298 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| Carbon tetrachloride | U | | 0.00137 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| Chlorobenzene | U | | 0.000321 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Chlorodibromomethane | U | | 0.000936 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Chloroethane | U | | 0.00260 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| Chloroform | U | | 0.00157 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Chloromethane | U | | 0.00665 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000688 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00596 | 0.0382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.000991 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Dibromomethane | U | | 0.00115 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000650 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000917 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| Dichlorodifluoromethane | U | | 0.00246 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000751 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.000992 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.000927 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| trans-1,2-Dichloroethene | U | | 0.00159 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00217 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00124 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000766 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.00116 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00174 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00211 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Di-isopropyl ether | U | | 0.000627 | 0.00153 | 1 | 05/28/2024 00:14 | WG2293465 |
| Ethylbenzene | U | | 0.00113 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00917 | 0.0382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Isopropylbenzene | U | | 0.000650 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00390 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.0971 | 0.153 | 1 | 05/28/2024 00:14 | WG2293465 |
| Methylene Chloride | U | | 0.0102 | 0.0382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00349 | 0.0382 | 1 | 05/28/2024 00:14 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000535 | 0.00153 | 1 | 05/28/2024 00:14 | WG2293465 |
| Naphthalene | U | J3 | 0.00746 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| n-Propylbenzene | U | | 0.00145 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| Styrene | U | | 0.000350 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00145 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Tetrachloroethene | U | | 0.00137 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Toluene | 0.00269 | J | 0.00199 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00673 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000913 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Trichloroethene | U | | 0.000893 | 0.00153 | 1 | 05/28/2024 00:14 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00248 | 0.0191 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00242 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00242 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00306 | 0.00764 | 1 | 05/28/2024 00:14 | WG2293465 |
| Vinyl chloride | U | | 0.00177 | 0.00382 | 1 | 05/28/2024 00:14 | WG2293465 |
| Xylenes, Total | U | | 0.00135 | 0.00994 | 1 | 05/28/2024 00:14 | WG2293465 |
| *(S) Toluene-d8* | *99.2* | | | *75.0-131* | | *05/28/2024 00:14* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/28/2024 00:14* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *92.1* | | | *70.0-130* | | *05/28/2024 00:14* | WG2293465 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.54 | J | 0.913 | 4.98 | 1 | 05/30/2024 17:01 | WG2295238 |
| C22-C32 Hydrocarbons | 3.46 | J | 1.66 | 4.98 | 1 | 05/30/2024 17:01 | WG2295238 |
| C32-C40 Hydrocarbons | 3.39 | J | 1.66 | 4.98 | 1 | 05/30/2024 17:01 | WG2295238 |
| *(S) o-Terphenyl* | *44.0* | | | *18.0-148* | | *05/30/2024 17:01* | WG2295238 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 92.6 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.205 | | 0.0194 | 0.0432 | 1 | 05/27/2024 13:40 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.587 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| Arsenic | 8.47 | | 0.559 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| Barium | 198 | | 0.0920 | 0.540 | 1 | 06/01/2024 18:53 | WG2293711 |
| Beryllium | 0.217 | | 0.0340 | 0.216 | 1 | 06/01/2024 18:53 | WG2293711 |
| Cadmium | 2.30 | | 0.0509 | 0.540 | 1 | 06/01/2024 18:53 | WG2293711 |
| Chromium | 33.5 | | 0.144 | 1.08 | 1 | 06/01/2024 18:53 | WG2293711 |
| Cobalt | 6.82 | | 0.0876 | 1.08 | 1 | 06/01/2024 18:53 | WG2293711 |
| Copper | 373 | | 0.432 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| Lead | 361 | | 0.225 | 0.540 | 1 | 06/01/2024 18:53 | WG2293711 |
| Molybdenum | 1.10 | | 0.118 | 0.540 | 1 | 06/01/2024 18:53 | WG2293711 |
| Nickel | 59.8 | | 0.143 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| Selenium | U | | 0.825 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| Silver | 1.01 | J | 0.137 | 1.08 | 1 | 06/01/2024 18:53 | WG2293711 |
| Thallium | 1.60 | J | 0.425 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| Vanadium | 22.9 | | 0.546 | 2.16 | 1 | 06/01/2024 18:53 | WG2293711 |
| Zinc | 6260 | | 4.49 | 27.0 | 5 | 06/02/2024 11:56 | WG2293711 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0127 | 0.0367 | 1 | 05/28/2024 12:13 | WG2294060 |
| PCB 1221 | U | | 0.0127 | 0.0367 | 1 | 05/28/2024 12:13 | WG2294060 |
| PCB 1232 | U | | 0.0127 | 0.0367 | 1 | 05/28/2024 12:13 | WG2294060 |
| PCB 1242 | U | | 0.0127 | 0.0367 | 1 | 05/28/2024 12:13 | WG2294060 |
| PCB 1248 | U | | 0.00797 | 0.0184 | 1 | 05/28/2024 12:13 | WG2294060 |
| PCB 1254 | U | | 0.00797 | 0.0184 | 1 | 05/28/2024 12:13 | WG2294060 |
| PCB 1260 | 0.147 | | 0.00797 | 0.0184 | 1 | 05/28/2024 12:13 | WG2294060 |
| *(S) Decachlorobiphenyl* | *54.4* | | | *10.0-135* | | *05/28/2024 12:13* | WG2294060 |
| *(S) Tetrachloro-m-xylene* | *57.9* | | | *10.0-139* | | *05/28/2024 12:13* | WG2294060 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0117 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Acenaphthylene | U | | 0.0101 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Anthracene | U | | 0.0129 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Benzidine | U | | 0.135 | 3.61 | 2 | 05/31/2024 01:35 | WG2294807 |
| Benzo(a)anthracene | 0.0275 | J | 0.0126 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Benzo(b)fluoranthene | 0.0630 | J | 0.0134 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Benzo(k)fluoranthene | 0.0188 | J | 0.0127 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Benzo(g,h,i)perylene | 0.0366 | J | 0.0132 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Benzo(a)pyrene | 0.0356 | J | 0.0134 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0216 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0238 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0311 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0253 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0126 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0251 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Chrysene | 0.0346 | J | 0.0143 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0200 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0213 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0218 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0214 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0266 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0206 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0235 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Fluoranthene | 0.0484 | J | 0.0130 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Fluorene | U | | 0.0117 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Hexachlorobenzene | U | | 0.0255 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0242 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0378 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Hexachloroethane | U | | 0.0283 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | 0.0422 | J | 0.0203 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Isophorone | U | | 0.0220 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Naphthalene | U | | 0.0180 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Nitrobenzene | U | | 0.0251 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.107 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.0544 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0240 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Phenanthrene | 0.0255 | J | 0.0143 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Benzylbutyl phthalate | 0.402 | J | 0.0225 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | 0.140 | J | 0.0911 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Di-n-butyl phthalate | 0.0326 | J | 0.0246 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Diethyl phthalate | U | | 0.0238 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Dimethyl phthalate | U | | 0.152 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0486 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Pyrene | 0.0514 | J | 0.0140 | 0.0719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0225 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.0233 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2-Chlorophenol | U | | 0.0238 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0209 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0188 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.163 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.168 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2-Nitrophenol | U | | 0.0257 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 4-Nitrophenol | U | | 0.0225 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Pentachlorophenol | U | | 0.0193 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| Phenol | U | | 0.0289 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0231 | 0.719 | 2 | 05/31/2024 01:35 | WG2294807 |
| *(S) 2-Fluorophenol* | *84.2* | | | *12.0-120* | | *05/31/2024 01:35* | WG2294807 |
| *(S) Phenol-d5* | *85.7* | | | *10.0-120* | | *05/31/2024 01:35* | WG2294807 |
| *(S) Nitrobenzene-d5* | *71.7* | | | *10.0-122* | | *05/31/2024 01:35* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *86.6* | | | *15.0-120* | | *05/31/2024 01:35* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *62.9* | | | *10.0-127* | | *05/31/2024 01:35* | WG2294807 |
| *(S) p-Terphenyl-d14* | *94.1* | | | *10.0-120* | | *05/31/2024 01:35* | WG2294807 |

**Sample Narrative:**

L1738627-11 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.3 | | 1 | 05/27/2024 07:43 | WG2293517 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.286 | | 0.0197 | 0.0438 | 1 | 05/27/2024 13:42 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.596 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| Arsenic | 3.84 | | 0.567 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| Barium | 266 | | 0.0933 | 0.548 | 1 | 06/01/2024 18:55 | WG2293711 |
| Beryllium | 0.312 | | 0.0345 | 0.219 | 1 | 06/01/2024 18:55 | WG2293711 |
| Cadmium | 1.17 | | 0.0516 | 0.548 | 1 | 06/01/2024 18:55 | WG2293711 |
| Chromium | 28.7 | | 0.146 | 1.10 | 1 | 06/01/2024 18:55 | WG2293711 |
| Cobalt | 12.9 | | 0.0888 | 1.10 | 1 | 06/01/2024 18:55 | WG2293711 |
| Copper | 209 | | 0.438 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| Lead | 179 | | 0.228 | 0.548 | 1 | 06/01/2024 18:55 | WG2293711 |
| Molybdenum | 0.197 | J | 0.119 | 0.548 | 1 | 06/01/2024 18:55 | WG2293711 |
| Nickel | 53.5 | | 0.145 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| Selenium | U | | 0.837 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| Silver | 0.796 | J | 0.139 | 1.10 | 1 | 06/01/2024 18:55 | WG2293711 |
| Thallium | 1.60 | J | 0.432 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| Vanadium | 31.4 | | 0.554 | 2.19 | 1 | 06/01/2024 18:55 | WG2293711 |
| Zinc | 384 | | 0.911 | 5.48 | 1 | 06/01/2024 18:55 | WG2293711 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0447 | 0.0613 | 1 | 05/28/2024 00:33 | WG2293465 |
| Acrylonitrile | U | | 0.00442 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| Benzene | U | | 0.000572 | 0.00123 | 1 | 05/28/2024 00:33 | WG2293465 |
| Bromobenzene | U | | 0.00110 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| Bromodichloromethane | U | | 0.000889 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Bromoform | U | | 0.00143 | 0.0306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Bromomethane | U | | 0.00241 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| n-Butylbenzene | U | | 0.00643 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| sec-Butylbenzene | U | | 0.00353 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| tert-Butylbenzene | U | | 0.00239 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| Carbon tetrachloride | U | | 0.00110 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| Chlorobenzene | U | | 0.000257 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Chlorodibromomethane | U | | 0.000750 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Chloroethane | U | | 0.00208 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| Chloroform | U | | 0.00126 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Chloromethane | U | | 0.00533 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00106 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000552 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00478 | 0.0306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.000794 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Dibromomethane | U | | 0.000919 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000521 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000735 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.000858 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00197 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000602 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.000795 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.000743 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| cis-1,2-Dichloroethene | U | | 0.000900 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| trans-1,2-Dichloroethene | U | | 0.00127 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00174 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.000992 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000614 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.000928 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00140 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00169 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Di-isopropyl ether | U | | 0.000503 | 0.00123 | 1 | 05/28/2024 00:33 | WG2293465 |
| Ethylbenzene | U | | 0.000903 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00735 | 0.0306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Isopropylbenzene | U | | 0.000521 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00313 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.0778 | 0.123 | 1 | 05/28/2024 00:33 | WG2293465 |
| Methylene Chloride | U | | 0.00814 | 0.0306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00279 | 0.0306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Methyl tert-butyl ether | U | | 0.000429 | 0.00123 | 1 | 05/28/2024 00:33 | WG2293465 |
| Naphthalene | U | J3 | 0.00598 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| n-Propylbenzene | U | | 0.00116 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| Styrene | U | | 0.000281 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00116 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000852 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000924 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Tetrachloroethene | U | | 0.00110 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Toluene | U | | 0.00159 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.00898 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00539 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00113 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000732 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Trichloroethene | U | | 0.000716 | 0.00123 | 1 | 05/28/2024 00:33 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00101 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00199 | 0.0153 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00194 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00194 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00245 | 0.00613 | 1 | 05/28/2024 00:33 | WG2293465 |
| Vinyl chloride | U | | 0.00142 | 0.00306 | 1 | 05/28/2024 00:33 | WG2293465 |
| Xylenes, Total | U | | 0.00108 | 0.00797 | 1 | 05/28/2024 00:33 | WG2293465 |
| *(S) Toluene-d8* | *99.0* | | | *75.0-131* | | *05/28/2024 00:33* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/28/2024 00:33* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *96.9* | | | *70.0-130* | | *05/28/2024 00:33* | WG2293465 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.129 | 0.372 | 10 | 06/06/2024 01:01 | WG2298713 |
| PCB 1221 | U | | 0.129 | 0.372 | 10 | 06/06/2024 01:01 | WG2298713 |
| PCB 1232 | U | | 0.129 | 0.372 | 10 | 06/06/2024 01:01 | WG2298713 |
| PCB 1242 | U | | 0.129 | 0.372 | 10 | 06/06/2024 01:01 | WG2298713 |
| PCB 1248 | U | | 0.0808 | 0.186 | 10 | 06/06/2024 01:01 | WG2298713 |
| PCB 1254 | U | | 0.0808 | 0.186 | 10 | 06/06/2024 01:01 | WG2298713 |
| PCB 1260 | U | | 0.0808 | 0.186 | 10 | 06/06/2024 01:01 | WG2298713 |
| *(S) Decachlorobiphenyl* | *82.1* | | | *10.0-135* | | *06/06/2024 01:01* | WG2298713 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *73.8* | | | *10.0-139* | | *06/06/2024 01:01* | WG2298713 |

**Sample Narrative:**

L1738627-12 WG2298713: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0590 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Acenaphthylene | U | | 0.0514 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Anthracene | U | | 0.0649 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Benzidine | U | | 0.686 | 18.3 | 10 | 05/31/2024 10:32 | WG2294807 |
| Benzo(a)anthracene | U | | 0.0643 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.0680 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0648 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0667 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Benzo(a)pyrene | U | | 0.0678 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.110 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.120 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.158 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.128 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0641 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.127 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Chrysene | U | | 0.0725 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.101 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.108 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.111 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.109 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.135 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.105 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.119 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Fluoranthene | U | | 0.0658 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Fluorene | U | | 0.0594 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Hexachlorobenzene | U | | 0.129 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.123 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.192 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Hexachloroethane | U | | 0.143 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.103 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Isophorone | U | | 0.112 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Naphthalene | U | | 0.0916 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Nitrobenzene | U | | 0.127 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.541 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.276 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.122 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Phenanthrene | U | | 0.0724 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.114 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.462 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.125 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Diethyl phthalate | U | | 0.120 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Dimethyl phthalate | U | | 0.773 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.246 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Pyrene | U | | 0.0710 | 0.365 | 10 | 05/31/2024 10:32 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.114 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.118 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2-Chlorophenol | U | | 0.120 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.106 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0953 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.827 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.853 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2-Nitrophenol | U | | 0.130 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 4-Nitrophenol | U | | 0.114 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Pentachlorophenol | U | | 0.0981 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| Phenol | U | | 0.147 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.117 | 3.65 | 10 | 05/31/2024 10:32 | WG2294807 |
| *(S) 2-Fluorophenol* | *100* | | | *12.0-120* | | *05/31/2024 10:32* | WG2294807 |
| *(S) Phenol-d5* | *88.9* | | | *10.0-120* | | *05/31/2024 10:32* | WG2294807 |
| *(S) Nitrobenzene-d5* | *71.1* | | | *10.0-122* | | *05/31/2024 10:32* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *90.6* | | | *15.0-120* | | *05/31/2024 10:32* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *74.5* | | | *10.0-127* | | *05/31/2024 10:32* | WG2294807 |
| *(S) p-Terphenyl-d14* | *93.6* | | | *10.0-120* | | *05/31/2024 10:32* | WG2294807 |

**Sample Narrative:**

L1738627-12 WG2294807: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.7 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.568 | | 0.0203 | 0.0451 | 1 | 05/27/2024 13:50 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.613 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| Arsenic | 4.54 | | 0.584 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| Barium | 213 | | 0.0961 | 0.564 | 1 | 06/01/2024 18:56 | WG2293711 |
| Beryllium | 0.153 | J | 0.0355 | 0.225 | 1 | 06/01/2024 18:56 | WG2293711 |
| Cadmium | 0.175 | J | 0.0531 | 0.564 | 1 | 06/01/2024 18:56 | WG2293711 |
| Chromium | 16.9 | | 0.150 | 1.13 | 1 | 06/01/2024 18:56 | WG2293711 |
| Cobalt | 4.72 | | 0.0914 | 1.13 | 1 | 06/01/2024 18:56 | WG2293711 |
| Copper | 28.1 | | 0.451 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| Lead | 90.7 | | 0.235 | 0.564 | 1 | 06/01/2024 18:56 | WG2293711 |
| Molybdenum | 0.183 | J | 0.123 | 0.564 | 1 | 06/01/2024 18:56 | WG2293711 |
| Nickel | 21.6 | | 0.149 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| Selenium | U | | 0.861 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| Silver | 0.322 | J | 0.143 | 1.13 | 1 | 06/01/2024 18:56 | WG2293711 |
| Thallium | 0.966 | J | 0.444 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| Vanadium | 15.9 | | 0.570 | 2.25 | 1 | 06/01/2024 18:56 | WG2293711 |
| Zinc | 78.7 | | 0.938 | 5.64 | 1 | 06/01/2024 18:56 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.46 | B J | 1.07 | 3.22 | 25 | 05/26/2024 03:40 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.1* | | | *77.0-120* | | *05/26/2024 03:40* | WG2293479 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | U | | 16.6 | 90.2 | 20 | 05/30/2024 20:08 | WG2295238 |
| C22-C32 Hydrocarbons | 165 | | 30.0 | 90.2 | 20 | 05/30/2024 20:08 | WG2295238 |
| C32-C40 Hydrocarbons | 286 | | 30.0 | 90.2 | 20 | 05/30/2024 20:08 | WG2295238 |
| *(S) o-Terphenyl* | *75.7* | J7 | | *18.0-148* | | *05/30/2024 20:08* | WG2295238 |

**Sample Narrative:**

L1738627-13 WG2295238: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0608 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Acenaphthylene | 0.405 | | 0.0529 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Anthracene | 0.483 | | 0.0669 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Benzidine | U | | 0.706 | 18.8 | 10 | 05/31/2024 10:56 | WG2294807 |
| Benzo(a)anthracene | 1.66 | | 0.0662 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Benzo(b)fluoranthene | 1.75 | | 0.0700 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(k)fluoranthene | 0.676 | | 0.0667 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Benzo(g,h,i)perylene | 0.630 | | 0.0687 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Benzo(a)pyrene | 1.52 | | 0.0698 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.113 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.124 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.162 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.132 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0660 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.131 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Chrysene | 1.70 | | 0.0746 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Dibenz(a,h)anthracene | 0.202 | J | 0.104 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.111 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.114 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.112 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.139 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.108 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.123 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Fluoranthene | 3.80 | | 0.0678 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Fluorene | 0.138 | J | 0.0611 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Hexachlorobenzene | U | | 0.133 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.126 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.197 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Hexachloroethane | U | | 0.148 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | 0.821 | | 0.106 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Isophorone | U | | 0.115 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Naphthalene | 0.101 | J | 0.0943 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Nitrobenzene | U | | 0.131 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.557 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.284 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.125 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Phenanthrene | 3.13 | | 0.0745 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.117 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.476 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.129 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Diethyl phthalate | U | | 0.124 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Dimethyl phthalate | U | | 0.796 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.254 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Pyrene | 3.46 | | 0.0731 | 0.375 | 10 | 05/31/2024 10:56 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.117 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.122 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2-Chlorophenol | U | | 0.124 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.109 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0981 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.851 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.878 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2-Nitrophenol | U | | 0.134 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 4-Nitrophenol | U | | 0.117 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Pentachlorophenol | U | | 0.101 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| Phenol | U | | 0.151 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.121 | 3.75 | 10 | 05/31/2024 10:56 | WG2294807 |
| *(S) 2-Fluorophenol* | *103* | | | *12.0-120* | | *05/31/2024 10:56* | WG2294807 |
| *(S) Phenol-d5* | *95.7* | | | *10.0-120* | | *05/31/2024 10:56* | WG2294807 |
| *(S) Nitrobenzene-d5* | *79.2* | | | *10.0-122* | | *05/31/2024 10:56* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *92.7* | | | *15.0-120* | | *05/31/2024 10:56* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *90.2* | | | *10.0-127* | | *05/31/2024 10:56* | WG2294807 |
| *(S) p-Terphenyl-d14* | *95.4* | | | *10.0-120* | | *05/31/2024 10:56* | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

Sample Narrative:

L1738627-13 WG2294807: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 74.9 | | 1 | 05/22/2024 09:31 | WG2290916 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.67 | J | 1.44 | 4.33 | 25 | 05/23/2024 14:25 | WG2291959 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.7* | | | *77.0-120* | | *05/23/2024 14:25* | WG2291959 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0632 | 0.0866 | 1 | 05/25/2024 23:59 | WG2292331 |
| Acrylonitrile | U | J4 | 0.00625 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| Benzene | U | | 0.000809 | 0.00173 | 1 | 05/25/2024 23:59 | WG2292331 |
| Bromobenzene | U | | 0.00156 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| Bromodichloromethane | U | | 0.00126 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Bromoform | U | | 0.00203 | 0.0433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Bromomethane | U | | 0.00341 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| n-Butylbenzene | U | | 0.00909 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| sec-Butylbenzene | U | | 0.00499 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| tert-Butylbenzene | U | | 0.00338 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| Carbon tetrachloride | U | | 0.00155 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| Chlorobenzene | U | | 0.000364 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Chlorodibromomethane | U | | 0.00106 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Chloroethane | U | | 0.00294 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| Chloroform | U | | 0.00178 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Chloromethane | U | | 0.00753 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| 2-Chlorotoluene | U | | 0.00150 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 4-Chlorotoluene | U | | 0.000779 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00675 | 0.0433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2-Dibromoethane | U | | 0.00112 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Dibromomethane | U | | 0.00130 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2-Dichlorobenzene | U | | 0.000736 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,3-Dichlorobenzene | U | | 0.00104 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,4-Dichlorobenzene | U | | 0.00121 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| Dichlorodifluoromethane | U | | 0.00279 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,1-Dichloroethane | U | | 0.000850 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2-Dichloroethane | U | | 0.00112 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,1-Dichloroethene | U | | 0.00105 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| cis-1,2-Dichloroethene | U | | 0.00127 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| trans-1,2-Dichloroethene | U | | 0.00180 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2-Dichloropropane | U | | 0.00246 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,1-Dichloropropene | U | | 0.00140 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,3-Dichloropropane | U | | 0.000867 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| cis-1,3-Dichloropropene | U | | 0.00131 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| trans-1,3-Dichloropropene | U | | 0.00197 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 2,2-Dichloropropane | U | | 0.00239 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Di-isopropyl ether | U | | 0.000710 | 0.00173 | 1 | 05/25/2024 23:59 | WG2292331 |
| Ethylbenzene | U | | 0.00128 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Hexachloro-1,3-butadiene | U | J3 | 0.0104 | 0.0433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Isopropylbenzene | U | | 0.000736 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| p-Isopropyltoluene | U | | 0.00442 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 2-Butanone (MEK) | U | J4 | 0.110 | 0.173 | 1 | 05/25/2024 23:59 | WG2292331 |
| Methylene Chloride | U | | 0.0115 | 0.0433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00395 | 0.0433 | 1 | 05/25/2024 23:59 | WG2292331 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000606 | 0.00173 | 1 | 05/25/2024 23:59 | WG2292331 |
| Naphthalene | U | | 0.00845 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| n-Propylbenzene | U | | 0.00164 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| Styrene | U | | 0.000397 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00164 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00120 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00131 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Tetrachloroethene | U | | 0.00155 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Toluene | 0.00762 | J | 0.00225 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2,3-Trichlorobenzene | U | | 0.0127 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2,4-Trichlorobenzene | U | | 0.00762 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,1,1-Trichloroethane | U | | 0.00160 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,1,2-Trichloroethane | U | | 0.00103 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Trichloroethene | U | | 0.00101 | 0.00173 | 1 | 05/27/2024 09:39 | WG2293785 |
| Trichlorofluoromethane | U | | 0.00143 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2,3-Trichloropropane | U | | 0.00281 | 0.0216 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2,4-Trimethylbenzene | U | | 0.00274 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,2,3-Trimethylbenzene | U | | 0.00274 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| 1,3,5-Trimethylbenzene | U | | 0.00346 | 0.00866 | 1 | 05/25/2024 23:59 | WG2292331 |
| Vinyl chloride | U | | 0.00201 | 0.00433 | 1 | 05/25/2024 23:59 | WG2292331 |
| Xylenes, Total | U | | 0.00152 | 0.0113 | 1 | 05/25/2024 23:59 | WG2292331 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *05/25/2024 23:59* | WG2292331 |
| *(S) Toluene-d8* | *105* | | | *75.0-131* | | *05/27/2024 09:39* | WG2293785 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/25/2024 23:59* | WG2292331 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *67.0-138* | | *05/27/2024 09:39* | WG2293785 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* | | *05/25/2024 23:59* | WG2292331 |
| *(S) 1,2-Dichloroethane-d4* | *103* | | | *70.0-130* | | *05/27/2024 09:39* | WG2293785 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.91 | J | 0.979 | 5.34 | 1 | 05/24/2024 20:51 | WG2292509 |
| C22-C32 Hydrocarbons | 8.16 | | 1.78 | 5.34 | 1 | 05/24/2024 20:51 | WG2292509 |
| C32-C40 Hydrocarbons | 8.82 | | 1.78 | 5.34 | 1 | 05/24/2024 20:51 | WG2292509 |
| *(S) o-Terphenyl* | *56.7* | | | *18.0-148* | | *05/24/2024 20:51* | WG2292509 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.0 | | 1 | 05/22/2024 09:31 | WG2290916 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0530 | 0.0726 | 1 | 05/26/2024 00:18 | WG2292331 |
| Acrylonitrile | U | J4 | 0.00524 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| Benzene | U | | 0.000678 | 0.00145 | 1 | 05/26/2024 00:18 | WG2292331 |
| Bromobenzene | U | | 0.00131 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| Bromodichloromethane | U | | 0.00105 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Bromoform | U | | 0.00170 | 0.0363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Bromomethane | U | | 0.00286 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| n-Butylbenzene | U | | 0.00762 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| sec-Butylbenzene | U | | 0.00418 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| tert-Butylbenzene | U | | 0.00283 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| Carbon tetrachloride | U | | 0.00130 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| Chlorobenzene | U | | 0.000305 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Chlorodibromomethane | U | | 0.000889 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Chloroethane | U | | 0.00247 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| Chloroform | U | | 0.00150 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Chloromethane | U | | 0.00632 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| 2-Chlorotoluene | U | | 0.00126 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 4-Chlorotoluene | U | | 0.000653 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00566 | 0.0363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2-Dibromoethane | U | | 0.000941 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Dibromomethane | U | | 0.00109 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2-Dichlorobenzene | U | | 0.000617 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,3-Dichlorobenzene | U | | 0.000871 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,4-Dichlorobenzene | U | | 0.00102 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| Dichlorodifluoromethane | U | | 0.00234 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,1-Dichloroethane | U | | 0.000713 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2-Dichloroethane | U | | 0.000942 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,1-Dichloroethene | U | | 0.000880 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| cis-1,2-Dichloroethene | U | | 0.00107 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| trans-1,2-Dichloroethene | U | | 0.00151 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2-Dichloropropane | U | | 0.00206 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,1-Dichloropropene | U | | 0.00117 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,3-Dichloropropane | U | | 0.000728 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| cis-1,3-Dichloropropene | U | | 0.00110 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| trans-1,3-Dichloropropene | U | | 0.00166 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 2,2-Dichloropropane | U | | 0.00200 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Di-isopropyl ether | U | | 0.000595 | 0.00145 | 1 | 05/26/2024 00:18 | WG2292331 |
| Ethylbenzene | U | | 0.00107 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00871 | 0.0363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Isopropylbenzene | U | | 0.000617 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| p-Isopropyltoluene | U | | 0.00370 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 2-Butanone (MEK) | U | J4 | 0.0922 | 0.145 | 1 | 05/26/2024 00:18 | WG2292331 |
| Methylene Chloride | U | | 0.00964 | 0.0363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00331 | 0.0363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Methyl tert-butyl ether | U | | 0.000508 | 0.00145 | 1 | 05/26/2024 00:18 | WG2292331 |
| Naphthalene | U | | 0.00709 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| n-Propylbenzene | U | | 0.00138 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| Styrene | U | | 0.000333 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00138 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00101 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00109 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Tetrachloroethene | U | | 0.00130 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Toluene | U | | 0.00189 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2,3-Trichlorobenzene | U | | 0.0106 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2,4-Trichlorobenzene | U | | 0.00639 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,1,1-Trichloroethane | U | | 0.00134 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,1,2-Trichloroethane | U | | 0.000867 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Trichloroethene | U | | 0.000848 | 0.00145 | 1 | 05/27/2024 09:58 | WG2293785 |
| Trichlorofluoromethane | U | | 0.00120 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2,3-Trichloropropane | U | | 0.00235 | 0.0182 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2,4-Trimethylbenzene | U | | 0.00229 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,2,3-Trimethylbenzene | U | | 0.00229 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| 1,3,5-Trimethylbenzene | U | | 0.00290 | 0.00726 | 1 | 05/26/2024 00:18 | WG2292331 |
| Vinyl chloride | U | | 0.00168 | 0.00363 | 1 | 05/26/2024 00:18 | WG2292331 |
| Xylenes, Total | U | | 0.00128 | 0.00944 | 1 | 05/26/2024 00:18 | WG2292331 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *05/26/2024 00:18* | WG2292331 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *05/27/2024 09:58* | WG2293785 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/26/2024 00:18* | WG2292331 |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *67.0-138* | | *05/27/2024 09:58* | WG2293785 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *05/26/2024 00:18* | WG2292331 |
| *(S) 1,2-Dichloroethane-d4* | *99.3* | | | *70.0-130* | | *05/27/2024 09:58* | WG2293785 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.1 | | 1 | 05/22/2024 09:31 | WG2290916 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.473 | | 0.0198 | 0.0439 | 1 | 05/23/2024 10:42 | WG2290825 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 12.7 | | 2.99 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| Arsenic | 19.0 | | 2.84 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| Barium | 799 | | 0.468 | 2.75 | 5 | 05/26/2024 20:15 | WG2291334 |
| Beryllium | 0.294 | J | 0.174 | 1.10 | 5 | 05/26/2024 20:15 | WG2291334 |
| Cadmium | 47.1 | | 0.259 | 2.75 | 5 | 05/26/2024 20:15 | WG2291334 |
| Chromium | 61.1 | | 0.730 | 5.49 | 5 | 05/26/2024 20:15 | WG2291334 |
| Cobalt | 20.0 | | 0.446 | 5.49 | 5 | 05/26/2024 20:15 | WG2291334 |
| Copper | 1030 | | 2.20 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| Lead | 1220 | | 1.14 | 2.75 | 5 | 05/26/2024 20:15 | WG2291334 |
| Molybdenum | 8.05 | | 0.599 | 2.75 | 5 | 05/26/2024 20:15 | WG2291334 |
| Nickel | 103 | | 0.725 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| Selenium | U | | 4.20 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| Silver | U | | 0.697 | 5.49 | 5 | 05/26/2024 20:15 | WG2291334 |
| Thallium | 5.69 | J | 2.16 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| Vanadium | 61.9 | | 2.78 | 11.0 | 5 | 05/26/2024 20:15 | WG2291334 |
| Zinc | 3250 | | 4.57 | 27.5 | 5 | 05/26/2024 20:15 | WG2291334 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0130 | 0.0373 | 1 | 05/22/2024 15:39 | WG2291058 |
| PCB 1221 | U | | 0.0130 | 0.0373 | 1 | 05/22/2024 15:39 | WG2291058 |
| PCB 1232 | U | | 0.0130 | 0.0373 | 1 | 05/22/2024 15:39 | WG2291058 |
| PCB 1242 | U | | 0.0130 | 0.0373 | 1 | 05/22/2024 15:39 | WG2291058 |
| PCB 1248 | U | | 0.00810 | 0.0187 | 1 | 05/22/2024 15:39 | WG2291058 |
| PCB 1254 | U | | 0.00810 | 0.0187 | 1 | 05/22/2024 15:39 | WG2291058 |
| PCB 1260 | 0.255 | | 0.00810 | 0.0187 | 1 | 05/22/2024 15:39 | WG2291058 |
| *(S) Decachlorobiphenyl* | *83.6* | | | *10.0-135* | | *05/22/2024 15:39* | WG2291058 |
| *(S) Tetrachloro-m-xylene* | *79.9* | | | *10.0-139* | | *05/22/2024 15:39* | WG2291058 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0119 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Acenaphthylene | 0.0374 | J | 0.0103 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Anthracene | 0.0437 | J | 0.0131 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Benzidine | U | | 0.137 | 3.67 | 2 | 05/31/2024 00:46 | WG2294807 |
| Benzo(a)anthracene | 0.133 | | 0.0128 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Benzo(b)fluoranthene | 0.203 | | 0.0136 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Benzo(k)fluoranthene | 0.0614 | J | 0.0130 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Benzo(g,h,i)perylene | 0.131 | | 0.0134 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Benzo(a)pyrene | 0.154 | | 0.0136 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0220 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0242 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0316 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0257 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0128 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0255 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Chrysene | 0.170 | | 0.0145 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Dibenz(a,h)anthracene | 0.0269 | J | 0.0203 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0216 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0222 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0217 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0270 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0210 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0239 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Fluoranthene | 0.286 | | 0.0132 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Fluorene | 0.0226 | J | 0.0119 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Hexachlorobenzene | U | | 0.0259 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0246 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0384 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Hexachloroethane | U | | 0.0288 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | 0.139 | | 0.0206 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Isophorone | U | | 0.0224 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Naphthalene | 0.0881 | | 0.0183 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Nitrobenzene | U | | 0.0255 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.109 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.0554 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0244 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Phenanthrene | 0.290 | | 0.0145 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.0228 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0927 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Di-n-butyl phthalate | 0.304 | J | 0.0250 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Diethyl phthalate | U | | 0.0242 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Dimethyl phthalate | U | | 0.155 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0494 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Pyrene | 0.297 | | 0.0143 | 0.0731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0228 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.0237 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2-Chlorophenol | U | | 0.0242 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0213 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0191 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.166 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.171 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2-Nitrophenol | U | | 0.0261 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 4-Nitrophenol | U | | 0.0228 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Pentachlorophenol | U | | 0.0197 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| Phenol | U | | 0.0294 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0235 | 0.731 | 2 | 05/31/2024 00:46 | WG2294807 |
| *(S) 2-Fluorophenol* | *88.1* | | | *12.0-120* | | *05/31/2024 00:46* | WG2294807 |
| *(S) Phenol-d5* | *84.3* | | | *10.0-120* | | *05/31/2024 00:46* | WG2294807 |
| *(S) Nitrobenzene-d5* | *70.1* | | | *10.0-122* | | *05/31/2024 00:46* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *82.0* | | | *15.0-120* | | *05/31/2024 00:46* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *84.8* | | | *10.0-127* | | *05/31/2024 00:46* | WG2294807 |
| *(S) p-Terphenyl-d14* | *92.1* | | | *10.0-120* | | *05/31/2024 00:46* | WG2294807 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 87.4 | | 1 | 05/22/2024 09:31 | WG2290916 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.160 | | 0.0206 | 0.0458 | 1 | 05/23/2024 10:45 | WG2290825 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 0.705 | J | 0.622 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| Arsenic | 7.17 | | 0.593 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| Barium | 121 | | 0.0975 | 0.572 | 1 | 05/26/2024 20:10 | WG2291334 |
| Beryllium | 0.136 | J | 0.0360 | 0.229 | 1 | 05/26/2024 20:10 | WG2291334 |
| Cadmium | 14.7 | | 0.0539 | 0.572 | 1 | 05/26/2024 20:10 | WG2291334 |
| Chromium | 17.2 | | 0.152 | 1.14 | 1 | 05/26/2024 20:10 | WG2291334 |
| Cobalt | 8.30 | | 0.0928 | 1.14 | 1 | 05/26/2024 20:10 | WG2291334 |
| Copper | 60.6 | | 0.458 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| Lead | 67.1 | | 0.238 | 0.572 | 1 | 05/26/2024 20:10 | WG2291334 |
| Molybdenum | 0.523 | B J | 0.125 | 0.572 | 1 | 05/26/2024 20:10 | WG2291334 |
| Nickel | 22.1 | | 0.151 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| Selenium | U | | 0.874 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| Silver | U | | 0.145 | 1.14 | 1 | 05/26/2024 20:10 | WG2291334 |
| Thallium | 2.27 | J | 0.451 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| Vanadium | 72.1 | | 0.579 | 2.29 | 1 | 05/26/2024 20:10 | WG2291334 |
| Zinc | 212 | | 0.952 | 5.72 | 1 | 05/26/2024 20:10 | WG2291334 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0600 | 0.0822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Acrylonitrile | U | J4 | 0.00593 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Benzene | U | | 0.000768 | 0.00164 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Bromobenzene | U | | 0.00148 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Bromodichloromethane | U | | 0.00119 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Bromoform | U | | 0.00192 | 0.0411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Bromomethane | U | | 0.00324 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| n-Butylbenzene | U | | 0.00863 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| sec-Butylbenzene | U | | 0.00473 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| tert-Butylbenzene | U | | 0.00320 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Carbon tetrachloride | U | | 0.00148 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Chlorobenzene | 0.000493 | J | 0.000345 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Chlorodibromomethane | U | | 0.00101 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Chloroethane | U | | 0.00280 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Chloroform | U | | 0.00169 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Chloromethane | U | | 0.00715 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 2-Chlorotoluene | U | | 0.00142 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 4-Chlorotoluene | U | | 0.000740 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00641 | 0.0411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Dibromomethane | U | | 0.00123 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2-Dichlorobenzene | U | | 0.000699 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,3-Dichlorobenzene | U | | 0.000986 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,4-Dichlorobenzene | U | | 0.00115 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00265 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,1-Dichloroethane | U | | 0.000807 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2-Dichloroethane | U | | 0.00107 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,1-Dichloroethene | U | | 0.000996 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| cis-1,2-Dichloroethene | U | | 0.00121 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| trans-1,2-Dichloroethene | U | | 0.00171 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2-Dichloropropane | U | | 0.00233 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,1-Dichloropropene | U | | 0.00133 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,3-Dichloropropane | U | | 0.000823 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| cis-1,3-Dichloropropene | U | | 0.00124 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| trans-1,3-Dichloropropene | U | | 0.00187 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 2,2-Dichloropropane | U | | 0.00227 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Di-isopropyl ether | U | | 0.000674 | 0.00164 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Ethylbenzene | U | | 0.00121 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00986 | 0.0411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Isopropylbenzene | U | | 0.000699 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| p-Isopropyltoluene | U | | 0.00419 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 2-Butanone (MEK) | U | J4 | 0.104 | 0.164 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Methylene Chloride | U | | 0.0109 | 0.0411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00375 | 0.0411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Methyl tert-butyl ether | U | | 0.000576 | 0.00164 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Naphthalene | U | | 0.00802 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| n-Propylbenzene | U | | 0.00156 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Styrene | U | | 0.000376 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00156 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00114 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00124 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Tetrachloroethene | U | | 0.00147 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Toluene | U | | 0.00213 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2,3-Trichlorobenzene | U | | 0.0120 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2,4-Trichlorobenzene | U | | 0.00722 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,1,1-Trichloroethane | U | | 0.00152 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,1,2-Trichloroethane | U | | 0.000981 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Trichloroethene | U | | 0.000960 | 0.00164 | 1.31 | 05/27/2024 10:18 | WG2293785 |
| Trichlorofluoromethane | U | | 0.00135 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2,3-Trichloropropane | U | | 0.00266 | 0.0206 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2,4-Trimethylbenzene | U | | 0.00260 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,2,3-Trimethylbenzene | U | | 0.00260 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| 1,3,5-Trimethylbenzene | U | | 0.00329 | 0.00822 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Vinyl chloride | U | | 0.00191 | 0.00411 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| Xylenes, Total | U | | 0.00144 | 0.0107 | 1.31 | 05/26/2024 00:37 | WG2292331 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *05/26/2024 00:37* | WG2292331 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *05/27/2024 10:18* | WG2293785 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *05/26/2024 00:37* | WG2292331 |
| *(S) 4-Bromofluorobenzene* | *95.6* | | | *67.0-138* | | *05/27/2024 10:18* | WG2293785 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *05/26/2024 00:37* | WG2292331 |
| *(S) 1,2-Dichloroethane-d4* | *98.4* | | | *70.0-130* | | *05/27/2024 10:18* | WG2293785 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0270 | 0.0778 | 2 | 07/02/2024 18:28 | WG2315705 |
| PCB 1221 | U | | 0.0270 | 0.0778 | 2 | 07/02/2024 18:28 | WG2315705 |
| PCB 1232 | U | | 0.0270 | 0.0778 | 2 | 07/02/2024 18:28 | WG2315705 |
| PCB 1242 | U | | 0.0270 | 0.0778 | 2 | 07/02/2024 18:28 | WG2315705 |
| PCB 1248 | U | | 0.0169 | 0.0389 | 2 | 07/02/2024 18:28 | WG2315705 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1254 | U | | 0.0169 | 0.0389 | 2 | 07/02/2024 18:28 | WG2315705 |
| PCB 1260 | U | | 0.0169 | 0.0389 | 2 | 07/02/2024 18:28 | WG2315705 |
| *(S) Decachlorobiphenyl* | *47.4* | | | *10.0-135* | | *07/02/2024 18:28* | WG2315705 |
| *(S) Tetrachloro-m-xylene* | *54.0* | | | *10.0-139* | | *07/02/2024 18:28* | WG2315705 |

**Sample Narrative:**

L1738627-19 WG2315705: Dilution due to sulfur cleanup.

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0124 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Acenaphthylene | U | | 0.0107 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Anthracene | U | | 0.0136 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Benzidine | U | | 0.143 | 3.82 | 2 | 05/30/2024 23:33 | WG2294807 |
| Benzo(a)anthracene | U | | 0.0134 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Benzo(b)fluoranthene | 0.0204 | J | 0.0142 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0135 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0140 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Benzo(a)pyrene | U | | 0.0142 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0229 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0252 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0330 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0268 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0134 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0265 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Chrysene | U | | 0.0151 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0212 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0225 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0231 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0227 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0281 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0219 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0249 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Fluoranthene | 0.0294 | J | 0.0137 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Fluorene | U | | 0.0124 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Hexachlorobenzene | U | | 0.0270 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0256 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0400 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Hexachloroethane | U | | 0.0300 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0215 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Isophorone | U | | 0.0233 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Naphthalene | U | | 0.0191 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Nitrobenzene | U | | 0.0265 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.113 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.0577 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0254 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Phenanthrene | 0.0205 | J | 0.0151 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.0238 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0966 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.0261 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Diethyl phthalate | U | | 0.0252 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Dimethyl phthalate | U | | 0.161 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0515 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Pyrene | 0.0267 | J | 0.0149 | 0.0762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0238 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.0247 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2-Chlorophenol | U | | 0.0252 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0222 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0199 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.173 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.179 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2-Nitrophenol | U | | 0.0272 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 4-Nitrophenol | U | | 0.0238 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Pentachlorophenol | U | | 0.0205 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| Phenol | U | | 0.0307 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0245 | 0.762 | 2 | 05/30/2024 23:33 | WG2294807 |
| *(S) 2-Fluorophenol* | *78.5* | | | *12.0-120* | | *05/30/2024 23:33* | WG2294807 |
| *(S) Phenol-d5* | *74.1* | | | *10.0-120* | | *05/30/2024 23:33* | WG2294807 |
| *(S) Nitrobenzene-d5* | *59.5* | | | *10.0-122* | | *05/30/2024 23:33* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *76.5* | | | *15.0-120* | | *05/30/2024 23:33* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *91.9* | | | *10.0-127* | | *05/30/2024 23:33* | WG2294807 |
| *(S) p-Terphenyl-d14* | *97.0* | | | *10.0-120* | | *05/30/2024 23:33* | WG2294807 |

**Sample Narrative:**

L1738627-19 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.4 | | 1 | 05/22/2024 09:31 | WG2290916 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0997 | | 0.0213 | 0.0474 | 1 | 05/23/2024 10:52 | WG2290825 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.645 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| Arsenic | 2.61 | | 0.614 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| Barium | 185 | | 0.101 | 0.593 | 1 | 05/26/2024 20:12 | WG2291334 |
| Beryllium | 0.342 | | 0.0373 | 0.237 | 1 | 05/26/2024 20:12 | WG2291334 |
| Cadmium | U | | 0.0558 | 0.593 | 1 | 05/26/2024 20:12 | WG2291334 |
| Chromium | 80.8 | | 0.158 | 1.19 | 1 | 05/26/2024 20:12 | WG2291334 |
| Cobalt | 12.9 | | 0.0961 | 1.19 | 1 | 05/26/2024 20:12 | WG2291334 |
| Copper | 36.8 | | 0.474 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| Lead | 49.8 | | 0.247 | 0.593 | 1 | 05/26/2024 20:12 | WG2291334 |
| Molybdenum | 0.250 | B J | 0.129 | 0.593 | 1 | 05/26/2024 20:12 | WG2291334 |
| Nickel | 52.1 | | 0.156 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| Selenium | U | | 0.906 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| Silver | U | | 0.151 | 1.19 | 1 | 05/26/2024 20:12 | WG2291334 |
| Thallium | 1.74 | J | 0.467 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| Vanadium | 71.8 | | 0.600 | 2.37 | 1 | 05/26/2024 20:12 | WG2291334 |
| Zinc | 51.7 | | 0.986 | 5.93 | 1 | 05/26/2024 20:12 | WG2291334 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.28 | J | 1.19 | 3.57 | 25 | 05/23/2024 14:44 | WG2291959 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.1* | | | *77.0-120* | | *05/23/2024 14:44* | WG2291959 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0521 | 0.0714 | 1 | 05/28/2024 00:52 | WG2293465 |
| Acrylonitrile | U | | 0.00515 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| Benzene | U | | 0.000667 | 0.00143 | 1 | 05/28/2024 00:52 | WG2293465 |
| Bromobenzene | U | | 0.00129 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| Bromodichloromethane | U | | 0.00104 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Bromoform | U | | 0.00167 | 0.0357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Bromomethane | U | | 0.00281 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| n-Butylbenzene | U | | 0.00750 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| sec-Butylbenzene | U | | 0.00411 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| tert-Butylbenzene | U | | 0.00278 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| Carbon tetrachloride | U | | 0.00128 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| Chlorobenzene | U | | 0.000300 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Chlorodibromomethane | U | | 0.000874 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Chloroethane | U | | 0.00243 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| Chloroform | U | | 0.00147 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Chloromethane | U | | 0.00621 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00124 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000643 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00557 | 0.0357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.000925 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Dibromomethane | U | | 0.00107 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000607 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000857 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.00100 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| Dichlorodifluoromethane | U | | 0.00230 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000701 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.000927 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.000865 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| cis-1,2-Dichloroethene | U | | 0.00105 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| trans-1,2-Dichloroethene | U | | 0.00148 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00203 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00116 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000715 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.00108 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00163 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00197 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Di-isopropyl ether | U | | 0.000585 | 0.00143 | 1 | 05/28/2024 00:52 | WG2293465 |
| Ethylbenzene | U | | 0.00105 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00857 | 0.0357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Isopropylbenzene | U | | 0.000607 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00364 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.0907 | 0.143 | 1 | 05/28/2024 00:52 | WG2293465 |
| Methylene Chloride | U | | 0.00948 | 0.0357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00326 | 0.0357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Methyl tert-butyl ether | U | | 0.000500 | 0.00143 | 1 | 05/28/2024 00:52 | WG2293465 |
| Naphthalene | U | J3 | 0.00697 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| n-Propylbenzene | U | | 0.00136 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| Styrene | U | | 0.000327 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00135 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000992 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00108 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Tetrachloroethene | U | | 0.00128 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Toluene | U | | 0.00186 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.0105 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00628 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00132 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000852 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Trichloroethene | U | | 0.000834 | 0.00143 | 1 | 05/28/2024 00:52 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00118 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00231 | 0.0178 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00226 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00226 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00286 | 0.00714 | 1 | 05/28/2024 00:52 | WG2293465 |
| Vinyl chloride | U | | 0.00166 | 0.00357 | 1 | 05/28/2024 00:52 | WG2293465 |
| Xylenes, Total | 0.00168 | J | 0.00126 | 0.00928 | 1 | 05/28/2024 00:52 | WG2293465 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *05/28/2024 00:52* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/28/2024 00:52* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *99.1* | | | *70.0-130* | | *05/28/2024 00:52* | WG2293465 |

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

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 15.1 | J | 4.35 | 23.7 | 5 | 05/24/2024 21:32 | WG2292509 |
| C22-C32 Hydrocarbons | 134 | | 7.88 | 23.7 | 5 | 05/24/2024 21:32 | WG2292509 |
| C32-C40 Hydrocarbons | 102 | | 7.88 | 23.7 | 5 | 05/24/2024 21:32 | WG2292509 |
| *(S) o-Terphenyl* | *80.1* | | | *18.0-148* | | *05/24/2024 21:32* | WG2292509 |

Sample Narrative:

L1738627-20 WG2292509: Cannot run at lower dilution due to viscosity of extract.

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0639 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Acenaphthylene | U | | 0.0556 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Anthracene | U | | 0.0703 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Benzidine | U | | 0.742 | 19.8 | 10 | 05/31/2024 04:51 | WG2294807 |
| Benzo(a)anthracene | U | | 0.0696 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.0736 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0702 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0722 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Benzo(a)pyrene | U | | 0.0734 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.119 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.130 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.171 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.139 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0693 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.138 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Chrysene | U | | 0.0785 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.109 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.117 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.120 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.117 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.146 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.113 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.129 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Fluoranthene | U | | 0.0712 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Fluorene | U | | 0.0642 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Hexachlorobenzene | U | | 0.140 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.133 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.207 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Hexachloroethane | U | | 0.155 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.112 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Isophorone | U | | 0.121 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Naphthalene | U | | 0.0991 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Nitrobenzene | U | | 0.138 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.586 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.299 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.132 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Phenanthrene | U | | 0.0784 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.123 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.500 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.135 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Diethyl phthalate | U | | 0.130 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Dimethyl phthalate | U | | 0.837 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.267 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Pyrene | U | | 0.0768 | 0.395 | 10 | 05/31/2024 04:51 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.123 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.128 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2-Chlorophenol | U | | 0.130 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.115 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.103 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.895 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.923 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2-Nitrophenol | U | | 0.141 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 4-Nitrophenol | U | | 0.123 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Pentachlorophenol | U | | 0.106 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| Phenol | U | | 0.159 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.127 | 3.95 | 10 | 05/31/2024 04:51 | WG2294807 |
| *(S) 2-Fluorophenol* | *95.7* | | | *12.0-120* | | *05/31/2024 04:51* | WG2294807 |
| *(S) Phenol-d5* | *87.0* | | | *10.0-120* | | *05/31/2024 04:51* | WG2294807 |
| *(S) Nitrobenzene-d5* | *70.2* | | | *10.0-122* | | *05/31/2024 04:51* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *84.8* | | | *15.0-120* | | *05/31/2024 04:51* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *84.9* | | | *10.0-127* | | *05/31/2024 04:51* | WG2294807 |
| *(S) p-Terphenyl-d14* | *91.7* | | | *10.0-120* | | *05/31/2024 04:51* | WG2294807 |

**Sample Narrative:**

L1738627-20 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.2 | | 1 | 05/22/2024 09:31 | WG2290916 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.95 | J | 1.31 | 3.96 | 25 | 05/23/2024 15:03 | WG2291959 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.9* | | | *77.0-120* | | *05/23/2024 15:03* | WG2291959 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0578 | 0.0792 | 1 | 05/26/2024 00:56 | WG2292331 |
| Acrylonitrile | U | J4 | 0.00572 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| Benzene | U | | 0.000740 | 0.00158 | 1 | 05/26/2024 00:56 | WG2292331 |
| Bromobenzene | U | | 0.00143 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| Bromodichloromethane | U | | 0.00115 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Bromoform | U | | 0.00185 | 0.0396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Bromomethane | U | | 0.00312 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| n-Butylbenzene | U | | 0.00831 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| sec-Butylbenzene | U | | 0.00456 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| tert-Butylbenzene | U | | 0.00309 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| Carbon tetrachloride | U | | 0.00142 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| Chlorobenzene | U | | 0.000333 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Chlorodibromomethane | U | | 0.000969 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Chloroethane | U | | 0.00269 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| Chloroform | U | | 0.00163 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Chloromethane | U | | 0.00689 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| 2-Chlorotoluene | U | | 0.00137 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 4-Chlorotoluene | U | | 0.000713 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00618 | 0.0396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2-Dibromoethane | U | | 0.00103 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Dibromomethane | U | | 0.00119 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2-Dichlorobenzene | U | | 0.000673 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,3-Dichlorobenzene | U | | 0.000950 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,4-Dichlorobenzene | U | | 0.00111 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| Dichlorodifluoromethane | U | | 0.00255 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,1-Dichloroethane | U | | 0.000778 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2-Dichloroethane | U | | 0.00103 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,1-Dichloroethene | U | | 0.000960 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| cis-1,2-Dichloroethene | U | | 0.00116 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| trans-1,2-Dichloroethene | U | | 0.00165 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2-Dichloropropane | U | | 0.00225 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,1-Dichloropropene | U | | 0.00128 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,3-Dichloropropane | U | | 0.000793 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| cis-1,3-Dichloropropene | U | | 0.00120 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| trans-1,3-Dichloropropene | U | | 0.00181 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 2,2-Dichloropropane | U | | 0.00219 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Di-isopropyl ether | U | | 0.000649 | 0.00158 | 1 | 05/26/2024 00:56 | WG2292331 |
| Ethylbenzene | U | | 0.00117 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00950 | 0.0396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Isopropylbenzene | U | | 0.000673 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| p-Isopropyltoluene | U | | 0.00404 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 2-Butanone (MEK) | U | J4 | 0.101 | 0.158 | 1 | 05/26/2024 00:56 | WG2292331 |
| Methylene Chloride | U | | 0.0105 | 0.0396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00361 | 0.0396 | 1 | 05/26/2024 00:56 | WG2292331 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000554 | 0.00158 | 1 | 05/26/2024 00:56 | WG2292331 |
| Naphthalene | U | | 0.00773 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| n-Propylbenzene | U | | 0.00150 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| Styrene | U | | 0.000363 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00150 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00110 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00119 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Tetrachloroethene | U | | 0.00142 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Toluene | U | | 0.00206 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2,3-Trichlorobenzene | U | | 0.0116 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2,4-Trichlorobenzene | U | | 0.00697 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,1,1-Trichloroethane | U | | 0.00146 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,1,2-Trichloroethane | U | | 0.000945 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Trichloroethene | U | | 0.000925 | 0.00158 | 1 | 05/26/2024 00:56 | WG2292331 |
| Trichlorofluoromethane | U | | 0.00131 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2,3-Trichloropropane | U | | 0.00257 | 0.0198 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2,4-Trimethylbenzene | U | | 0.00250 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,2,3-Trimethylbenzene | U | | 0.00250 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| 1,3,5-Trimethylbenzene | U | | 0.00317 | 0.00792 | 1 | 05/26/2024 00:56 | WG2292331 |
| Vinyl chloride | U | | 0.00184 | 0.00396 | 1 | 05/26/2024 00:56 | WG2292331 |
| Xylenes, Total | U | | 0.00139 | 0.0103 | 1 | 05/26/2024 00:56 | WG2292331 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *05/26/2024 00:56* | WG2292331 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *05/26/2024 00:56* | WG2292331 |
| *(S) 1,2-Dichloroethane-d4* | *96.0* | | | *70.0-130* | | *05/26/2024 00:56* | WG2292331 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 5.45 | | 0.925 | 5.05 | 1 | 05/24/2024 20:23 | WG2292509 |
| C22-C32 Hydrocarbons | 7.80 | | 1.68 | 5.05 | 1 | 05/24/2024 20:23 | WG2292509 |
| C32-C40 Hydrocarbons | 4.46 | J | 1.68 | 5.05 | 1 | 05/24/2024 20:23 | WG2292509 |
| *(S) o-Terphenyl* | *53.3* | | | *18.0-148* | | *05/24/2024 20:23* | WG2292509 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 05/22/2024 09:31 | WG2290916 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0721 | | 0.0191 | 0.0425 | 1 | 05/23/2024 10:55 | WG2290825 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.578 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| Arsenic | 10.6 | | 0.551 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| Barium | 190 | | 0.0906 | 0.532 | 1 | 05/26/2024 20:14 | WG2291334 |
| Beryllium | 0.306 | | 0.0335 | 0.213 | 1 | 05/26/2024 20:14 | WG2291334 |
| Cadmium | 0.104 | J | 0.0501 | 0.532 | 1 | 05/26/2024 20:14 | WG2291334 |
| Chromium | 111 | | 0.141 | 1.06 | 1 | 05/26/2024 20:14 | WG2291334 |
| Cobalt | 9.05 | | 0.0862 | 1.06 | 1 | 05/26/2024 20:14 | WG2291334 |
| Copper | 37.2 | | 0.425 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| Lead | 44.4 | | 0.221 | 0.532 | 1 | 05/26/2024 20:14 | WG2291334 |
| Molybdenum | 1.67 | | 0.116 | 0.532 | 1 | 05/26/2024 20:14 | WG2291334 |
| Nickel | 86.1 | | 0.140 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| Selenium | U | | 0.812 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| Silver | 1.99 | | 0.135 | 1.06 | 1 | 05/26/2024 20:14 | WG2291334 |
| Thallium | 1.86 | J | 0.419 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| Vanadium | 42.8 | | 0.538 | 2.13 | 1 | 05/26/2024 20:14 | WG2291334 |
| Zinc | 89.8 | | 0.885 | 5.32 | 1 | 05/26/2024 20:14 | WG2291334 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0125 | 0.0362 | 1 | 05/22/2024 15:57 | WG2291058 |
| PCB 1221 | U | | 0.0125 | 0.0362 | 1 | 05/22/2024 15:57 | WG2291058 |
| PCB 1232 | U | | 0.0125 | 0.0362 | 1 | 05/22/2024 15:57 | WG2291058 |
| PCB 1242 | U | | 0.0125 | 0.0362 | 1 | 05/22/2024 15:57 | WG2291058 |
| PCB 1248 | U | | 0.00785 | 0.0181 | 1 | 05/22/2024 15:57 | WG2291058 |
| PCB 1254 | U | | 0.00785 | 0.0181 | 1 | 05/22/2024 15:57 | WG2291058 |
| PCB 1260 | 0.0195 | | 0.00785 | 0.0181 | 1 | 05/22/2024 15:57 | WG2291058 |
| *(S) Decachlorobiphenyl* | *62.9* | | | *10.0-135* | | *05/22/2024 15:57* | WG2291058 |
| *(S) Tetrachloro-m-xylene* | *68.1* | | | *10.0-139* | | *05/22/2024 15:57* | WG2291058 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0573 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Acenaphthylene | U | | 0.0499 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Anthracene | U | | 0.0631 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Benzidine | U | | 0.666 | 17.8 | 10 | 05/31/2024 06:04 | WG2294807 |
| Benzo(a)anthracene | U | | 0.0624 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.0660 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0630 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0648 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Benzo(a)pyrene | U | | 0.0658 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.106 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.117 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.153 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.124 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0622 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.123 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Chrysene | U | | 0.0704 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0981 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.105 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.107 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.105 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.131 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.102 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.116 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Fluoranthene | U | | 0.0639 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Fluorene | U | | 0.0576 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Hexachlorobenzene | U | | 0.125 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.119 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.186 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Hexachloroethane | U | | 0.139 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.100 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Isophorone | U | | 0.108 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Naphthalene | U | | 0.0889 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Nitrobenzene | U | | 0.123 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.525 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.268 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.118 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Phenanthrene | U | | 0.0703 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.111 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.449 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.121 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Diethyl phthalate | U | | 0.117 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Dimethyl phthalate | U | | 0.751 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.239 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Pyrene | U | | 0.0689 | 0.354 | 10 | 05/31/2024 06:04 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.111 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.115 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2-Chlorophenol | U | | 0.117 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.103 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0925 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.803 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.828 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2-Nitrophenol | U | | 0.127 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 4-Nitrophenol | U | | 0.111 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Pentachlorophenol | U | | 0.0953 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| Phenol | U | | 0.142 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.114 | 3.54 | 10 | 05/31/2024 06:04 | WG2294807 |
| *(S) 2-Fluorophenol* | *45.7* | | | *12.0-120* | | *05/31/2024 06:04* | WG2294807 |
| *(S) Phenol-d5* | *72.5* | | | *10.0-120* | | *05/31/2024 06:04* | WG2294807 |
| *(S) Nitrobenzene-d5* | *67.1* | | | *10.0-122* | | *05/31/2024 06:04* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *86.3* | | | *15.0-120* | | *05/31/2024 06:04* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *39.9* | | | *10.0-127* | | *05/31/2024 06:04* | WG2294807 |
| *(S) p-Terphenyl-d14* | *96.2* | | | *10.0-120* | | *05/31/2024 06:04* | WG2294807 |

**Sample Narrative:**

L1738627-23 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 84.2 | | 1 | 05/22/2024 09:31 | WG2290916 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0487 | | 0.0214 | 0.0475 | 1 | 05/27/2024 13:52 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.646 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| Arsenic | 1.36 | J | 0.616 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| Barium | 62.9 | | 0.101 | 0.594 | 1 | 06/01/2024 18:58 | WG2293711 |
| Beryllium | 0.128 | J | 0.0374 | 0.238 | 1 | 06/01/2024 18:58 | WG2293711 |
| Cadmium | U | | 0.0560 | 0.594 | 1 | 06/01/2024 18:58 | WG2293711 |
| Chromium | 9.44 | | 0.158 | 1.19 | 1 | 06/01/2024 18:58 | WG2293711 |
| Cobalt | 4.45 | | 0.0964 | 1.19 | 1 | 06/01/2024 18:58 | WG2293711 |
| Copper | 9.51 | | 0.475 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| Lead | 11.1 | | 0.247 | 0.594 | 1 | 06/01/2024 18:58 | WG2293711 |
| Molybdenum | 0.181 | J | 0.130 | 0.594 | 1 | 06/01/2024 18:58 | WG2293711 |
| Nickel | 14.2 | | 0.157 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| Selenium | U | | 0.908 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| Silver | 0.175 | J | 0.151 | 1.19 | 1 | 06/01/2024 18:58 | WG2293711 |
| Thallium | 0.953 | J | 0.468 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| Vanadium | 14.0 | | 0.601 | 2.38 | 1 | 06/01/2024 18:58 | WG2293711 |
| Zinc | 31.2 | | 0.989 | 5.94 | 1 | 06/01/2024 18:58 | WG2293711 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0519 | 0.0712 | 1 | 05/26/2024 01:15 | WG2292331 |
| Acrylonitrile | U | J4 | 0.00514 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| Benzene | U | | 0.000665 | 0.00142 | 1 | 05/26/2024 01:15 | WG2292331 |
| Bromobenzene | U | | 0.00128 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| Bromodichloromethane | U | | 0.00103 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Bromoform | U | | 0.00167 | 0.0356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Bromomethane | U | | 0.00280 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| n-Butylbenzene | U | | 0.00747 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| sec-Butylbenzene | U | | 0.00410 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| tert-Butylbenzene | U | | 0.00278 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| Carbon tetrachloride | U | | 0.00128 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| Chlorobenzene | U | | 0.000299 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Chlorodibromomethane | U | | 0.000871 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Chloroethane | U | | 0.00242 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| Chloroform | U | | 0.00147 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Chloromethane | U | | 0.00619 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| 2-Chlorotoluene | U | | 0.00123 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 4-Chlorotoluene | U | | 0.000640 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00555 | 0.0356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2-Dibromoethane | U | | 0.000922 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Dibromomethane | U | | 0.00107 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2-Dichlorobenzene | U | | 0.000605 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,3-Dichlorobenzene | U | | 0.000854 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,4-Dichlorobenzene | U | | 0.000996 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00229 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,1-Dichloroethane | U | | 0.000699 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2-Dichloroethane | U | | 0.000924 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,1-Dichloroethene | U | | 0.000862 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| cis-1,2-Dichloroethene | U | | 0.00104 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| trans-1,2-Dichloroethene | U | | 0.00148 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2-Dichloropropane | U | | 0.00202 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,1-Dichloropropene | U | | 0.00115 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,3-Dichloropropane | U | | 0.000713 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| cis-1,3-Dichloropropene | U | | 0.00108 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| trans-1,3-Dichloropropene | U | | 0.00162 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 2,2-Dichloropropane | U | | 0.00196 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Di-isopropyl ether | U | | 0.000583 | 0.00142 | 1 | 05/26/2024 01:15 | WG2292331 |
| Ethylbenzene | U | | 0.00105 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00854 | 0.0356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Isopropylbenzene | U | | 0.000605 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| p-Isopropyltoluene | U | | 0.00363 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 2-Butanone (MEK) | U | J4 | 0.0904 | 0.142 | 1 | 05/26/2024 01:15 | WG2292331 |
| Methylene Chloride | U | | 0.00945 | 0.0356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00324 | 0.0356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Methyl tert-butyl ether | U | | 0.000498 | 0.00142 | 1 | 05/26/2024 01:15 | WG2292331 |
| Naphthalene | U | | 0.00695 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| n-Propylbenzene | U | | 0.00135 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| Styrene | U | | 0.000326 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00135 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000989 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00107 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Tetrachloroethene | U | | 0.00128 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Toluene | U | | 0.00185 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2,3-Trichlorobenzene | U | | 0.0104 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2,4-Trichlorobenzene | U | | 0.00626 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,1,1-Trichloroethane | U | | 0.00131 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,1,2-Trichloroethane | U | | 0.000850 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Trichloroethene | U | | 0.000831 | 0.00142 | 1 | 05/26/2024 01:15 | WG2292331 |
| Trichlorofluoromethane | U | | 0.00118 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2,3-Trichloropropane | U | | 0.00231 | 0.0178 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2,4-Trimethylbenzene | U | | 0.00225 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,2,3-Trimethylbenzene | U | | 0.00225 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| 1,3,5-Trimethylbenzene | U | | 0.00285 | 0.00712 | 1 | 05/26/2024 01:15 | WG2292331 |
| Vinyl chloride | U | | 0.00165 | 0.00356 | 1 | 05/26/2024 01:15 | WG2292331 |
| Xylenes, Total | U | | 0.00125 | 0.00925 | 1 | 05/26/2024 01:15 | WG2292331 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *05/26/2024 01:15* | WG2292331 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/26/2024 01:15* | WG2292331 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* | | *05/26/2024 01:15* | WG2292331 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0140 | 0.0404 | 1 | 05/28/2024 12:22 | WG2294060 |
| PCB 1221 | U | | 0.0140 | 0.0404 | 1 | 05/28/2024 12:22 | WG2294060 |
| PCB 1232 | U | | 0.0140 | 0.0404 | 1 | 05/28/2024 12:22 | WG2294060 |
| PCB 1242 | U | | 0.0140 | 0.0404 | 1 | 05/28/2024 12:22 | WG2294060 |
| PCB 1248 | U | | 0.00877 | 0.0202 | 1 | 05/28/2024 12:22 | WG2294060 |
| PCB 1254 | U | | 0.00877 | 0.0202 | 1 | 05/28/2024 12:22 | WG2294060 |
| PCB 1260 | U | | 0.00877 | 0.0202 | 1 | 05/28/2024 12:22 | WG2294060 |
| *(S) Decachlorobiphenyl* | *54.7* | | | *10.0-135* | | *05/28/2024 12:22* | WG2294060 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *59.9* | | | *10.0-139* | | *05/28/2024 12:22* | WG2294060 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.640 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Acenaphthylene | U | | 0.557 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Anthracene | U | | 0.705 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Benzidine | U | | 7.44 | 198 | 100 | 05/31/2024 11:45 | WG2294807 |
| Benzo(a)anthracene | U | | 0.697 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.738 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.703 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.724 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Benzo(a)pyrene | U | | 0.736 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 1.19 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 1.31 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 1.71 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 1.39 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.695 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 1.38 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Chrysene | U | | 0.787 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 1.10 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 1.17 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 1.20 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 1.18 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 1.46 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 1.13 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 1.30 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Fluoranthene | U | | 0.714 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Fluorene | U | | 0.644 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Hexachlorobenzene | U | | 1.40 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 1.33 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 2.08 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Hexachloroethane | U | | 1.56 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 1.12 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Isophorone | U | | 1.21 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Naphthalene | U | | 0.993 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Nitrobenzene | U | | 1.38 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| n-Nitrosodimethylamine | U | | 5.87 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 2.99 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 1.32 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Phenanthrene | U | | 0.785 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| Benzylbutyl phthalate | U | | 1.24 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 5.01 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Di-n-butyl phthalate | U | | 1.35 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Diethyl phthalate | U | | 1.31 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Dimethyl phthalate | U | | 8.39 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Di-n-octyl phthalate | U | | 2.67 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Pyrene | U | | 0.770 | 3.96 | 100 | 05/31/2024 11:45 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 1.24 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 1.28 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2-Chlorophenol | U | | 1.31 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2,4-Dichlorophenol | U | | 1.15 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2,4-Dimethylphenol | U | | 1.03 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 8.97 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2,4-Dinitrophenol | U | | 9.26 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 1.41 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 4-Nitrophenol | U | | 1.24 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Pentachlorophenol | U | | 1.06 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| Phenol | U | | 1.59 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 1.27 | 39.6 | 100 | 05/31/2024 11:45 | WG2294807 |
| *(S) 2-Fluorophenol* | *82.3* | J7 | | *12.0-120* | | *05/31/2024 11:45* | WG2294807 |
| *(S) Phenol-d5* | *78.3* | J7 | | *10.0-120* | | *05/31/2024 11:45* | WG2294807 |
| *(S) Nitrobenzene-d5* | *74.5* | J7 | | *10.0-122* | | *05/31/2024 11:45* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *81.1* | J7 | | *15.0-120* | | *05/31/2024 11:45* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *70.5* | J7 | | *10.0-127* | | *05/31/2024 11:45* | WG2294807 |
| *(S) p-Terphenyl-d14* | *106* | J7 | | *10.0-120* | | *05/31/2024 11:45* | WG2294807 |

**Sample Narrative:**

L1738627-24 WG2294807: Dilution due to matrix impact during concentration procedure. Surrogate failure due to matrix.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | | 1 | 05/22/2024 09:31 | WG2290916 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.188 | | 0.0208 | 0.0462 | 1 | 05/23/2024 10:57 | WG2290825 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 0.805 | J | 0.628 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| Arsenic | 2.56 | | 0.598 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| Barium | 162 | | 0.0983 | 0.577 | 1 | 05/26/2024 20:58 | WG2291331 |
| Beryllium | 0.219 | J | 0.0364 | 0.231 | 1 | 05/26/2024 20:58 | WG2291331 |
| Cadmium | 0.117 | J | 0.0544 | 0.577 | 1 | 05/26/2024 20:58 | WG2291331 |
| Chromium | 33.4 | | 0.153 | 1.15 | 1 | 05/26/2024 20:58 | WG2291331 |
| Cobalt | 5.71 | | 0.0936 | 1.15 | 1 | 05/26/2024 20:58 | WG2291331 |
| Copper | 13.9 | | 0.462 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| Lead | 23.7 | | 0.240 | 0.577 | 1 | 05/26/2024 20:58 | WG2291331 |
| Molybdenum | 0.795 | | 0.126 | 0.577 | 1 | 05/26/2024 20:58 | WG2291331 |
| Nickel | 29.5 | | 0.152 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| Selenium | U | | 0.882 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| Silver | 0.247 | J | 0.147 | 1.15 | 1 | 05/26/2024 20:58 | WG2291331 |
| Thallium | U | | 0.455 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| Vanadium | 34.2 | | 0.584 | 2.31 | 1 | 05/26/2024 20:58 | WG2291331 |
| Zinc | 47.0 | | 0.960 | 5.77 | 1 | 05/26/2024 20:58 | WG2291331 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 3.27 | J | 1.15 | 3.48 | 26.8 | 05/23/2024 15:23 | WG2291959 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.1* | | | *77.0-120* | | *05/23/2024 15:23* | WG2291959 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 96.7 | J | 33.8 | 185 | 40 | 05/24/2024 21:46 | WG2292509 |
| C22-C32 Hydrocarbons | 553 | | 61.4 | 185 | 40 | 05/24/2024 21:46 | WG2292509 |
| C32-C40 Hydrocarbons | 691 | | 61.4 | 185 | 40 | 05/24/2024 21:46 | WG2292509 |
| *(S) o-Terphenyl* | *88.7* | J7 | | *18.0-148* | | *05/24/2024 21:46* | WG2292509 |

**Sample Narrative:**

L1738627-25 WG2292509: Cannot run at lower dilution due to viscosity of extract.

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0125 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Acenaphthylene | U | | 0.0108 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Anthracene | U | | 0.0137 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Benzidine | U | | 0.144 | 3.85 | 2 | 05/31/2024 02:00 | WG2294807 |
| Benzo(a)anthracene | U | | 0.0135 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.0143 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(k)fluoranthene | U | | 0.0136 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0141 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Benzo(a)pyrene | U | | 0.0143 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0231 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0254 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0332 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0270 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0135 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0268 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Chrysene | U | | 0.0152 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0214 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0227 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0233 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0229 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0284 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0220 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0252 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Fluoranthene | U | | 0.0138 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Fluorene | U | | 0.0125 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Hexachlorobenzene | U | | 0.0272 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0259 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0404 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Hexachloroethane | U | | 0.0302 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0217 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Isophorone | U | | 0.0235 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Naphthalene | U | | 0.0193 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Nitrobenzene | U | | 0.0268 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.114 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.0582 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0256 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Phenanthrene | U | | 0.0152 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.0240 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0974 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.0263 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Diethyl phthalate | U | | 0.0254 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Dimethyl phthalate | U | | 0.163 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0519 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Pyrene | U | | 0.0150 | 0.0769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0240 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.0249 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2-Chlorophenol | U | | 0.0254 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0224 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0201 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.174 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.180 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2-Nitrophenol | U | | 0.0275 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 4-Nitrophenol | U | | 0.0240 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Pentachlorophenol | U | | 0.0207 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| Phenol | U | | 0.0309 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0247 | 0.769 | 2 | 05/31/2024 02:00 | WG2294807 |
| *(S) 2-Fluorophenol* | *71.4* | | | *12.0-120* | | *05/31/2024 02:00* | WG2294807 |
| *(S) Phenol-d5* | *72.3* | | | *10.0-120* | | *05/31/2024 02:00* | WG2294807 |
| *(S) Nitrobenzene-d5* | *57.6* | | | *10.0-122* | | *05/31/2024 02:00* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *76.8* | | | *15.0-120* | | *05/31/2024 02:00* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *74.2* | | | *10.0-127* | | *05/31/2024 02:00* | WG2294807 |
| *(S) p-Terphenyl-d14* | *92.3* | | | *10.0-120* | | *05/31/2024 02:00* | WG2294807 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

Sample Narrative:

L1738627-25 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.3 | | 1 | 05/22/2024 09:20 | WG2290917 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.34 | J | 1.47 | 4.44 | 30 | 05/23/2024 15:42 | WG2291959 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.5* | | | *77.0-120* | | *05/23/2024 15:42* | WG2291959 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0648 | 0.0888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Acrylonitrile | U | J4 | 0.00641 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Benzene | U | | 0.000829 | 0.00178 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Bromobenzene | U | | 0.00160 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Bromodichloromethane | U | | 0.00129 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Bromoform | U | | 0.00207 | 0.0444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Bromomethane | U | | 0.00349 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| n-Butylbenzene | U | | 0.00932 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| sec-Butylbenzene | U | | 0.00512 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| tert-Butylbenzene | U | | 0.00346 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Carbon tetrachloride | U | | 0.00160 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Chlorobenzene | U | | 0.000373 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Chlorodibromomethane | U | | 0.00109 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Chloroethane | U | | 0.00302 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Chloroform | U | | 0.00183 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Chloromethane | U | | 0.00772 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 2-Chlorotoluene | U | | 0.00154 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 4-Chlorotoluene | U | | 0.000799 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00693 | 0.0444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2-Dibromoethane | U | | 0.00115 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Dibromomethane | U | | 0.00133 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2-Dichlorobenzene | U | | 0.000755 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,3-Dichlorobenzene | U | | 0.00107 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,4-Dichlorobenzene | U | | 0.00124 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Dichlorodifluoromethane | U | | 0.00286 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,1-Dichloroethane | U | | 0.000872 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2-Dichloroethane | U | | 0.00115 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,1-Dichloroethene | U | | 0.00108 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| cis-1,2-Dichloroethene | U | | 0.00130 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| trans-1,2-Dichloroethene | U | | 0.00185 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2-Dichloropropane | U | | 0.00252 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,1-Dichloropropene | U | | 0.00144 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,3-Dichloropropane | U | | 0.000889 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| cis-1,3-Dichloropropene | U | | 0.00134 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| trans-1,3-Dichloropropene | U | | 0.00203 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 2,2-Dichloropropane | U | | 0.00246 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Di-isopropyl ether | U | | 0.000728 | 0.00178 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Ethylbenzene | U | | 0.00131 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Hexachloro-1,3-butadiene | U | J3 | 0.0107 | 0.0444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Isopropylbenzene | U | | 0.000755 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| p-Isopropyltoluene | U | | 0.00453 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 2-Butanone (MEK) | U | J4 | 0.113 | 0.178 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Methylene Chloride | U | | 0.0118 | 0.0444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00405 | 0.0444 | 1.2 | 05/26/2024 01:34 | WG2292331 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000622 | 0.00178 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Naphthalene | U | | 0.00867 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| n-Propylbenzene | U | | 0.00169 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Styrene | U | | 0.000407 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00169 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00123 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00134 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Tetrachloroethene | U | | 0.00160 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Toluene | U | | 0.00231 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2,3-Trichlorobenzene | U | | 0.0130 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2,4-Trichlorobenzene | U | | 0.00781 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,1,1-Trichloroethane | U | | 0.00164 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,1,2-Trichloroethane | U | | 0.00106 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Trichloroethene | U | | 0.00104 | 0.00178 | 1.2 | 05/27/2024 10:37 | WG2293785 |
| Trichlorofluoromethane | U | | 0.00147 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2,3-Trichloropropane | U | | 0.00287 | 0.0222 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2,4-Trimethylbenzene | U | | 0.00281 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,2,3-Trimethylbenzene | U | | 0.00281 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| 1,3,5-Trimethylbenzene | U | | 0.00355 | 0.00888 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Vinyl chloride | U | | 0.00206 | 0.00444 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| Xylenes, Total | U | | 0.00157 | 0.0115 | 1.2 | 05/26/2024 01:34 | WG2292331 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *05/26/2024 01:34* | WG2292331 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *05/27/2024 10:37* | WG2293785 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/26/2024 01:34* | WG2292331 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *67.0-138* | | *05/27/2024 10:37* | WG2293785 |
| *(S) 1,2-Dichloroethane-d4* | *95.6* | | | *70.0-130* | | *05/26/2024 01:34* | WG2292331 |
| *(S) 1,2-Dichloroethane-d4* | *99.7* | | | *70.0-130* | | *05/27/2024 10:37* | WG2293785 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 5.99 | | 0.925 | 5.05 | 1 | 05/24/2024 19:42 | WG2292509 |
| C22-C32 Hydrocarbons | 8.74 | | 1.68 | 5.05 | 1 | 05/24/2024 19:42 | WG2292509 |
| C32-C40 Hydrocarbons | 2.81 | J | 1.68 | 5.05 | 1 | 05/24/2024 19:42 | WG2292509 |
| *(S) o-Terphenyl* | *73.4* | | | *18.0-148* | | *05/24/2024 19:42* | WG2292509 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.8 | | 1 | 05/22/2024 09:20 | WG2290917 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0563 | 0.0771 | 1 | 05/26/2024 01:53 | WG2292331 |
| Acrylonitrile | U | J4 | 0.00557 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| Benzene | U | | 0.000720 | 0.00154 | 1 | 05/26/2024 01:53 | WG2292331 |
| Bromobenzene | U | | 0.00139 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| Bromodichloromethane | U | | 0.00112 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Bromoform | U | | 0.00180 | 0.0385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Bromomethane | U | | 0.00304 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| n-Butylbenzene | U | | 0.00810 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| sec-Butylbenzene | U | | 0.00444 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| tert-Butylbenzene | U | | 0.00301 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| Carbon tetrachloride | U | | 0.00138 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| Chlorobenzene | U | | 0.000324 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Chlorodibromomethane | U | | 0.000944 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Chloroethane | U | | 0.00262 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| Chloroform | U | | 0.00159 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Chloromethane | U | | 0.00671 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| 2-Chlorotoluene | U | | 0.00133 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 4-Chlorotoluene | U | | 0.000694 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00601 | 0.0385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2-Dibromoethane | U | | 0.000999 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Dibromomethane | U | | 0.00116 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2-Dichlorobenzene | U | | 0.000655 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,3-Dichlorobenzene | U | | 0.000925 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,4-Dichlorobenzene | U | | 0.00108 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| Dichlorodifluoromethane | U | | 0.00248 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,1-Dichloroethane | U | | 0.000757 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2-Dichloroethane | U | | 0.00100 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,1-Dichloroethene | U | | 0.000934 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| cis-1,2-Dichloroethene | U | | 0.00113 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| trans-1,2-Dichloroethene | U | | 0.00160 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2-Dichloropropane | U | | 0.00219 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,1-Dichloropropene | U | | 0.00125 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,3-Dichloropropane | U | | 0.000773 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| cis-1,3-Dichloropropene | U | | 0.00117 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| trans-1,3-Dichloropropene | U | | 0.00176 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 2,2-Dichloropropane | U | | 0.00213 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Di-isopropyl ether | U | | 0.000632 | 0.00154 | 1 | 05/26/2024 01:53 | WG2292331 |
| Ethylbenzene | U | | 0.00114 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00925 | 0.0385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Isopropylbenzene | U | | 0.000655 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| p-Isopropyltoluene | U | | 0.00393 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 2-Butanone (MEK) | U | J4 | 0.0979 | 0.154 | 1 | 05/26/2024 01:53 | WG2292331 |
| Methylene Chloride | U | | 0.0102 | 0.0385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00352 | 0.0385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Methyl tert-butyl ether | U | | 0.000540 | 0.00154 | 1 | 05/26/2024 01:53 | WG2292331 |
| Naphthalene | U | | 0.00752 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| n-Propylbenzene | U | | 0.00146 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| Styrene | U | | 0.000353 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00146 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00107 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00116 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Tetrachloroethene | U | | 0.00138 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Toluene | U | | 0.00200 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2,3-Trichlorobenzene | U | | 0.0113 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2,4-Trichlorobenzene | U | | 0.00678 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,1,1-Trichloroethane | U | | 0.00142 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,1,2-Trichloroethane | U | | 0.000921 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Trichloroethene | U | | 0.000900 | 0.00154 | 1 | 05/26/2024 01:53 | WG2292331 |
| Trichlorofluoromethane | U | | 0.00128 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2,3-Trichloropropane | U | | 0.00250 | 0.0193 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2,4-Trimethylbenzene | U | | 0.00244 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,2,3-Trimethylbenzene | U | | 0.00244 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| 1,3,5-Trimethylbenzene | U | | 0.00308 | 0.00771 | 1 | 05/26/2024 01:53 | WG2292331 |
| Vinyl chloride | U | | 0.00179 | 0.00385 | 1 | 05/26/2024 01:53 | WG2292331 |
| Xylenes, Total | U | | 0.00136 | 0.0100 | 1 | 05/26/2024 01:53 | WG2292331 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *05/26/2024 01:53* | WG2292331 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *05/26/2024 01:53* | WG2292331 |
| *(S) 1,2-Dichloroethane-d4* | *99.5* | | | *70.0-130* | | *05/26/2024 01:53* | WG2292331 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 82.6 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.118 | | 0.0218 | 0.0484 | 1 | 05/27/2024 13:55 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.658 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| Arsenic | 3.15 | | 0.627 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| Barium | 66.1 | | 0.103 | 0.605 | 1 | 06/01/2024 19:00 | WG2293711 |
| Beryllium | 0.188 | J | 0.0381 | 0.242 | 1 | 06/01/2024 19:00 | WG2293711 |
| Cadmium | 0.152 | J | 0.0570 | 0.605 | 1 | 06/01/2024 19:00 | WG2293711 |
| Chromium | 13.9 | | 0.161 | 1.21 | 1 | 06/01/2024 19:00 | WG2293711 |
| Cobalt | 7.60 | | 0.0981 | 1.21 | 1 | 06/01/2024 19:00 | WG2293711 |
| Copper | 44.6 | | 0.484 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| Lead | 40.8 | | 0.252 | 0.605 | 1 | 06/01/2024 19:00 | WG2293711 |
| Molybdenum | 0.479 | J | 0.132 | 0.605 | 1 | 06/01/2024 19:00 | WG2293711 |
| Nickel | 22.5 | | 0.160 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| Selenium | U | | 0.925 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| Silver | 0.500 | J | 0.154 | 1.21 | 1 | 06/01/2024 19:00 | WG2293711 |
| Thallium | 1.67 | J | 0.477 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| Vanadium | 28.4 | | 0.612 | 2.42 | 1 | 06/01/2024 19:00 | WG2293711 |
| Zinc | 68.4 | | 1.01 | 6.05 | 1 | 06/01/2024 19:00 | WG2293711 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0143 | 0.0411 | 1 | 05/28/2024 12:31 | WG2294060 |
| PCB 1221 | U | | 0.0143 | 0.0411 | 1 | 05/28/2024 12:31 | WG2294060 |
| PCB 1232 | U | | 0.0143 | 0.0411 | 1 | 05/28/2024 12:31 | WG2294060 |
| PCB 1242 | U | | 0.0143 | 0.0411 | 1 | 05/28/2024 12:31 | WG2294060 |
| PCB 1248 | U | | 0.00893 | 0.0206 | 1 | 05/28/2024 12:31 | WG2294060 |
| PCB 1254 | U | | 0.00893 | 0.0206 | 1 | 05/28/2024 12:31 | WG2294060 |
| PCB 1260 | U | | 0.00893 | 0.0206 | 1 | 05/28/2024 12:31 | WG2294060 |
| *(S) Decachlorobiphenyl* | *52.0* | | | *10.0-135* | | *05/28/2024 12:31* | WG2294060 |
| *(S) Tetrachloro-m-xylene* | *58.1* | | | *10.0-139* | | *05/28/2024 12:31* | WG2294060 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0131 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Acenaphthylene | U | | 0.0114 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Anthracene | U | | 0.0144 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Benzidine | U | | 0.151 | 4.04 | 2 | 05/31/2024 00:22 | WG2294807 |
| Benzo(a)anthracene | 0.0318 | J | 0.0142 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Benzo(b)fluoranthene | 0.0315 | J | 0.0150 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0143 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Benzo(g,h,i)perylene | 0.0201 | J | 0.0148 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Benzo(a)pyrene | 0.0298 | J | 0.0150 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0242 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0266 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0349 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0283 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0142 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0281 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Chrysene | 0.0317 | J | 0.0160 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0224 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0238 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0244 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0240 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0298 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0231 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0264 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Fluoranthene | 0.0650 | J | 0.0145 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Fluorene | U | | 0.0131 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Hexachlorobenzene | U | | 0.0286 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0271 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0424 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Hexachloroethane | U | | 0.0317 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | 0.0229 | J | 0.0227 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Isophorone | U | | 0.0247 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Naphthalene | U | | 0.0202 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Nitrobenzene | U | | 0.0281 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.120 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.0610 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0269 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Phenanthrene | 0.0273 | J | 0.0160 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.0252 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.102 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.0276 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Diethyl phthalate | U | | 0.0266 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Dimethyl phthalate | U | | 0.171 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0545 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Pyrene | 0.0598 | J | 0.0157 | 0.0806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0252 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.0261 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2-Chlorophenol | U | | 0.0266 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0235 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0211 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.183 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.189 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2-Nitrophenol | U | | 0.0288 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 4-Nitrophenol | U | | 0.0252 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Pentachlorophenol | U | | 0.0217 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| Phenol | U | | 0.0324 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0259 | 0.806 | 2 | 05/31/2024 00:22 | WG2294807 |
| *(S) 2-Fluorophenol* | *78.1* | | | *12.0-120* | | *05/31/2024 00:22* | WG2294807 |
| *(S) Phenol-d5* | *74.2* | | | *10.0-120* | | *05/31/2024 00:22* | WG2294807 |
| *(S) Nitrobenzene-d5* | *63.0* | | | *10.0-122* | | *05/31/2024 00:22* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *75.0* | | | *15.0-120* | | *05/31/2024 00:22* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *77.5* | | | *10.0-127* | | *05/31/2024 00:22* | WG2294807 |
| *(S) p-Terphenyl-d14* | *82.7* | | | *10.0-120* | | *05/31/2024 00:22* | WG2294807 |

**Sample Narrative:**

L1738627-30 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 85.7 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.150 | | 0.0210 | 0.0467 | 1 | 05/26/2024 22:05 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 2.51 | | 0.635 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| Arsenic | 6.20 | | 0.604 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| Barium | 160 | | 0.0994 | 0.583 | 1 | 05/30/2024 17:19 | WG2293709 |
| Beryllium | 0.467 | | 0.0368 | 0.233 | 1 | 05/30/2024 17:19 | WG2293709 |
| Cadmium | 0.174 | J | 0.0550 | 0.583 | 1 | 05/30/2024 17:19 | WG2293709 |
| Chromium | 32.2 | | 0.155 | 1.17 | 1 | 05/30/2024 17:19 | WG2293709 |
| Cobalt | 12.4 | | 0.0946 | 1.17 | 1 | 05/30/2024 17:19 | WG2293709 |
| Copper | 34.8 | J5 | 0.467 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| Lead | 59.1 | | 0.243 | 0.583 | 1 | 05/30/2024 17:19 | WG2293709 |
| Molybdenum | 0.156 | J | 0.127 | 0.583 | 1 | 05/30/2024 17:19 | WG2293709 |
| Nickel | 41.2 | | 0.154 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| Selenium | U | | 0.891 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| Silver | U | | 0.148 | 1.17 | 1 | 05/30/2024 17:19 | WG2293709 |
| Thallium | U | | 0.460 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| Vanadium | 59.6 | | 0.590 | 2.33 | 1 | 05/30/2024 17:19 | WG2293709 |
| Zinc | 98.9 | | 0.971 | 5.83 | 1 | 05/30/2024 17:19 | WG2293709 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0494 | 0.0676 | 1 | 05/28/2024 01:11 | WG2293465 |
| Acrylonitrile | U | | 0.00488 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| Benzene | U | | 0.000632 | 0.00135 | 1 | 05/28/2024 01:11 | WG2293465 |
| Bromobenzene | U | | 0.00122 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| Bromodichloromethane | U | | 0.000980 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Bromoform | U | | 0.00158 | 0.0338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Bromomethane | U | | 0.00266 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| n-Butylbenzene | U | | 0.00710 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| sec-Butylbenzene | U | | 0.00389 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| tert-Butylbenzene | U | | 0.00264 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| Carbon tetrachloride | U | | 0.00121 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| Chlorobenzene | U | | 0.000284 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Chlorodibromomethane | U | | 0.000828 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Chloroethane | U | | 0.00230 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| Chloroform | U | | 0.00139 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Chloromethane | U | | 0.00588 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00117 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000609 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00527 | 0.0338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.000876 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Dibromomethane | U | | 0.00101 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000575 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000811 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.000947 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00218 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000664 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.000878 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.000819 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| cis-1,2-Dichloroethene | U | | 0.000993 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| trans-1,2-Dichloroethene | U | | 0.00141 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00192 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00109 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000677 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.00102 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00154 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00187 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Di-isopropyl ether | U | | 0.000554 | 0.00135 | 1 | 05/28/2024 01:11 | WG2293465 |
| Ethylbenzene | U | | 0.000997 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00811 | 0.0338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Isopropylbenzene | U | | 0.000575 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00345 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.0859 | 0.135 | 1 | 05/28/2024 01:11 | WG2293465 |
| Methylene Chloride | U | | 0.00898 | 0.0338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00308 | 0.0338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Methyl tert-butyl ether | U | | 0.000473 | 0.00135 | 1 | 05/28/2024 01:11 | WG2293465 |
| Naphthalene | U | J3 | 0.00660 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| n-Propylbenzene | U | | 0.00128 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| Styrene | U | | 0.000310 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00128 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000940 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00102 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Tetrachloroethene | U | | 0.00121 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Toluene | U | | 0.00176 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.00991 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00595 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00125 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000807 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Trichloroethene | U | | 0.000790 | 0.00135 | 1 | 05/28/2024 01:11 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00112 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00219 | 0.0169 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00214 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00214 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00270 | 0.00676 | 1 | 05/28/2024 01:11 | WG2293465 |
| Vinyl chloride | U | | 0.00157 | 0.00338 | 1 | 05/28/2024 01:11 | WG2293465 |
| Xylenes, Total | U | | 0.00119 | 0.00879 | 1 | 05/28/2024 01:11 | WG2293465 |
| *(S) Toluene-d8* | *98.6* | | | *75.0-131* | | *05/28/2024 01:11* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *05/28/2024 01:11* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* | | *05/28/2024 01:11* | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0126 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Acenaphthylene | U | | 0.0109 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Anthracene | U | | 0.0139 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Benzidine | U | | 0.146 | 3.90 | 2 | 05/30/2024 23:57 | WG2294807 |
| Benzo(a)anthracene | U | | 0.0137 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.0145 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0138 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0142 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | U | | 0.0145 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.0233 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.0257 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0336 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.0273 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0137 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.0271 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Chrysene | U | | 0.0154 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.0216 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.0230 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.0236 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.0231 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.0287 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.0223 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.0254 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Fluoranthene | U | | 0.0140 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Fluorene | U | | 0.0126 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Hexachlorobenzene | U | | 0.0275 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.0261 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.0408 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Hexachloroethane | U | | 0.0306 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0219 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Isophorone | U | | 0.0238 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Naphthalene | U | | 0.0195 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Nitrobenzene | U | | 0.0271 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.115 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.0588 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.0259 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Phenanthrene | U | | 0.0154 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.0243 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0985 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.0266 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Diethyl phthalate | U | | 0.0257 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Dimethyl phthalate | U | | 0.165 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.0525 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Pyrene | U | | 0.0152 | 0.0777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.0243 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 4-Chloro-3-methylphenol | U | | 0.0252 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2-Chlorophenol | U | | 0.0257 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.0226 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.0203 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.176 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2,4-Dinitrophenol | U | | 0.182 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2-Nitrophenol | U | | 0.0278 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 4-Nitrophenol | U | | 0.0243 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Pentachlorophenol | U | | 0.0209 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| Phenol | U | | 0.0313 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.0250 | 0.777 | 2 | 05/30/2024 23:57 | WG2294807 |
| *(S) 2-Fluorophenol* | *83.4* | | | *12.0-120* | | *05/30/2024 23:57* | WG2294807 |
| *(S) Phenol-d5* | *80.6* | | | *10.0-120* | | *05/30/2024 23:57* | WG2294807 |
| *(S) Nitrobenzene-d5* | *65.2* | | | *10.0-122* | | *05/30/2024 23:57* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *83.7* | | | *15.0-120* | | *05/30/2024 23:57* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *90.1* | | | *10.0-127* | | *05/30/2024 23:57* | WG2294807 |
| *(S) p-Terphenyl-d14* | *94.4* | | | *10.0-120* | | *05/30/2024 23:57* | WG2294807 |

**Sample Narrative:**

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1738627-31 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 77.5 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0948 | | 0.0232 | 0.0516 | 1 | 05/27/2024 13:57 | WG2293349 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.702 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| Arsenic | 3.21 | | 0.668 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| Barium | 185 | | 0.110 | 0.645 | 1 | 06/01/2024 19:01 | WG2293711 |
| Beryllium | 0.491 | | 0.0406 | 0.258 | 1 | 06/01/2024 19:01 | WG2293711 |
| Cadmium | U | | 0.0608 | 0.645 | 1 | 06/01/2024 19:01 | WG2293711 |
| Chromium | 24.8 | | 0.172 | 1.29 | 1 | 06/01/2024 19:01 | WG2293711 |
| Cobalt | 13.7 | | 0.105 | 1.29 | 1 | 06/01/2024 19:01 | WG2293711 |
| Copper | 18.5 | | 0.516 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| Lead | 16.2 | | 0.268 | 0.645 | 1 | 06/01/2024 19:01 | WG2293711 |
| Molybdenum | U | | 0.141 | 0.645 | 1 | 06/01/2024 19:01 | WG2293711 |
| Nickel | 44.9 | | 0.170 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| Selenium | U | | 0.986 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| Silver | 0.608 | J | 0.164 | 1.29 | 1 | 06/01/2024 19:01 | WG2293711 |
| Thallium | 1.21 | J | 0.508 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| Vanadium | 35.6 | | 0.653 | 2.58 | 1 | 06/01/2024 19:01 | WG2293711 |
| Zinc | 40.9 | | 1.07 | 6.45 | 1 | 06/01/2024 19:01 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.82 | B J | 1.35 | 4.08 | 26 | 05/26/2024 03:59 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.1* | | | *77.0-120* | | *05/26/2024 03:59* | WG2293479 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0596 | 0.0815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Acrylonitrile | U | | 0.00588 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Benzene | U | | 0.000762 | 0.00163 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Bromobenzene | U | | 0.00147 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Bromodichloromethane | U | | 0.00118 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Bromoform | U | | 0.00191 | 0.0408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Bromomethane | U | | 0.00321 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| n-Butylbenzene | U | | 0.00856 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| sec-Butylbenzene | U | | 0.00470 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| tert-Butylbenzene | U | | 0.00318 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Carbon tetrachloride | U | | 0.00146 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Chlorobenzene | U | | 0.000342 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Chlorodibromomethane | U | | 0.000997 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Chloroethane | U | | 0.00278 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Chloroform | U | | 0.00168 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Chloromethane | U | | 0.00709 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00141 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000734 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00637 | 0.0408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Dibromomethane | U | | 0.00122 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000693 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.000978 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.00114 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Dichlorodifluoromethane | U | | 0.00262 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000801 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.00106 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.000988 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| cis-1,2-Dichloroethene | U | | 0.00120 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| trans-1,2-Dichloroethene | U | | 0.00169 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00232 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00132 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000817 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.00123 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00187 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00226 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Di-isopropyl ether | U | | 0.000668 | 0.00163 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Ethylbenzene | U | | 0.00120 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.00978 | 0.0408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Isopropylbenzene | U | | 0.000693 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00415 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.103 | 0.163 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Methylene Chloride | U | | 0.0108 | 0.0408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00372 | 0.0408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Methyl tert-butyl ether | U | | 0.000571 | 0.00163 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Naphthalene | U | J3 | 0.00796 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| n-Propylbenzene | U | | 0.00155 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Styrene | U | | 0.000373 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00155 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00113 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00123 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Tetrachloroethene | U | | 0.00146 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Toluene | U | | 0.00212 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.0119 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00718 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00151 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.000974 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Trichloroethene | U | | 0.000952 | 0.00163 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00135 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00263 | 0.0204 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00257 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00257 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00326 | 0.00815 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Vinyl chloride | U | | 0.00190 | 0.00408 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| Xylenes, Total | U | | 0.00143 | 0.0106 | 1.04 | 05/28/2024 01:30 | WG2293465 |
| *(S) Toluene-d8* | *99.3* | | | *75.0-131* | | *05/28/2024 01:30* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/28/2024 01:30* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* | | *05/28/2024 01:30* | WG2293465 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 9.78 | J | 4.73 | 25.8 | 5 | 05/30/2024 19:11 | WG2295238 |
| C22-C32 Hydrocarbons | 75.0 | | 8.58 | 25.8 | 5 | 05/30/2024 19:11 | WG2295238 |
| C32-C40 Hydrocarbons | 61.0 | | 8.58 | 25.8 | 5 | 05/30/2024 19:11 | WG2295238 |
| *(S) o-Terphenyl* | *62.6* | | | *18.0-148* | | *05/30/2024 19:11* | WG2295238 |

**Sample Narrative:**

L1738627-32 WG2295238: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0695 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Acenaphthylene | U | | 0.0605 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Anthracene | U | | 0.0765 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Benzidine | U | | 0.808 | 21.5 | 10 | 05/31/2024 04:02 | WG2294807 |
| Benzo(a)anthracene | U | | 0.0757 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Benzo(b)fluoranthene | U | | 0.0801 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Benzo(k)fluoranthene | U | | 0.0764 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Benzo(g,h,i)perylene | U | | 0.0786 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Benzo(a)pyrene | U | | 0.0799 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Bis(2-chlorethoxy)methane | U | | 0.129 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Bis(2-chloroethyl)ether | U | | 0.142 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.186 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 4-Bromophenyl-phenylether | U | | 0.151 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2-Chloronaphthalene | U | | 0.0755 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| 4-Chlorophenyl-phenylether | U | | 0.150 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Chrysene | U | | 0.0854 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Dibenz(a,h)anthracene | U | | 0.119 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| 1,2-Dichlorobenzene | U | | 0.127 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 1,3-Dichlorobenzene | U | | 0.130 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 1,4-Dichlorobenzene | U | | 0.128 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 3,3-Dichlorobenzidine | U | | 0.159 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2,4-Dinitrotoluene | U | | 0.123 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2,6-Dinitrotoluene | U | | 0.141 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Fluoranthene | U | | 0.0775 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Fluorene | U | | 0.0699 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Hexachlorobenzene | U | | 0.152 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Hexachloro-1,3-butadiene | U | | 0.144 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Hexachlorocyclopentadiene | U | | 0.226 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Hexachloroethane | U | | 0.169 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Indeno(1,2,3-cd)pyrene | U | | 0.121 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Isophorone | U | | 0.132 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Naphthalene | U | | 0.108 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Nitrobenzene | U | | 0.150 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| n-Nitrosodimethylamine | U | | 0.637 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| n-Nitrosodiphenylamine | U | | 0.325 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| n-Nitrosodi-n-propylamine | U | | 0.143 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Phenanthrene | U | | 0.0853 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| Benzylbutyl phthalate | U | | 0.134 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Bis(2-ethylhexyl)phthalate | U | | 0.544 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Di-n-butyl phthalate | U | | 0.147 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Diethyl phthalate | U | | 0.142 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Dimethyl phthalate | U | | 0.911 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Di-n-octyl phthalate | U | | 0.290 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Pyrene | U | | 0.0836 | 0.430 | 10 | 05/31/2024 04:02 | WG2294807 |
| 1,2,4-Trichlorobenzene | U | | 0.134 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.139 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2-Chlorophenol | U | | 0.142 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2,4-Dichlorophenol | U | | 0.125 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2,4-Dimethylphenol | U | | 0.112 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 4,6-Dinitro-2-methylphenol | U | | 0.974 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2,4-Dinitrophenol | U | | 1.00 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2-Nitrophenol | U | | 0.154 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 4-Nitrophenol | U | | 0.134 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Pentachlorophenol | U | | 0.116 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| Phenol | U | | 0.173 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| 2,4,6-Trichlorophenol | U | | 0.138 | 4.30 | 10 | 05/31/2024 04:02 | WG2294807 |
| *(S) 2-Fluorophenol* | *92.9* | | | *12.0-120* | | *05/31/2024 04:02* | WG2294807 |
| *(S) Phenol-d5* | *81.3* | | | *10.0-120* | | *05/31/2024 04:02* | WG2294807 |
| *(S) Nitrobenzene-d5* | *67.1* | | | *10.0-122* | | *05/31/2024 04:02* | WG2294807 |
| *(S) 2-Fluorobiphenyl* | *86.2* | | | *15.0-120* | | *05/31/2024 04:02* | WG2294807 |
| *(S) 2,4,6-Tribromophenol* | *84.5* | | | *10.0-127* | | *05/31/2024 04:02* | WG2294807 |
| *(S) p-Terphenyl-d14* | *89.3* | | | *10.0-120* | | *05/31/2024 04:02* | WG2294807 |

**Sample Narrative:**

L1738627-32 WG2294807: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.3 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.83 | B J | 1.39 | 4.20 | 25 | 05/26/2024 04:19 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *05/26/2024 04:19* | WG2293479 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0613 | 0.0840 | 1 | 05/28/2024 01:49 | WG2293465 |
| Acrylonitrile | U | | 0.00606 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| Benzene | U | | 0.000785 | 0.00168 | 1 | 05/28/2024 01:49 | WG2293465 |
| Bromobenzene | U | | 0.00151 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| Bromodichloromethane | U | | 0.00122 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Bromoform | U | | 0.00197 | 0.0420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Bromomethane | U | | 0.00331 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| n-Butylbenzene | U | | 0.00882 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| sec-Butylbenzene | U | | 0.00484 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| tert-Butylbenzene | U | | 0.00328 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| Carbon tetrachloride | U | | 0.00151 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| Chlorobenzene | U | | 0.000353 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Chlorodibromomethane | U | | 0.00103 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Chloroethane | U | | 0.00286 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| Chloroform | U | | 0.00173 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Chloromethane | U | | 0.00731 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| 2-Chlorotoluene | U | | 0.00145 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 4-Chlorotoluene | U | J4 | 0.000756 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00655 | 0.0420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2-Dibromoethane | U | | 0.00109 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Dibromomethane | U | | 0.00126 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2-Dichlorobenzene | U | | 0.000714 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,3-Dichlorobenzene | U | | 0.00101 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,4-Dichlorobenzene | U | | 0.00118 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| Dichlorodifluoromethane | U | | 0.00270 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,1-Dichloroethane | U | | 0.000825 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2-Dichloroethane | U | | 0.00109 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,1-Dichloroethene | U | | 0.00102 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| cis-1,2-Dichloroethene | U | | 0.00123 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| trans-1,2-Dichloroethene | U | | 0.00175 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2-Dichloropropane | U | | 0.00239 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,1-Dichloropropene | U | | 0.00136 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,3-Dichloropropane | U | | 0.000842 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| cis-1,3-Dichloropropene | U | | 0.00127 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| trans-1,3-Dichloropropene | U | | 0.00192 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 2,2-Dichloropropane | U | | 0.00232 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Di-isopropyl ether | U | | 0.000689 | 0.00168 | 1 | 05/28/2024 01:49 | WG2293465 |
| Ethylbenzene | U | | 0.00124 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Hexachloro-1,3-butadiene | U | | 0.0101 | 0.0420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Isopropylbenzene | U | | 0.000714 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| p-Isopropyltoluene | U | | 0.00428 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 2-Butanone (MEK) | U | J4 | 0.107 | 0.168 | 1 | 05/28/2024 01:49 | WG2293465 |
| Methylene Chloride | U | | 0.0112 | 0.0420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00383 | 0.0420 | 1 | 05/28/2024 01:49 | WG2293465 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000588 | 0.00168 | 1 | 05/28/2024 01:49 | WG2293465 |
| Naphthalene | U | J3 | 0.00820 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| n-Propylbenzene | U | | 0.00160 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| Styrene | U | | 0.000385 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00159 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00117 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00127 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Tetrachloroethene | U | | 0.00151 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Toluene | U | | 0.00218 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2,3-Trichlorobenzene | U | | 0.0123 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2,4-Trichlorobenzene | U | | 0.00739 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,1,1-Trichloroethane | U | | 0.00155 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,1,2-Trichloroethane | U | | 0.00100 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Trichloroethene | U | | 0.000981 | 0.00168 | 1 | 05/28/2024 01:49 | WG2293465 |
| Trichlorofluoromethane | U | | 0.00139 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2,3-Trichloropropane | U | | 0.00272 | 0.0210 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2,4-Trimethylbenzene | U | | 0.00265 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,2,3-Trimethylbenzene | U | | 0.00265 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| 1,3,5-Trimethylbenzene | U | | 0.00336 | 0.00840 | 1 | 05/28/2024 01:49 | WG2293465 |
| Vinyl chloride | U | | 0.00195 | 0.00420 | 1 | 05/28/2024 01:49 | WG2293465 |
| Xylenes, Total | U | | 0.00148 | 0.0109 | 1 | 05/28/2024 01:49 | WG2293465 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *05/28/2024 01:49* | WG2293465 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/28/2024 01:49* | WG2293465 |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* | | *05/28/2024 01:49* | WG2293465 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 9.60 | 52.4 | 10 | 05/30/2024 19:25 | WG2295238 |
| C22-C32 Hydrocarbons | 173 | | 17.4 | 52.4 | 10 | 05/30/2024 19:25 | WG2295238 |
| C32-C40 Hydrocarbons | 212 | | 17.4 | 52.4 | 10 | 05/30/2024 19:25 | WG2295238 |
| *(S) o-Terphenyl* | *66.5* | | | *18.0-148* | | *05/30/2024 19:25* | WG2295238 |

**Sample Narrative:**

L1738627-34 WG2295238: Cannot run at lower dilution due to viscosity of extract

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/23/2024 18:44 | WG2290665 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Arsenic | U | | 0.180 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Barium | 0.503 | J | 0.381 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Chromium | 1.49 | J | 1.24 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Copper | U | | 1.51 | 5.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Cobalt | U | | 0.0596 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Lead | U | | 0.849 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Molybdenum | 0.711 | J | 0.348 | 5.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Nickel | U | | 0.816 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Selenium | U | | 0.300 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Silver | U | | 0.0700 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Thallium | U | | 0.121 | 2.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Vanadium | U | | 0.664 | 5.00 | 1 | 05/29/2024 22:50 | WG2294310 |
| Zinc | U | | 3.02 | 25.0 | 1 | 05/29/2024 22:50 | WG2294310 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 05/28/2024 15:16 | WG2294088 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *78.0-120* | | *05/28/2024 15:16* | WG2294088 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 05/27/2024 00:16 | WG2293723 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/27/2024 00:16 | WG2293723 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/27/2024 00:16 | WG2293723 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| n-Butylbenzene | U | J3 | 0.157 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/27/2024 00:16 | WG2293723 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/27/2024 00:16 | WG2293723 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/27/2024 00:16 | WG2293723 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/27/2024 00:16 | WG2293723 |
| *(S) Toluene-d8* | *113* | | | *80.0-120* | | *05/27/2024 00:16* | WG2293723 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *77.0-126* | | *05/27/2024 00:16* | WG2293723 |
| *(S) 1,2-Dichloroethane-d4* | *97.4* | | | *70.0-130* | | *05/27/2024 00:16* | WG2293723 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 11:40 | WG2296791 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 11:40 | WG2296791 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 11:40 | WG2296791 |
| *(S) o-Terphenyl* | *67.4* | | | *52.0-156* | | *06/02/2024 11:40* | WG2296791 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 05/26/2024 17:45 | WG2293723 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/26/2024 17:45 | WG2293723 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/26/2024 17:45 | WG2293723 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| n-Butylbenzene | U | J3 | 0.157 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/26/2024 17:45 | WG2293723 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/26/2024 17:45 | WG2293723 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/26/2024 17:45 | WG2293723 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |

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

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/26/2024 17:45 | WG2293723 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *05/26/2024 17:45* | WG2293723 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *77.0-126* | | *05/26/2024 17:45* | WG2293723 |
| *(S) 1,2-Dichloroethane-d4* | *95.2* | | | *70.0-130* | | *05/26/2024 17:45* | WG2293723 |

# QUALITY CONTROL SUMMARY

L1738627-15,17,18,19,20,22,23,24,25

## Method Blank (MB)

(MB) R4073048-1 05/22/24 09:31

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

## L1738627-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1738627-17 05/22/24 09:31 • (DUP) R4073048-3 05/22/24 09:31

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.0 | 84.6 | 1 | 0.729 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4073048-2 05/22/24 09:31

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4073045-1 05/22/24 09:20

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

## L1738653-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1738653-08 05/22/24 09:20 • (DUP) R4073045-3 05/22/24 09:20

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 95.5 | 94.8 | 1 | 0.708 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4073045-2 05/22/24 09:20

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1738627-01,02,03,05,06,07,08,10,11,12

## Method Blank (MB)

(MB) R4074378-1 05/27/24 07:43

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

## L1738627-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1738627-06 05/27/24 07:43 • (DUP) R4074378-3 05/27/24 07:43

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 89.7 | 88.2 | 1 | 1.66 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074378-2 05/27/24 07:43

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1738627-13,30,31,32,34

## Method Blank (MB)

(MB) R4074377-1 05/27/24 07:35

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

## L1738627-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1738627-31 05/27/24 07:35 • (DUP) R4074377-3 05/27/24 07:35

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 85.7 | 87.1 | 1 | 1.65 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074377-2 05/27/24 07:35

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4079931-1 06/10/24 16:19

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

## L1742995-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1742995-03 06/10/24 16:19 • (DUP) R4079931-3 06/10/24 16:19

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 85.8 | 86.5 | 1 | 0.780 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4079931-2 06/10/24 16:19

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

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

## Method Blank (MB)

(MB) R4073565-1 05/23/24 18:22

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4073565-2 05/23/24 18:24

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 2.94 | 97.8 | 80.0-120 | |

## L1738614-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738614-05 05/23/24 18:26 • (MS) R4073565-4 05/23/24 18:36 • (MSD) R4073565-5 05/23/24 18:39

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 3.08 | 3.12 | 103 | 104 | 1 | 75.0-125 | | | 1.33 | 20 |

## Method Blank (MB)

(MB) R4073287-6 05/23/24 13:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4073287-2 05/23/24 10:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.537 | 107 | 80.0-120 | |

## L1738612-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738612-02 05/23/24 10:09 • (MS) R4073287-4 05/23/24 10:15 • (MSD) R4073287-5 05/23/24 10:22

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.559 | 0.0611 | 0.631 | 0.663 | 102 | 108 | 1 | 75.0-125 | | | 4.99 | 20 |

# QUALITY CONTROL SUMMARY

L1738627-31

## Method Blank (MB)

(MB) R4074249-1 05/26/24 21:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4074249-2 05/26/24 21:52

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.495 | 98.9 | 80.0-120 | |

## L1739687-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739687-26 05/26/24 21:55 • (MS) R4074249-4 05/26/24 22:00 • (MSD) R4074249-5 05/26/24 22:02

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | U | 0.478 | 0.434 | 95.6 | 86.8 | 1 | 75.0-125 | | | 9.69 | 20 |

# QUALITY CONTROL SUMMARY

L1738627-01,02,03,06,07,08,11,12,13,24,30,32

## Method Blank (MB)

(MB) R4074311-1 05/27/24 13:04

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4074311-2 05/27/24 13:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.525 | 105 | 80.0-120 | |

## L1739687-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739687-08 05/27/24 13:09 • (MS) R4074311-4 05/27/24 13:19 • (MSD) R4074311-5 05/27/24 13:22

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | 0.0690 | 0.640 | 0.495 | 114 | 85.1 | 1 | 75.0-125 | | J3 | 25.7 | 20 |

## Method Blank (MB)

(MB) R4074226-1 05/26/24 19:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4074226-2 05/26/24 19:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 97.8 | 97.8 | 80.0-120 | |
| Arsenic | 100 | 98.5 | 98.5 | 80.0-120 | |
| Barium | 100 | 99.1 | 99.1 | 80.0-120 | |
| Beryllium | 100 | 98.6 | 98.6 | 80.0-120 | |
| Cadmium | 100 | 95.8 | 95.8 | 80.0-120 | |
| Chromium | 100 | 98.3 | 98.3 | 80.0-120 | |
| Cobalt | 100 | 97.1 | 97.1 | 80.0-120 | |
| Copper | 100 | 94.7 | 94.7 | 80.0-120 | |
| Lead | 100 | 99.6 | 99.6 | 80.0-120 | |
| Molybdenum | 100 | 101 | 101 | 80.0-120 | |
| Nickel | 100 | 98.0 | 98.0 | 80.0-120 | |
| Selenium | 100 | 97.4 | 97.4 | 80.0-120 | |
| Silver | 20.0 | 19.6 | 97.9 | 80.0-120 | |
| Thallium | 100 | 105 | 105 | 80.0-120 | |
| Vanadium | 100 | 94.1 | 94.1 | 80.0-120 | |
| Zinc | 100 | 95.9 | 95.9 | 80.0-120 | |

## L1738154-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738154-09 05/26/24 19:31 • (MS) R4074226-5 05/26/24 19:41 • (MSD) R4074226-6 05/26/24 19:45

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 100 | 3.60 | 46.0 | 48.3 | 42.4 | 44.7 | 1 | 75.0-125 | J6 | J6 | 4.81 | 20 |
| Arsenic | 100 | 14.9 | 109 | 108 | 93.8 | 92.7 | 1 | 75.0-125 | | | 1.09 | 20 |
| Barium | 100 | 29.1 | 124 | 123 | 95.1 | 94.2 | 1 | 75.0-125 | | | 0.743 | 20 |
| Beryllium | 100 | 0.887 | 96.9 | 95.4 | 96.0 | 94.5 | 1 | 75.0-125 | | | 1.59 | 20 |
| Cadmium | 100 | U | 93.9 | 92.0 | 93.9 | 92.0 | 1 | 75.0-125 | | | 2.05 | 20 |
| Chromium | 100 | 32.1 | 132 | 130 | 100 | 97.5 | 1 | 75.0-125 | | | 1.90 | 20 |
| Cobalt | 100 | 8.73 | 105 | 104 | 96.2 | 94.8 | 1 | 75.0-125 | | | 1.38 | 20 |
| Copper | 100 | 24.0 | 125 | 125 | 101 | 100 | 1 | 75.0-125 | | | 0.722 | 20 |
| Lead | 100 | 35.3 | 128 | 126 | 92.7 | 90.3 | 1 | 75.0-125 | | | 1.90 | 20 |
| Molybdenum | 100 | 0.742 | 89.2 | 88.6 | 88.5 | 87.8 | 1 | 75.0-125 | | | 0.755 | 20 |
| Nickel | 100 | 24.6 | 124 | 123 | 98.9 | 98.1 | 1 | 75.0-125 | | | 0.691 | 20 |
| Selenium | 100 | U | 94.3 | 91.2 | 94.3 | 91.2 | 1 | 75.0-125 | | | 3.35 | 20 |
| Silver | 20.0 | 0.226 | 20.4 | 20.1 | 101 | 99.5 | 1 | 75.0-125 | | | 1.41 | 20 |
| Thallium | 100 | U | 97.0 | 94.4 | 97.0 | 94.4 | 1 | 75.0-125 | | | 2.71 | 20 |
| Vanadium | 100 | 85.0 | 169 | 169 | 83.8 | 83.9 | 1 | 75.0-125 | | | 0.0852 | 20 |
| Zinc | 100 | 63.8 | 156 | 156 | 92.3 | 92.1 | 1 | 75.0-125 | | | 0.126 | 20 |

# QUALITY CONTROL SUMMARY

L1738627-18,19,20,23

## Method Blank (MB)

(MB) R4074241-1 05/26/24 19:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | 0.110 | J | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4074241-2 05/26/24 19:22

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 94.8 | 94.8 | 80.0-120 | |
| Arsenic | 100 | 94.4 | 94.4 | 80.0-120 | |
| Barium | 100 | 97.5 | 97.5 | 80.0-120 | |
| Beryllium | 100 | 97.3 | 97.3 | 80.0-120 | |
| Cadmium | 100 | 93.7 | 93.7 | 80.0-120 | |
| Chromium | 100 | 98.5 | 98.5 | 80.0-120 | |
| Cobalt | 100 | 92.0 | 92.0 | 80.0-120 | |
| Copper | 100 | 100 | 100 | 80.0-120 | |
| Lead | 100 | 95.4 | 95.4 | 80.0-120 | |
| Molybdenum | 100 | 96.8 | 96.8 | 80.0-120 | |
| Nickel | 100 | 92.0 | 92.0 | 80.0-120 | |
| Selenium | 100 | 93.2 | 93.2 | 80.0-120 | |
| Silver | 20.0 | 17.5 | 87.4 | 80.0-120 | |
| Thallium | 100 | 96.8 | 96.8 | 80.0-120 | |
| Vanadium | 100 | 94.7 | 94.7 | 80.0-120 | |
| Zinc | 100 | 95.7 | 95.7 | 80.0-120 | |

## L1738627-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738627-18 05/26/24 19:24 • (MS) R4074241-5 05/26/24 19:29 • (MSD) R4074241-6 05/26/24 19:31

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 110 | 14.1 | 72.7 | 64.0 | 53.4 | 45.4 | 1 | 75.0-125 | J6 | J6 | 12.8 | 20 |
| Arsenic | 110 | 19.9 | 113 | 108 | 84.5 | 80.7 | 1 | 75.0-125 | | | 3.78 | 20 |
| Barium | 110 | 752 | 933 | 1090 | 165 | 308 | 1 | 75.0-125 | V | V | 15.6 | 20 |
| Beryllium | 110 | 0.327 | 102 | 96.9 | 92.5 | 87.9 | 1 | 75.0-125 | | | 5.02 | 20 |
| Cadmium | 110 | 45.8 | 135 | 157 | 80.8 | 102 | 1 | 75.0-125 | | | 15.7 | 20 |
| Chromium | 110 | 56.8 | 149 | 177 | 84.0 | 110 | 1 | 75.0-125 | | | 17.4 | 20 |
| Cobalt | 110 | 19.7 | 111 | 105 | 82.9 | 77.7 | 1 | 75.0-125 | | | 5.28 | 20 |
| Copper | 110 | 984 | 772 | 962 | 0.000 | 0.000 | 1 | 75.0-125 | V | J3 V | 21.8 | 20 |
| Lead | 110 | 1210 | 2560 | 1960 | 1230 | 686 | 1 | 75.0-125 | V | J3 V | 26.3 | 20 |
| Molybdenum | 110 | 7.60 | 96.1 | 97.9 | 80.6 | 82.2 | 1 | 75.0-125 | | | 1.85 | 20 |
| Nickel | 110 | 99.0 | 173 | 194 | 67.6 | 86.6 | 1 | 75.0-125 | J6 | | 11.4 | 20 |
| Selenium | 110 | U | 100 | 95.7 | 91.5 | 87.2 | 1 | 75.0-125 | | | 4.79 | 20 |
| Silver | 22.0 | U | 17.0 | 16.1 | 77.6 | 73.4 | 1 | 75.0-125 | | J6 | 5.51 | 20 |
| Thallium | 110 | 6.88 | 102 | 98.6 | 87.0 | 83.5 | 1 | 75.0-125 | | | 3.74 | 20 |
| Vanadium | 110 | 59.2 | 160 | 161 | 92.0 | 92.6 | 1 | 75.0-125 | | | 0.378 | 20 |
| Zinc | 110 | 2830 | 3080 | 3390 | 226 | 505 | 1 | 75.0-125 | E V | E V | 9.46 | 20 |

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## Method Blank (MB)

(MB) R4075596-1 05/30/24 17:13

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4075596-2 05/30/24 17:16

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 98.6 | 98.6 | 80.0-120 | |
| Arsenic | 100 | 102 | 102 | 80.0-120 | |
| Barium | 100 | 100 | 100 | 80.0-120 | |
| Beryllium | 100 | 95.5 | 95.5 | 80.0-120 | |
| Cadmium | 100 | 101 | 101 | 80.0-120 | |
| Chromium | 100 | 99.5 | 99.5 | 80.0-120 | |
| Cobalt | 100 | 98.9 | 98.9 | 80.0-120 | |
| Copper | 100 | 95.1 | 95.1 | 80.0-120 | |
| Lead | 100 | 99.0 | 99.0 | 80.0-120 | |
| Molybdenum | 100 | 101 | 101 | 80.0-120 | |
| Nickel | 100 | 100 | 100 | 80.0-120 | |
| Selenium | 100 | 95.9 | 95.9 | 80.0-120 | |
| Silver | 20.0 | 17.4 | 86.8 | 80.0-120 | |
| Thallium | 100 | 103 | 103 | 80.0-120 | |
| Vanadium | 100 | 90.8 | 90.8 | 80.0-120 | |
| Zinc | 100 | 99.6 | 99.6 | 80.0-120 | |

## L1738627-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738627-31 05/30/24 17:19 • (MS) R4075596-5 05/30/24 17:29 • (MSD) R4075596-6 05/30/24 17:33

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 117 | 2.51 | 101 | 97.3 | 84.3 | 81.2 | 1 | 75.0-125 | | | 3.67 | 20 |
| Arsenic | 117 | 6.20 | 123 | 119 | 100 | 96.6 | 1 | 75.0-125 | | | 3.29 | 20 |
| Barium | 117 | 160 | 264 | 269 | 89.3 | 93.9 | 1 | 75.0-125 | | | 2.01 | 20 |
| Beryllium | 117 | 0.467 | 114 | 110 | 97.4 | 94.1 | 1 | 75.0-125 | | | 3.45 | 20 |
| Cadmium | 117 | 0.174 | 120 | 117 | 103 | 100 | 1 | 75.0-125 | | | 3.06 | 20 |
| Chromium | 117 | 32.2 | 150 | 144 | 101 | 95.9 | 1 | 75.0-125 | | | 4.18 | 20 |
| Cobalt | 117 | 12.4 | 126 | 128 | 97.4 | 99.3 | 1 | 75.0-125 | | | 1.77 | 20 |
| Copper | 117 | 34.8 | 193 | 183 | 135 | 127 | 1 | 75.0-125 | J5 | J5 | 4.99 | 20 |
| Lead | 117 | 59.1 | 157 | 154 | 83.6 | 81.2 | 1 | 75.0-125 | | | 1.83 | 20 |
| Molybdenum | 117 | 0.156 | 114 | 108 | 97.7 | 92.4 | 1 | 75.0-125 | | | 5.60 | 20 |
| Nickel | 117 | 41.2 | 151 | 151 | 94.2 | 94.1 | 1 | 75.0-125 | | | 0.0257 | 20 |
| Selenium | 117 | U | 110 | 106 | 94.7 | 91.3 | 1 | 75.0-125 | | | 3.68 | 20 |
| Silver | 23.3 | U | 20.6 | 19.9 | 88.3 | 85.1 | 1 | 75.0-125 | | | 3.69 | 20 |
| Thallium | 117 | U | 119 | 117 | 102 | 100 | 1 | 75.0-125 | | | 1.31 | 20 |
| Vanadium | 117 | 59.6 | 162 | 162 | 88.1 | 87.7 | 1 | 75.0-125 | | | 0.289 | 20 |
| Zinc | 117 | 98.9 | 222 | 226 | 106 | 109 | 1 | 75.0-125 | | | 1.64 | 20 |

# QUALITY CONTROL SUMMARY

L1738627-01,02,03,06,07,08,11,12,13,24,30,32

## Method Blank (MB)

(MB) R4076238-1 06/01/24 18:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | 0.113 | J | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4076238-2 06/01/24 18:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 102 | 102 | 80.0-120 | |
| Arsenic | 100 | 107 | 107 | 80.0-120 | |
| Barium | 100 | 107 | 107 | 80.0-120 | |
| Beryllium | 100 | 105 | 105 | 80.0-120 | |
| Cadmium | 100 | 104 | 104 | 80.0-120 | |
| Chromium | 100 | 109 | 109 | 80.0-120 | |
| Cobalt | 100 | 100 | 100 | 80.0-120 | |
| Copper | 100 | 108 | 108 | 80.0-120 | |
| Lead | 100 | 103 | 103 | 80.0-120 | |
| Molybdenum | 100 | 107 | 107 | 80.0-120 | |
| Nickel | 100 | 105 | 105 | 80.0-120 | |
| Selenium | 100 | 101 | 101 | 80.0-120 | |
| Silver | 20.0 | 19.4 | 97.0 | 80.0-120 | |
| Thallium | 100 | 105 | 105 | 80.0-120 | |
| Vanadium | 100 | 103 | 103 | 80.0-120 | |
| Zinc | 100 | 104 | 104 | 80.0-120 | |

# WG2293711

Metals (ICP) by Method 6010B

# QUALITY CONTROL SUMMARY

L1738627-01,02,03,06,07,08,11,12,13,24,30,32

## L1739664-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739664-18 06/01/24 18:32 • (MS) R4076238-5 06/01/24 18:37 • (MSD) R4076238-6 06/01/24 18:38

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 118 | U | 72.2 | 82.9 | 60.9 | 70.0 | 1 | 75.0-125 | J6 | J6 | 13.9 | 20 |
| Arsenic | 118 | 3.17 | 98.8 | 112 | 80.7 | 92.2 | 1 | 75.0-125 | | | 12.9 | 20 |
| Barium | 118 | 70.4 | 165 | 196 | 79.5 | 106 | 1 | 75.0-125 | | | 17.6 | 20 |
| Beryllium | 118 | 0.379 | 93.0 | 108 | 78.2 | 91.0 | 1 | 75.0-125 | | | 15.1 | 20 |
| Cadmium | 118 | 1.24 | 97.0 | 108 | 80.8 | 90.1 | 1 | 75.0-125 | | | 10.7 | 20 |
| Chromium | 118 | 38.2 | 137 | 144 | 83.8 | 89.8 | 1 | 75.0-125 | | | 5.02 | 20 |
| Cobalt | 118 | 2.78 | 90.8 | 108 | 74.3 | 88.9 | 1 | 75.0-125 | J6 | | 17.3 | 20 |
| Copper | 118 | 52.9 | 128 | 145 | 63.7 | 78.0 | 1 | 75.0-125 | J6 | | 12.4 | 20 |
| Lead | 118 | 1030 | 1260 | 968 | 196 | 0.000 | 1 | 75.0-125 | V | J3 V | 26.1 | 20 |
| Molybdenum | 118 | 3.95 | 92.6 | 105 | 74.9 | 85.4 | 1 | 75.0-125 | J6 | | 12.6 | 20 |
| Nickel | 118 | 17.1 | 103 | 122 | 72.3 | 88.4 | 1 | 75.0-125 | J6 | | 16.9 | 20 |
| Selenium | 118 | U | 92.0 | 104 | 77.7 | 88.1 | 1 | 75.0-125 | | | 12.6 | 20 |
| Silver | 23.7 | 1.18 | 20.1 | 21.6 | 79.7 | 86.1 | 1 | 75.0-125 | | | 7.30 | 20 |
| Thallium | 118 | 2.44 | 97.1 | 106 | 79.9 | 87.5 | 1 | 75.0-125 | | | 8.85 | 20 |
| Vanadium | 118 | 12.0 | 101 | 118 | 75.1 | 89.1 | 1 | 75.0-125 | | | 15.2 | 20 |
| Zinc | 118 | 326 | 590 | 488 | 223 | 137 | 1 | 75.0-125 | J5 | J5 | 18.9 | 20 |

## Method Blank (MB)

(MB) R4075132-1 05/29/24 22:31

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4075132-2 05/29/24 22:34

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 50.7 | 101 | 80.0-120 | |
| Arsenic | 50.0 | 49.8 | 99.5 | 80.0-120 | |
| Barium | 50.0 | 48.3 | 96.6 | 80.0-120 | |
| Beryllium | 50.0 | 44.7 | 89.4 | 80.0-120 | |
| Cadmium | 50.0 | 49.7 | 99.5 | 80.0-120 | |
| Chromium | 50.0 | 50.3 | 101 | 80.0-120 | |
| Copper | 50.0 | 50.0 | 100 | 80.0-120 | |
| Cobalt | 50.0 | 50.5 | 101 | 80.0-120 | |
| Lead | 50.0 | 50.2 | 100 | 80.0-120 | |
| Molybdenum | 50.0 | 49.2 | 98.4 | 80.0-120 | |
| Nickel | 50.0 | 51.5 | 103 | 80.0-120 | |
| Selenium | 50.0 | 50.9 | 102 | 80.0-120 | |
| Silver | 50.0 | 50.4 | 101 | 80.0-120 | |
| Thallium | 50.0 | 48.9 | 97.8 | 80.0-120 | |
| Vanadium | 50.0 | 48.9 | 97.9 | 80.0-120 | |
| Zinc | 50.0 | 48.7 | 97.4 | 80.0-120 | |

## L1738756-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738756-07 05/29/24 22:37 • (MS) R4075132-4 05/29/24 22:44 • (MSD) R4075132-5 05/29/24 22:47

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 53.8 | 54.3 | 108 | 109 | 1 | 75.0-125 | | | 1.05 | 20 |
| Arsenic | 50.0 | 0.881 | 51.2 | 52.9 | 101 | 104 | 1 | 75.0-125 | | | 3.18 | 20 |
| Barium | 50.0 | 70.7 | 119 | 120 | 97.2 | 98.3 | 1 | 75.0-125 | | | 0.482 | 20 |
| Beryllium | 50.0 | U | 48.0 | 48.5 | 96.0 | 97.0 | 1 | 75.0-125 | | | 0.954 | 20 |
| Cadmium | 50.0 | 0.374 | 50.5 | 52.4 | 100 | 104 | 1 | 75.0-125 | | | 3.70 | 20 |
| Chromium | 50.0 | U | 49.0 | 51.4 | 98.0 | 103 | 1 | 75.0-125 | | | 4.75 | 20 |
| Copper | 50.0 | 6.40 | 54.7 | 55.8 | 96.6 | 98.7 | 1 | 75.0-125 | | | 1.92 | 20 |
| Cobalt | 50.0 | 0.542 | 49.3 | 51.3 | 97.4 | 101 | 1 | 75.0-125 | | | 3.98 | 20 |
| Lead | 50.0 | 1.05 | 52.3 | 55.3 | 103 | 109 | 1 | 75.0-125 | | | 5.50 | 20 |
| Molybdenum | 50.0 | | 62.3 | 63.5 | 103 | 105 | 1 | 75.0-125 | | | 1.93 | 20 |
| Nickel | 50.0 | 4.94 | 53.7 | 56.6 | 97.4 | 103 | 1 | 75.0-125 | | | 5.35 | 20 |
| Selenium | 50.0 | U | 53.6 | 54.0 | 107 | 108 | 1 | 75.0-125 | | | 0.719 | 20 |
| Silver | 50.0 | U | 49.8 | 51.8 | 99.5 | 104 | 1 | 75.0-125 | | | 3.98 | 20 |
| Thallium | 50.0 | U | 50.6 | 52.7 | 101 | 105 | 1 | 75.0-125 | | | 4.19 | 20 |
| Vanadium | 50.0 | U | 50.5 | 52.2 | 101 | 104 | 1 | 75.0-125 | | | 3.27 | 20 |
| Zinc | 50.0 | 37.3 | 84.2 | 87.1 | 93.9 | 99.7 | 1 | 75.0-125 | | | 3.41 | 20 |

## Method Blank (MB)

(MB) R4073597-2 05/23/24 11:53

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.0* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4073597-1 05/23/24 10:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.04 | 101 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *107* | *77.0-120* | |

## L1738627-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738627-27 05/23/24 15:42 • (MS) R4073597-3 05/23/24 17:38 • (MSD) R4073597-4 05/23/24 17:58

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 222 | 2.34 | 231 | 219 | 103 | 97.6 | 30 | 10.0-141 | | | 5.26 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *106* | *107* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4074741-2 05/26/24 02:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.88 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.4* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4074741-1 05/26/24 00:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.81 | 116 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *108* | *77.0-120* | |

## L1738627-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738627-03 05/26/24 02:22 • (MS) R4074741-3 05/26/24 08:50 • (MSD) R4074741-4 05/26/24 09:09

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 168 | 2.26 | 183 | 190 | 108 | 112 | 28.5 | 10.0-141 | | | 3.77 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *107* | *107* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4076402-2 06/02/24 14:12

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.97 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.7* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4076402-1 06/02/24 12:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.68 | 93.6 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## Method Blank (MB)

(MB) R4075042-3 05/28/24 10:56

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | 38.9 | J | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.8* | | | *78.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075042-1 05/28/24 09:34 • (LCSD) R4075042-2 05/28/24 09:56

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 4280 | 4440 | 85.6 | 88.8 | 71.0-127 | | | 3.67 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *101* | *104* | *78.0-120* | | | | |

## Method Blank (MB)

(MB) R4074180-3 05/25/24 22:44

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4074180-3 05/25/24 22:44

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | 0.00325 | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074180-1 05/25/24 21:09 • (LCSD) R4074180-2 05/25/24 21:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.957 | 1.15 | 153 | 184 | 10.0-160 | | J4 | 18.3 | 31 |
| Acrylonitrile | 0.625 | 0.925 | 1.03 | 148 | 165 | 45.0-153 | | J4 | 10.7 | 22 |
| Benzene | 0.125 | 0.124 | 0.126 | 99.2 | 101 | 70.0-123 | | | 1.60 | 20 |
| Bromobenzene | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 73.0-121 | | | 2.45 | 20 |
| Bromodichloromethane | 0.125 | 0.133 | 0.134 | 106 | 107 | 73.0-121 | | | 0.749 | 20 |

# QUALITY CONTROL SUMMARY

L1738627-15,17,19,22,24,27,29

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074180-1 05/25/24 21:09 • (LCSD) R4074180-2 05/25/24 21:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.120 | 0.123 | 96.0 | 98.4 | 64.0-132 | | | 2.47 | 20 |
| Bromomethane | 0.125 | 0.123 | 0.136 | 98.4 | 109 | 56.0-147 | | | 10.0 | 20 |
| n-Butylbenzene | 0.125 | 0.107 | 0.120 | 85.6 | 96.0 | 68.0-135 | | | 11.5 | 20 |
| sec-Butylbenzene | 0.125 | 0.130 | 0.137 | 104 | 110 | 74.0-130 | | | 5.24 | 20 |
| tert-Butylbenzene | 0.125 | 0.129 | 0.138 | 103 | 110 | 75.0-127 | | | 6.74 | 20 |
| Carbon tetrachloride | 0.125 | 0.147 | 0.154 | 118 | 123 | 66.0-128 | | | 4.65 | 20 |
| Chlorobenzene | 0.125 | 0.125 | 0.131 | 100 | 105 | 76.0-128 | | | 4.69 | 20 |
| Chlorodibromomethane | 0.125 | 0.121 | 0.128 | 96.8 | 102 | 74.0-127 | | | 5.62 | 20 |
| Chloroethane | 0.125 | 0.124 | 0.143 | 99.2 | 114 | 61.0-134 | | | 14.2 | 20 |
| Chloroform | 0.125 | 0.120 | 0.129 | 96.0 | 103 | 72.0-123 | | | 7.23 | 20 |
| Chloromethane | 0.125 | 0.132 | 0.146 | 106 | 117 | 51.0-138 | | | 10.1 | 20 |
| 2-Chlorotoluene | 0.125 | 0.128 | 0.136 | 102 | 109 | 75.0-124 | | | 6.06 | 20 |
| 4-Chlorotoluene | 0.125 | 0.125 | 0.129 | 100 | 103 | 75.0-124 | | | 3.15 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.160 | 0.147 | 128 | 118 | 59.0-130 | | | 8.47 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.132 | 0.135 | 106 | 108 | 74.0-128 | | | 2.25 | 20 |
| Dibromomethane | 0.125 | 0.125 | 0.127 | 100 | 102 | 75.0-122 | | | 1.59 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.128 | 0.125 | 102 | 100 | 76.0-124 | | | 2.37 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.122 | 0.125 | 97.6 | 100 | 76.0-125 | | | 2.43 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.123 | 0.126 | 98.4 | 101 | 77.0-121 | | | 2.41 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.172 | 0.187 | 138 | 150 | 43.0-156 | | | 8.36 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.133 | 0.148 | 106 | 118 | 70.0-127 | | | 10.7 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.123 | 0.129 | 98.4 | 103 | 65.0-131 | | | 4.76 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.130 | 0.151 | 104 | 121 | 65.0-131 | | | 14.9 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.128 | 0.139 | 102 | 111 | 73.0-125 | | | 8.24 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.132 | 0.142 | 106 | 114 | 71.0-125 | | | 7.30 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.128 | 0.129 | 102 | 103 | 74.0-125 | | | 0.778 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.136 | 0.149 | 109 | 119 | 73.0-125 | | | 9.12 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.132 | 0.132 | 106 | 106 | 80.0-125 | | | 0.000 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.127 | 0.130 | 102 | 104 | 76.0-127 | | | 2.33 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.125 | 0.127 | 100 | 102 | 73.0-127 | | | 1.59 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.112 | 0.120 | 89.6 | 96.0 | 59.0-135 | | | 6.90 | 20 |
| Di-isopropyl ether | 0.125 | 0.136 | 0.144 | 109 | 115 | 60.0-136 | | | 5.71 | 20 |
| Ethylbenzene | 0.125 | 0.129 | 0.135 | 103 | 108 | 74.0-126 | | | 4.55 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.108 | 0.140 | 86.4 | 112 | 57.0-150 | | J3 | 25.8 | 20 |
| Isopropylbenzene | 0.125 | 0.136 | 0.140 | 109 | 112 | 72.0-127 | | | 2.90 | 20 |
| p-Isopropyltoluene | 0.125 | 0.125 | 0.134 | 100 | 107 | 72.0-133 | | | 6.95 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.890 | 1.01 | 142 | 162 | 30.0-160 | | J4 | 12.6 | 24 |
| Methylene Chloride | 0.125 | 0.119 | 0.124 | 95.2 | 99.2 | 68.0-123 | | | 4.12 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.831 | 0.840 | 133 | 134 | 56.0-143 | | | 1.08 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.136 | 0.134 | 109 | 107 | 66.0-132 | | | 1.48 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074180-1 05/25/24 21:09 • (LCSD) R4074180-2 05/25/24 21:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.124 | 0.115 | 99.2 | 92.0 | 59.0-130 | | | 7.53 | 20 |
| n-Propylbenzene | 0.125 | 0.132 | 0.140 | 106 | 112 | 74.0-126 | | | 5.88 | 20 |
| Styrene | 0.125 | 0.127 | 0.128 | 102 | 102 | 72.0-127 | | | 0.784 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.128 | 0.127 | 102 | 102 | 74.0-129 | | | 0.784 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.137 | 0.133 | 110 | 106 | 68.0-128 | | | 2.96 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.136 | 0.154 | 109 | 123 | 61.0-139 | | | 12.4 | 20 |
| Tetrachloroethene | 0.125 | 0.135 | 0.138 | 108 | 110 | 70.0-136 | | | 2.20 | 20 |
| Toluene | 0.125 | 0.127 | 0.132 | 102 | 106 | 75.0-121 | | | 3.86 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.125 | 0.129 | 100 | 103 | 59.0-139 | | | 3.15 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.115 | 0.125 | 92.0 | 100 | 62.0-137 | | | 8.33 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.150 | 0.155 | 120 | 124 | 69.0-126 | | | 3.28 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.130 | 0.131 | 104 | 105 | 78.0-123 | | | 0.766 | 20 |
| Trichloroethene | 0.125 | 0.133 | 0.139 | 106 | 111 | 76.0-126 | | | 4.41 | 20 |
| Trichlorofluoromethane | 0.125 | 0.149 | 0.177 | 119 | 142 | 61.0-142 | | | 17.2 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.138 | 0.146 | 110 | 117 | 67.0-129 | | | 5.63 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.124 | 0.125 | 99.2 | 100 | 70.0-126 | | | 0.803 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.124 | 0.120 | 99.2 | 96.0 | 74.0-124 | | | 3.28 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.126 | 0.128 | 101 | 102 | 73.0-127 | | | 1.57 | 20 |
| Vinyl chloride | 0.125 | 0.119 | 0.141 | 95.2 | 113 | 63.0-134 | | | 16.9 | 20 |
| Xylenes, Total | 0.375 | 0.392 | 0.406 | 105 | 108 | 72.0-127 | | | 3.51 | 20 |
| *(S) Toluene-d8* | | | | *100* | *104* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *106* | *103* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *107* | *102* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075197-3 05/27/24 22:19

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4075197-3 05/27/24 22:19

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *99.1* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075197-1 05/27/24 21:04 • (LCSD) R4075197-2 05/27/24 21:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 1.15 | 1.07 | 184 | 171 | 10.0-160 | J4 | J4 | 7.21 | 31 |
| Acrylonitrile | 0.625 | 0.858 | 0.806 | 137 | 129 | 45.0-153 | | | 6.25 | 22 |
| Benzene | 0.125 | 0.111 | 0.113 | 88.8 | 90.4 | 70.0-123 | | | 1.79 | 20 |
| Bromobenzene | 0.125 | 0.108 | 0.106 | 86.4 | 84.8 | 73.0-121 | | | 1.87 | 20 |
| Bromodichloromethane | 0.125 | 0.116 | 0.120 | 92.8 | 96.0 | 73.0-121 | | | 3.39 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075197-1 05/27/24 21:04 • (LCSD) R4075197-2 05/27/24 21:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.111 | 0.115 | 88.8 | 92.0 | 64.0-132 | | | 3.54 | 20 |
| Bromomethane | 0.125 | 0.118 | 0.135 | 94.4 | 108 | 56.0-147 | | | 13.4 | 20 |
| n-Butylbenzene | 0.125 | 0.105 | 0.101 | 84.0 | 80.8 | 68.0-135 | | | 3.88 | 20 |
| sec-Butylbenzene | 0.125 | 0.121 | 0.114 | 96.8 | 91.2 | 74.0-130 | | | 5.96 | 20 |
| tert-Butylbenzene | 0.125 | 0.134 | 0.112 | 107 | 89.6 | 75.0-127 | | | 17.9 | 20 |
| Carbon tetrachloride | 0.125 | 0.126 | 0.129 | 101 | 103 | 66.0-128 | | | 2.35 | 20 |
| Chlorobenzene | 0.125 | 0.113 | 0.112 | 90.4 | 89.6 | 76.0-128 | | | 0.889 | 20 |
| Chlorodibromomethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 74.0-127 | | | 0.000 | 20 |
| Chloroethane | 0.125 | 0.123 | 0.130 | 98.4 | 104 | 61.0-134 | | | 5.53 | 20 |
| Chloroform | 0.125 | 0.111 | 0.110 | 88.8 | 88.0 | 72.0-123 | | | 0.905 | 20 |
| Chloromethane | 0.125 | 0.110 | 0.113 | 88.0 | 90.4 | 51.0-138 | | | 2.69 | 20 |
| 2-Chlorotoluene | 0.125 | 0.116 | 0.114 | 92.8 | 91.2 | 75.0-124 | | | 1.74 | 20 |
| 4-Chlorotoluene | 0.125 | 0.0929 | 0.109 | 74.3 | 87.2 | 75.0-124 | J4 | | 15.9 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.117 | 0.135 | 93.6 | 108 | 59.0-130 | | | 14.3 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.123 | 0.120 | 98.4 | 96.0 | 74.0-128 | | | 2.47 | 20 |
| Dibromomethane | 0.125 | 0.112 | 0.114 | 89.6 | 91.2 | 75.0-122 | | | 1.77 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.105 | 0.112 | 84.0 | 89.6 | 76.0-124 | | | 6.45 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.108 | 0.107 | 86.4 | 85.6 | 76.0-125 | | | 0.930 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.109 | 0.107 | 87.2 | 85.6 | 77.0-121 | | | 1.85 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.134 | 0.154 | 107 | 123 | 43.0-156 | | | 13.9 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.121 | 0.122 | 96.8 | 97.6 | 70.0-127 | | | 0.823 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.108 | 0.108 | 86.4 | 86.4 | 65.0-131 | | | 0.000 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.125 | 0.115 | 100 | 92.0 | 65.0-131 | | | 8.33 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.121 | 0.122 | 96.8 | 97.6 | 73.0-125 | | | 0.823 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.118 | 0.120 | 94.4 | 96.0 | 71.0-125 | | | 1.68 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.117 | 0.114 | 93.6 | 91.2 | 74.0-125 | | | 2.60 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.126 | 0.126 | 101 | 101 | 73.0-125 | | | 0.000 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.117 | 0.112 | 93.6 | 89.6 | 80.0-125 | | | 4.37 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.121 | 0.123 | 96.8 | 98.4 | 76.0-127 | | | 1.64 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 73.0-127 | | | 3.45 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.121 | 0.126 | 96.8 | 101 | 59.0-135 | | | 4.05 | 20 |
| Di-isopropyl ether | 0.125 | 0.122 | 0.118 | 97.6 | 94.4 | 60.0-136 | | | 3.33 | 20 |
| Ethylbenzene | 0.125 | 0.117 | 0.117 | 93.6 | 93.6 | 74.0-126 | | | 0.000 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 57.0-150 | | | 0.881 | 20 |
| Isopropylbenzene | 0.125 | 0.120 | 0.125 | 96.0 | 100 | 72.0-127 | | | 4.08 | 20 |
| p-Isopropyltoluene | 0.125 | 0.114 | 0.111 | 91.2 | 88.8 | 72.0-133 | | | 2.67 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.886 | 1.07 | 142 | 171 | 30.0-160 | | J4 | 18.8 | 24 |
| Methylene Chloride | 0.125 | 0.114 | 0.111 | 91.2 | 88.8 | 68.0-123 | | | 2.67 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.726 | 0.685 | 116 | 110 | 56.0-143 | | | 5.81 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.128 | 0.116 | 102 | 92.8 | 66.0-132 | | | 9.84 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075197-1 05/27/24 21:04 • (LCSD) R4075197-2 05/27/24 21:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0930 | 0.119 | 74.4 | 95.2 | 59.0-130 | | J3 | 24.5 | 20 |
| n-Propylbenzene | 0.125 | 0.120 | 0.112 | 96.0 | 89.6 | 74.0-126 | | | 6.90 | 20 |
| Styrene | 0.125 | 0.112 | 0.114 | 89.6 | 91.2 | 72.0-127 | | | 1.77 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.111 | 0.111 | 88.8 | 88.8 | 74.0-129 | | | 0.000 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.114 | 0.110 | 91.2 | 88.0 | 68.0-128 | | | 3.57 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.120 | 0.135 | 96.0 | 108 | 61.0-139 | | | 11.8 | 20 |
| Tetrachloroethene | 0.125 | 0.122 | 0.121 | 97.6 | 96.8 | 70.0-136 | | | 0.823 | 20 |
| Toluene | 0.125 | 0.113 | 0.110 | 90.4 | 88.0 | 75.0-121 | | | 2.69 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.102 | 0.123 | 81.6 | 98.4 | 59.0-139 | | | 18.7 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.101 | 0.118 | 80.8 | 94.4 | 62.0-137 | | | 15.5 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.132 | 0.132 | 106 | 106 | 69.0-126 | | | 0.000 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.118 | 0.112 | 94.4 | 89.6 | 78.0-123 | | | 5.22 | 20 |
| Trichloroethene | 0.125 | 0.126 | 0.125 | 101 | 100 | 76.0-126 | | | 0.797 | 20 |
| Trichlorofluoromethane | 0.125 | 0.139 | 0.148 | 111 | 118 | 61.0-142 | | | 6.27 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.130 | 0.119 | 104 | 95.2 | 67.0-129 | | | 8.84 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.107 | 0.107 | 85.6 | 85.6 | 70.0-126 | | | 0.000 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.105 | 0.109 | 84.0 | 87.2 | 74.0-124 | | | 3.74 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.111 | 0.109 | 88.8 | 87.2 | 73.0-127 | | | 1.82 | 20 |
| Vinyl chloride | 0.125 | 0.119 | 0.130 | 95.2 | 104 | 63.0-134 | | | 8.84 | 20 |
| Xylenes, Total | 0.375 | 0.344 | 0.345 | 91.7 | 92.0 | 72.0-127 | | | 0.290 | 20 |
| *(S) Toluene-d8* | | | | *99.7* | *98.6* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *103* | *107* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *96.0* | *99.4* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4074842-3 05/27/24 06:19

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Trichloroethene | U | | 0.000584 | 0.00100 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *98.8* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074842-1 05/27/24 04:43 • (LCSD) R4074842-2 05/27/24 05:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.125 | 0.107 | 0.106 | 85.6 | 84.8 | 76.0-126 | | | 0.939 | 20 |
| *(S) Toluene-d8* | | | | *110* | *110* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *94.5* | *94.9* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *101* | *102* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4074807-4 05/26/24 16:53

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

Cp
Tc
Ss
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Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4074807-4 05/26/24 16:53

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *114* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *114* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *98.0* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074807-1 05/26/24 15:31 • (LCSD) R4074807-2 05/26/24 15:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 40.0 | 36.5 | 160 | 146 | 19.0-160 | J | J | 9.15 | 27 |
| Acrolein | 25.0 | 12.5 | 12.6 | 50.0 | 50.4 | 10.0-160 | J | J | 0.797 | 26 |
| Acrylonitrile | 25.0 | 29.6 | 29.7 | 118 | 119 | 55.0-149 | | | 0.337 | 20 |
| Benzene | 5.00 | 4.96 | 4.99 | 99.2 | 99.8 | 70.0-123 | | | 0.603 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074807-1 05/26/24 15:31 • (LCSD) R4074807-2 05/26/24 15:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 4.55 | 4.74 | 91.0 | 94.8 | 73.0-121 | | | 4.09 | 20 |
| Bromodichloromethane | 5.00 | 4.66 | 4.63 | 93.2 | 92.6 | 75.0-120 | | | 0.646 | 20 |
| Bromoform | 5.00 | 4.85 | 4.56 | 97.0 | 91.2 | 68.0-132 | | | 6.16 | 20 |
| Bromomethane | 5.00 | 3.52 | 3.45 | 70.4 | 69.0 | 10.0-160 | J | J | 2.01 | 25 |
| n-Butylbenzene | 5.00 | 4.21 | 5.21 | 84.2 | 104 | 73.0-125 | | J3 | 21.2 | 20 |
| sec-Butylbenzene | 5.00 | 4.64 | 4.92 | 92.8 | 98.4 | 75.0-125 | | | 5.86 | 20 |
| tert-Butylbenzene | 5.00 | 4.73 | 4.99 | 94.6 | 99.8 | 76.0-124 | | | 5.35 | 20 |
| Carbon tetrachloride | 5.00 | 5.16 | 5.07 | 103 | 101 | 68.0-126 | | | 1.76 | 20 |
| Chlorobenzene | 5.00 | 5.12 | 5.37 | 102 | 107 | 80.0-121 | | | 4.77 | 20 |
| Chlorodibromomethane | 5.00 | 5.36 | 4.93 | 107 | 98.6 | 77.0-125 | | | 8.36 | 20 |
| Chloroethane | 5.00 | 4.71 | 4.63 | 94.2 | 92.6 | 47.0-150 | J | J | 1.71 | 20 |
| Chloroform | 5.00 | 5.00 | 5.03 | 100 | 101 | 73.0-120 | J | | 0.598 | 20 |
| Chloromethane | 5.00 | 5.73 | 5.64 | 115 | 113 | 41.0-142 | | | 1.58 | 20 |
| 2-Chlorotoluene | 5.00 | 4.58 | 4.89 | 91.6 | 97.8 | 76.0-123 | | | 6.55 | 20 |
| 4-Chlorotoluene | 5.00 | 4.32 | 4.58 | 86.4 | 91.6 | 75.0-122 | | | 5.84 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 3.62 | 3.81 | 72.4 | 76.2 | 58.0-134 | J | J | 5.11 | 20 |
| 1,2-Dibromoethane | 5.00 | 5.45 | 4.97 | 109 | 99.4 | 80.0-122 | | | 9.21 | 20 |
| Dibromomethane | 5.00 | 4.98 | 4.81 | 99.6 | 96.2 | 80.0-120 | | | 3.47 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 4.79 | 5.32 | 95.8 | 106 | 79.0-121 | | | 10.5 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.75 | 5.25 | 95.0 | 105 | 79.0-120 | | | 10.0 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 4.72 | 5.08 | 94.4 | 102 | 79.0-120 | | | 7.35 | 20 |
| Dichlorodifluoromethane | 5.00 | 4.63 | 4.61 | 92.6 | 92.2 | 51.0-149 | J | J | 0.433 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.23 | 5.24 | 105 | 105 | 70.0-126 | | | 0.191 | 20 |
| 1,2-Dichloroethane | 5.00 | 4.93 | 4.88 | 98.6 | 97.6 | 70.0-128 | | | 1.02 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.24 | 5.12 | 105 | 102 | 71.0-124 | | | 2.32 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.86 | 5.19 | 97.2 | 104 | 73.0-120 | | | 6.57 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 5.28 | 5.12 | 106 | 102 | 73.0-120 | | | 3.08 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.29 | 5.57 | 106 | 111 | 77.0-125 | | | 5.16 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.34 | 5.24 | 107 | 105 | 74.0-126 | | | 1.89 | 20 |
| 1,3-Dichloropropane | 5.00 | 5.46 | 5.07 | 109 | 101 | 80.0-120 | | | 7.41 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.84 | 4.65 | 96.8 | 93.0 | 80.0-123 | | | 4.00 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 5.18 | 4.50 | 104 | 90.0 | 78.0-124 | | | 14.0 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.41 | 4.60 | 88.2 | 92.0 | 58.0-130 | | | 4.22 | 20 |
| Di-isopropyl ether | 5.00 | 5.50 | 5.42 | 110 | 108 | 58.0-138 | | | 1.47 | 20 |
| Ethylbenzene | 5.00 | 5.13 | 5.35 | 103 | 107 | 79.0-123 | | | 4.20 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 4.63 | 4.43 | 92.6 | 88.6 | 54.0-138 | | | 4.42 | 20 |
| Isopropylbenzene | 5.00 | 5.75 | 5.23 | 115 | 105 | 76.0-127 | | | 9.47 | 20 |
| p-Isopropyltoluene | 5.00 | 4.69 | 4.85 | 93.8 | 97.0 | 76.0-125 | | | 3.35 | 20 |
| 2-Butanone (MEK) | 25.0 | 34.1 | 34.3 | 136 | 137 | 44.0-160 | | | 0.585 | 20 |
| Methylene Chloride | 5.00 | 5.00 | 5.00 | 100 | 100 | 67.0-120 | J | J | 0.000 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074807-1 05/26/24 15:31 • (LCSD) R4074807-2 05/26/24 15:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 27.2 | 25.6 | 109 | 102 | 68.0-142 | | | 6.06 | 20 |
| Methyl tert-butyl ether | 5.00 | 4.63 | 4.65 | 92.6 | 93.0 | 68.0-125 | | | 0.431 | 20 |
| Naphthalene | 5.00 | 3.04 | 3.21 | 60.8 | 64.2 | 54.0-135 | J | J | 5.44 | 20 |
| n-Propylbenzene | 5.00 | 4.72 | 4.77 | 94.4 | 95.4 | 77.0-124 | | | 1.05 | 20 |
| Styrene | 5.00 | 5.68 | 5.22 | 114 | 104 | 73.0-130 | | | 8.44 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.66 | 5.05 | 113 | 101 | 75.0-125 | | | 11.4 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.29 | 4.66 | 85.8 | 93.2 | 65.0-130 | | | 8.27 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 5.33 | 5.67 | 107 | 113 | 69.0-132 | | | 6.18 | 20 |
| Tetrachloroethene | 5.00 | 6.27 | 5.63 | 125 | 113 | 72.0-132 | | | 10.8 | 20 |
| Toluene | 5.00 | 5.83 | 5.13 | 117 | 103 | 79.0-120 | | | 12.8 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 3.52 | 3.59 | 70.4 | 71.8 | 50.0-138 | | | 1.97 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 3.86 | 3.71 | 77.2 | 74.2 | 57.0-137 | | | 3.96 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 4.90 | 4.61 | 98.0 | 92.2 | 73.0-124 | | | 6.10 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 5.56 | 4.83 | 111 | 96.6 | 80.0-120 | | | 14.1 | 20 |
| Trichloroethene | 5.00 | 5.46 | 5.51 | 109 | 110 | 78.0-124 | | | 0.912 | 20 |
| Trichlorofluoromethane | 5.00 | 5.18 | 5.16 | 104 | 103 | 59.0-147 | | | 0.387 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 4.97 | 4.74 | 99.4 | 94.8 | 73.0-130 | | | 4.74 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.59 | 4.74 | 91.8 | 94.8 | 76.0-121 | | | 3.22 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.63 | 4.67 | 92.6 | 93.4 | 77.0-120 | | | 0.860 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.67 | 5.05 | 93.4 | 101 | 76.0-122 | | | 7.82 | 20 |
| Vinyl chloride | 5.00 | 5.35 | 5.20 | 107 | 104 | 67.0-131 | | | 2.84 | 20 |
| Xylenes, Total | 15.0 | 17.4 | 15.9 | 116 | 106 | 79.0-123 | | | 9.01 | 20 |
| *(S) Toluene-d8* | | | | *120* | *105* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *114* | *104* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *95.8* | *97.4* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4076519-1 06/02/24 10:37

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *59.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076519-2 06/02/24 10:58 • (LCSD) R4076519-3 06/02/24 11:19

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 793 | 803 | 106 | 107 | 50.0-150 | | | 1.25 | 20 |
| C22-C32 Hydrocarbons | 750 | 722 | 733 | 96.3 | 97.7 | 50.0-150 | | | 1.51 | 20 |
| *(S) o-Terphenyl* | | | | *73.5* | *73.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4073924-1 05/24/24 15:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *82.0* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4073924-2 05/24/24 15:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 21.2 | 84.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 16.9 | 67.6 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *79.6* | *18.0-148* | |

## L1735386-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735386-07 05/24/24 15:29 • (MS) R4073924-3 05/24/24 15:43 • (MSD) R4073924-4 05/24/24 15:57

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 28.1 | U | 23.5 | 23.0 | 83.6 | 82.0 | 1 | 50.0-150 | | | 1.93 | 20 |
| C22-C32 Hydrocarbons | 28.1 | U | 20.5 | 22.0 | 72.8 | 78.4 | 1 | 50.0-150 | | | 7.41 | 20 |
| *(S) o-Terphenyl* | | | | | *74.0* | *72.5* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4075425-1 05/30/24 11:26

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *83.3* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4075425-2 05/30/24 11:40

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 19.2 | 76.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.0 | 68.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *63.7* | *18.0-148* | |

## L1739342-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-03 05/30/24 15:34 • (MS) R4075425-3 05/30/24 15:48 • (MSD) R4075425-4 05/30/24 16:04

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 26.9 | 1.04 | 20.2 | 18.1 | 71.2 | 63.2 | 1 | 50.0-150 | | | 10.9 | 20 |
| C22-C32 Hydrocarbons | 26.9 | 4.01 | 22.8 | 24.9 | 70.0 | 77.4 | 1 | 50.0-150 | | | 8.74 | 20 |
| *(S) o-Terphenyl* | | | | | *55.0* | *46.5* | | *18.0-148* | | | | |

# QUALITY CONTROL SUMMARY

L1738627-18,23

## Method Blank (MB)

(MB) R4072913-1 05/22/24 14:37

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *83.2* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *74.5* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4072913-2 05/22/24 14:46

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.146 | 87.4 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.145 | 86.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *78.7* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *72.2* | *10.0-139* | |

## L1738614-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738614-06 05/22/24 15:12 • (MS) R4072913-3 05/22/24 15:21 • (MSD) R4072913-4 05/22/24 15:30

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.173 | U | 0.146 | 0.133 | 84.4 | 76.6 | 1 | 10.0-160 | | | 9.67 | 37 |
| PCB 1260 | 0.173 | U | 0.145 | 0.138 | 83.8 | 79.6 | 1 | 10.0-160 | | | 5.13 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *82.7* | *81.1* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *80.0* | *76.1* | | *10.0-139* | | | | |

Cp Tc Ss Cn Ds Sr Qc Gl Al Sc

# WG2294060

Polychlorinated Biphenyls (GC) by Method 8082

# QUALITY CONTROL SUMMARY

L1738627-01,06,11,24,30

## Method Blank (MB)

(MB) R4074607-1 05/28/24 10:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *69.8* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *66.4* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4074607-2 05/28/24 10:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.114 | 68.3 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.115 | 68.9 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *63.7* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *65.6* | *10.0-139* | |

## L1739476-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739476-01 05/28/24 11:02 • (MS) R4074607-3 05/28/24 11:11 • (MSD) R4074607-4 05/28/24 11:20

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.221 | U | 0.205 | 0.144 | 93.1 | 65.8 | 1 | 10.0-160 | P | P | 34.9 | 37 |
| PCB 1260 | 0.221 | U | 0.138 | 0.0890 | 62.6 | 40.6 | 1 | 10.0-160 | P | J3 P | 43.2 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *61.0* | *49.0* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *66.4* | *55.3* | | *10.0-139* | | | | |

# QUALITY CONTROL SUMMARY

L1738627-02,07,12

## Method Blank (MB)

(MB) R4077989-1 06/05/24 21:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *113* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *101* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4077989-5 06/05/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.172 | 103 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.165 | 98.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *100* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *93.2* | *10.0-139* | |

## L1741413-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741413-02 06/05/24 22:22 • (MS) R4077989-6 06/05/24 22:50 • (MSD) R4077989-7 06/05/24 23:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.167 | U | 0.154 | 0.156 | 91.8 | 93.7 | 1 | 10.0-160 | | | 1.36 | 37 |
| PCB 1260 | 0.167 | U | 0.176 | 0.175 | 105 | 105 | 1 | 10.0-160 | | | 0.601 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *109* | *114* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *92.8* | *92.9* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4088275-1 06/29/24 20:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *66.7* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *73.1* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4088275-7 06/29/24 20:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.104 | 62.3 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.102 | 61.1 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *59.9* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *68.2* | *10.0-139* | |

## L1749654-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1749654-02 06/30/24 13:58 • (MS) R4088474-3 06/30/24 14:26 • (MSD) R4088474-4 06/30/24 14:36

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.189 | U | 0.125 | 0.142 | 65.9 | 74.9 | 1 | 10.0-160 | | | 12.8 | 37 |
| PCB 1260 | 0.189 | U | 0.115 | 0.145 | 60.5 | 76.6 | 1 | 10.0-160 | | | 23.6 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *58.9* | *73.9* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *56.9* | *67.6* | | *10.0-139* | | | | |

# QUALITY CONTROL SUMMARY

L1738627-08

## Method Blank (MB)

(MB) R4088908-1 07/01/24 22:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *80.2* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *94.4* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4088908-2 07/01/24 22:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.0932 | 55.8 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.0835 | 50.0 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *60.7* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *73.6* | *10.0-139* | |

## L1752331-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1752331-04 07/02/24 00:45 • (MS) R4088908-3 07/02/24 00:53 • (MSD) R4088908-4 07/02/24 01:02

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.182 | U | 0.119 | 0.101 | 65.3 | 55.4 | 1 | 10.0-160 | | | 16.4 | 37 |
| PCB 1260 | 0.182 | U | 0.100 | 0.0861 | 55.1 | 47.3 | 1 | 10.0-160 | | | 15.2 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *62.0* | *43.1* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *75.7* | *56.8* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4089615-1 07/02/24 18:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0236 | 0.0680 |
| PCB 1221 | U | | 0.0236 | 0.0680 |
| PCB 1232 | U | | 0.0236 | 0.0680 |
| PCB 1242 | U | | 0.0236 | 0.0680 |
| PCB 1248 | U | | 0.0148 | 0.0340 |
| PCB 1254 | U | | 0.0148 | 0.0340 |
| PCB 1260 | U | | 0.0148 | 0.0340 |
| *(S) Decachlorobiphenyl* | *78.4* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *74.9* | | | *10.0-139* |

**Sample Narrative:**

BLANK: Dilution due to sulfur cleanup.

## Laboratory Control Sample (LCS)

(LCS) R4089615-2 07/02/24 18:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.0695 | 41.6 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.0740 | 44.3 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *58.3* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *55.1* | *10.0-139* | |

**Sample Narrative:**

LCS: Dilution due to sulfur cleanup.

## Method Blank (MB)

(MB) R4075641-4 05/30/24 22:19

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4075641-4 05/30/24 22:19

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *92.3* | | | *12.0-120* |
| *(S) Phenol-d5* | *88.0* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *71.8* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *88.6* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *78.2* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *108* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4075641-3 05/30/24 21:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.513 | 77.0 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.579 | 86.9 | 40.0-120 | |
| Anthracene | 0.666 | 0.595 | 89.3 | 42.0-120 | |
| Benzidine | 1.33 | 0.601 | 45.2 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.633 | 95.0 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.567 | 85.1 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.563 | 84.5 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.646 | 97.0 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.607 | 91.1 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.379 | 56.9 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.427 | 64.1 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4075641-3 05/30/24 21:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.473 | 71.0 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.621 | 93.2 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.500 | 75.1 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.588 | 88.3 | 40.0-120 | |
| Chrysene | 0.666 | 0.588 | 88.3 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.684 | 103 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.473 | 71.0 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.473 | 71.0 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.509 | 76.4 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.19 | 89.5 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.638 | 95.8 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.625 | 93.8 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.609 | 91.4 | 44.0-120 | |
| Fluorene | 0.666 | 0.545 | 81.8 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.566 | 85.0 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.397 | 59.6 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.473 | 71.0 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.462 | 69.4 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.731 | 110 | 45.0-120 | |
| Isophorone | 0.666 | 0.388 | 58.3 | 23.0-120 | |
| Naphthalene | 0.666 | 0.402 | 60.4 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.358 | 53.8 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.330 | 49.5 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.552 | 82.9 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.454 | 68.2 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.563 | 84.5 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.635 | 95.3 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.642 | 96.4 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.583 | 87.5 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.601 | 90.2 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.569 | 85.4 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.647 | 97.1 | 40.0-120 | |
| Pyrene | 0.666 | 0.593 | 89.0 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.424 | 63.7 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.455 | 68.3 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.524 | 78.7 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.451 | 67.7 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.396 | 59.5 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.798 | 120 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.671 | 101 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4075641-3 05/30/24 21:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.495 | 74.3 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.650 | 97.6 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.451 | 67.7 | 29.0-120 | |
| Phenol | 0.666 | 0.491 | 73.7 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.555 | 83.3 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *85.7* | *12.0-120* | |
| *(S) Phenol-d5* | | | *80.9* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *52.3* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *79.0* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *87.8* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *91.6* | *10.0-120* | |

## L1738627-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738627-02 05/31/24 02:48 • (MS) R4075641-1 05/31/24 03:13 • (MSD) R4075641-2 05/31/24 03:37

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.727 | U | 0.664 | 0.590 | 91.3 | 80.6 | 10 | 18.0-120 | | | 11.7 | 32 |
| Acenaphthylene | 0.727 | U | 0.716 | 0.653 | 98.5 | 89.2 | 10 | 25.0-120 | | | 9.29 | 32 |
| Anthracene | 0.727 | U | 0.724 | 0.695 | 99.5 | 95.0 | 10 | 22.0-120 | | | 4.09 | 29 |
| Benzidine | 1.45 | U | 0.772 | 0.808 | 53.2 | 55.3 | 10 | 10.0-120 | J | J | 4.52 | 40 |
| Benzo(a)anthracene | 0.727 | 0.0655 | 0.806 | 0.773 | 111 | 106 | 10 | 25.0-120 | | | 4.10 | 29 |
| Benzo(b)fluoranthene | 0.727 | 0.0977 | 0.774 | 0.707 | 93.0 | 83.3 | 10 | 19.0-122 | | | 9.04 | 31 |
| Benzo(k)fluoranthene | 0.727 | U | 0.682 | 0.648 | 93.7 | 88.6 | 10 | 23.0-120 | | | 5.03 | 30 |
| Benzo(g,h,i)perylene | 0.727 | U | 0.590 | 0.562 | 81.1 | 76.8 | 10 | 10.0-120 | | | 4.84 | 33 |
| Benzo(a)pyrene | 0.727 | 0.0815 | 0.769 | 0.723 | 94.5 | 87.7 | 10 | 24.0-120 | | | 6.13 | 30 |
| Bis(2-chlorethoxy)methane | 0.727 | U | 0.571 | 0.493 | 78.5 | 67.4 | 10 | 10.0-120 | J | J | 14.7 | 34 |
| Bis(2-chloroethyl)ether | 0.727 | U | 0.628 | 0.532 | 86.3 | 72.7 | 10 | 10.0-120 | J | J | 16.5 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.727 | U | 0.630 | 0.518 | 86.7 | 70.7 | 10 | 10.0-120 | J | J | 19.6 | 40 |
| 4-Bromophenyl-phenylether | 0.727 | U | 0.744 | 0.711 | 102 | 97.1 | 10 | 27.0-120 | J | J | 4.60 | 30 |
| 2-Chloronaphthalene | 0.727 | U | 0.635 | 0.562 | 87.3 | 76.8 | 10 | 20.0-120 | | | 12.1 | 32 |
| 4-Chlorophenyl-phenylether | 0.727 | U | 0.703 | 0.664 | 96.6 | 90.7 | 10 | 24.0-120 | J | J | 5.71 | 29 |
| Chrysene | 0.727 | 0.0878 | 0.815 | 0.741 | 99.9 | 89.2 | 10 | 21.0-120 | | | 9.47 | 29 |
| Dibenz(a,h)anthracene | 0.727 | U | 0.617 | 0.639 | 84.8 | 87.3 | 10 | 10.0-120 | | | 3.55 | 32 |
| 1,2-Dichlorobenzene | 0.727 | U | 0.590 | 0.486 | 81.1 | 66.5 | 10 | 10.0-120 | J | J | 19.3 | 38 |
| 1,3-Dichlorobenzene | 0.727 | U | 0.586 | 0.466 | 80.5 | 63.7 | 10 | 10.0-120 | J | J | 22.7 | 40 |
| 1,4-Dichlorobenzene | 0.727 | U | 0.648 | 0.537 | 89.1 | 73.3 | 10 | 10.0-120 | J | J | 18.8 | 39 |
| 3,3-Dichlorobenzidine | 1.45 | U | 1.38 | 1.44 | 95.4 | 98.5 | 10 | 10.0-120 | J | J | 3.95 | 34 |
| 2,4-Dinitrotoluene | 0.727 | U | 0.685 | 0.665 | 94.2 | 90.9 | 10 | 30.0-120 | J | J | 2.98 | 31 |

# QUALITY CONTROL SUMMARY

L1738627-01,02,03,06,07,08,11,12,13,18,19,20,23,24,25,30,31,32

## L1738627-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738627-02 05/31/24 02:48 • (MS) R4075641-1 05/31/24 03:13 • (MSD) R4075641-2 05/31/24 03:37

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.727 | U | 0.712 | 0.665 | 97.9 | 90.9 | 10 | 25.0-120 | J | J | 6.81 | 31 |
| Fluoranthene | 0.727 | 0.0734 | 0.813 | 0.760 | 102 | 93.8 | 10 | 18.0-126 | | | 6.81 | 32 |
| Fluorene | 0.727 | U | 0.682 | 0.627 | 93.7 | 85.7 | 10 | 25.0-120 | | | 8.35 | 30 |
| Hexachlorobenzene | 0.727 | U | 0.685 | 0.663 | 94.2 | 90.5 | 10 | 27.0-120 | J | J | 3.31 | 28 |
| Hexachloro-1,3-butadiene | 0.727 | U | 0.608 | 0.530 | 83.6 | 72.4 | 10 | 10.0-120 | J | J | 13.7 | 38 |
| Hexachlorocyclopentadiene | 0.727 | U | U | U | 2.64 | 4.47 | 10 | 10.0-120 | J J6 | J J3 J6 | 52.0 | 40 |
| Hexachloroethane | 0.727 | U | 0.517 | 0.436 | 71.0 | 59.6 | 10 | 10.0-120 | J | J | 16.9 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.727 | U | 0.743 | 0.720 | 102 | 98.3 | 10 | 10.0-120 | | | 3.20 | 32 |
| Isophorone | 0.727 | U | 0.571 | 0.511 | 78.5 | 69.8 | 10 | 13.0-120 | J | J | 11.1 | 34 |
| Naphthalene | 0.727 | U | 0.616 | 0.533 | 84.7 | 72.9 | 10 | 10.0-120 | | | 14.4 | 35 |
| Nitrobenzene | 0.727 | U | 0.530 | 0.456 | 72.9 | 62.3 | 10 | 10.0-120 | J | J | 14.9 | 36 |
| n-Nitrosodimethylamine | 0.727 | U | U | U | 0.000 | 0.000 | 10 | 10.0-127 | J6 | J6 | 0.000 | 40 |
| n-Nitrosodiphenylamine | 0.727 | U | 0.661 | 0.630 | 90.8 | 86.1 | 10 | 17.0-120 | J | J | 4.67 | 29 |
| n-Nitrosodi-n-propylamine | 0.727 | U | 0.565 | 0.497 | 77.6 | 67.8 | 10 | 10.0-120 | J | J | 12.8 | 37 |
| Phenanthrene | 0.727 | U | 0.720 | 0.691 | 98.9 | 94.4 | 10 | 17.0-120 | | | 4.11 | 31 |
| Benzylbutyl phthalate | 0.727 | U | 0.752 | 0.733 | 103 | 100 | 10 | 23.0-120 | J | J | 2.55 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.727 | U | 0.749 | 0.727 | 103 | 99.4 | 10 | 17.0-126 | J | J | 2.87 | 30 |
| Di-n-butyl phthalate | 0.727 | U | 0.741 | 0.704 | 102 | 96.2 | 10 | 30.0-120 | J | J | 5.10 | 29 |
| Diethyl phthalate | 0.727 | U | 0.714 | 0.685 | 98.2 | 93.6 | 10 | 26.0-120 | J | J | 4.15 | 28 |
| Dimethyl phthalate | 0.727 | U | U | U | 93.6 | 87.0 | 10 | 25.0-120 | J | J | 6.60 | 29 |
| Di-n-octyl phthalate | 0.727 | U | 0.935 | 0.953 | 129 | 130 | 10 | 21.0-123 | J J5 | J J5 | 1.89 | 29 |
| Pyrene | 0.727 | 0.0896 | 0.813 | 0.754 | 99.5 | 90.8 | 10 | 16.0-121 | | | 7.54 | 32 |
| 1,2,4-Trichlorobenzene | 0.727 | U | 0.650 | 0.544 | 89.4 | 74.4 | 10 | 12.0-120 | J | J | 17.7 | 37 |
| 4-Chloro-3-methylphenol | 0.727 | U | 0.653 | 0.620 | 89.7 | 84.8 | 10 | 15.0-120 | J | J | 5.08 | 30 |
| 2-Chlorophenol | 0.727 | U | 0.642 | 0.573 | 88.2 | 78.4 | 10 | 15.0-120 | J | J | 11.2 | 37 |
| 2,4-Dichlorophenol | 0.727 | U | 0.665 | 0.634 | 91.4 | 86.6 | 10 | 20.0-120 | J | J | 4.81 | 31 |
| 2,4-Dimethylphenol | 0.727 | U | 0.609 | 0.533 | 83.7 | 72.9 | 10 | 10.0-120 | J | J | 13.3 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.727 | U | U | U | 45.7 | 48.8 | 10 | 10.0-120 | J | J | 7.12 | 39 |
| 2,4-Dinitrophenol | 0.652 | U | U | U | 0.000 | 0.000 | 10 | 10.0-121 | J6 | J6 | 0.000 | 40 |
| 2-Nitrophenol | 0.727 | U | 0.654 | 0.581 | 89.9 | 79.4 | 10 | 12.0-120 | J | J | 11.7 | 39 |
| 4-Nitrophenol | 0.727 | U | 0.669 | 0.630 | 92.0 | 86.1 | 10 | 10.0-137 | J | J | 6.01 | 32 |
| Pentachlorophenol | 0.727 | U | 1.10 | 1.06 | 152 | 144 | 10 | 10.0-160 | J | J | 4.34 | 31 |
| Phenol | 0.727 | U | 0.610 | 0.544 | 83.9 | 74.4 | 10 | 12.0-120 | J | J | 11.4 | 38 |
| 2,4,6-Trichlorophenol | 0.727 | U | 0.685 | 0.635 | 94.2 | 86.7 | 10 | 19.0-120 | J | J | 7.61 | 32 |
| *(S) 2-Fluorophenol* | | | | | *98.0* | *84.5* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *90.8* | *77.3* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *71.2* | *59.8* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *92.6* | *77.7* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *91.7* | *89.5* | | *10.0-127* | | | | |

## L1738627-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738627-02 05/31/24 02:48 • (MS) R4075641-1 05/31/24 03:13 • (MSD) R4075641-2 05/31/24 03:37

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| *(S) p-Terphenyl-d14* | | | | | *96.6* | *97.6* | | *10.0-120* | | | | |

**Sample Narrative:**

OS: Dilution due to matrix impact during extract concentration procedure

MS: Dilution due to matrix impact during extract concentration procedure

MSD: Dilution due to matrix impact during extract concentration procedure

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |

# GLOSSARY OF TERMS

| Qualifier | Description |
|---|---|
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project # 1793.00308000

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Ayuayo + A. Vonk

Site/Facility ID # —

P.O. # —

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote # —

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres (PVOA) | V8270 4ozClr-NoPres (SVOA) | 8260 40mlAmb/MeOH10ml/Syr (VOA) | MOD. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-A1-1-1.0 | Grab | SS | 1' | 05/20/24 | 0812 | 3-4 | | | | X | X | | X | | | | -01 |
| G-A1-1-2.0 | | SS | 2' | | 0822 | | | | | | X | X | X | | | | -02 |
| G-A1-1-3.0 | | SS | 3' | | 0828 | | | | | | X | X | X | | | | -03 |
| G-A1-1-4.0 | | SS | 4' | | 0843 | | | | | | | | X | | | | -04 |
| G-A1-1-5.0 | | SS | 5' | | 0847 | | | | | | | X | X | | | | -05 |
| G/BS-A2-1-1.0 | | SS | 1' | | 0910 | | | | | X | X | | X | | | | -06 |
| G/BS-A2-1-2.0 | | SS | 2' | | 0918 | | | | | | X | X | X | | | | -07 |
| G/BS-A2-1-3.0 | | SS | 3' | | 0925 | | | | | | X | X | X | | | | -08 |
| G/BS-A2-1-4.0 | | SS | 4' | | 0935 | | | | | | | | X | | | | -09 |
| G/BS-A2-1-5.0 | — | SS | 5' | ↓ | 0942 | ↓ | | | | | | X | X | | | | -10 |

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Relinquished by : (Signature) — Date: 05/20/24 — Time: 1540 — Received by: (Signature)

Trip Blank Received: (Yes) No — HCL / MeoH — TBR

Relinquished by : (Signature) — Date: 5/20/24 — Time: 16:30 — Received by: (Signature) SWA COURIER

Temp: 2.0/0.1=2.1 °C — Bottles Received:

If preservation required by Login: Date/Time

Relinquished by : (Signature) — Date: — Time: — Received for lab by: (Signature) — Date: 05-21-24 — Time: 1200

Hold:

Condition: (NCF) / OK

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

Chain of Custody Page 1 of 4

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1356627
A128

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:
Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

Chain of Custody Page 2 of 4

Pace
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| | |
|---|---|
| Company Name/Address: | Roux - Oakland, CA<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |
| Billing Information: | Accounts Payable<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |
| Pres Chk | |
| Report to: | Josh Osborne |
| Email To: | josborne@rouxinc.com;rmaxwell@rouxinc.com |
| Project Description: | AB&I Redevelopment |
| City/State Collected: | Oakland / CA |
| Please Circle: | PT MT CT ET |
| Phone: | 415-967-6000 |
| Client Project # | 1793.003A5000 |
| Lab Project # | ROUXOCA-CA |
| Collected by (print): | Jessica/Annalg |
| Site/Facility ID # | — |
| P.O. # | — |
| Collected by (signature): | |
| Immediately Packed on Ice N ___ Y X | |
| Rush? (Lab MUST Be Notified) | ___ Same Day ___ Five Day<br>___ Next Day X 5 Day (Rad Only)<br>___ Two Day ___ 10 Day (Rad Only)<br>___ Three Day |
| Quote # | |
| Date Results Needed | |
| No. of Cntrs | |

SDG # L1354027

Table #

Acctnum: ROUXOCA

Template: T253291

Prelogin: P1076441

PM: 3500 - Jennifer Gambill

PB:

Shipped Via: FedEX Ground

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | 8260 60ROCAER 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | HOLD | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UC-A2-1-1.0 | Grab | SS | 1 | 5/20/24 | 1320 | 3 | | | X | X | X | | X | | | | | -11 |
| UC-A2-1-2.0 | | SS | 2 | | 1330 | | | | X | | X | | X | | | | | -12 |
| UC-A2-1-3.0 | | SS | 3 | | 1337 | | X | X | X | | X | X | X | | | | NO vols | -13 |
| UC-A2-1-4.0 | | SS | 4 | | 1350 | | | | | | | | X | | | | | -14 |
| UC-A2-1-5.0 | | SS | 5 | | 1400 | | X | X | | | | X | | | | | | -15 |
| UC-A2-1-8.0 | | SS | 8 | | 1412 | | | | | | | | X | | | | | -16 |
| UC-A2-1-10.0 | | SS | 10 | | 1422 | | | | | | | X | | | | | | -17 |
| G/BS-A3-1-1.0 | | SS | 1 | | 1015 | | | | X | X | X | | | | | | | -18 |
| G/BS-A3-1-2.0 | | SS | 2 | | 1025 | | | | X | X | X | X | | | | | | -19 |
| G/BS-A3-1-3.0 | ↓ | SS | 3 | ↓ | 1035 | ↓ | X | X | X | | X | | | | | | | -20 |

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

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

| | | | | |
|---|---|---|---|---|
| Relinquished by : (Signature) | Date: 05/20/24 | Time: 1540 | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
| Relinquished by : (Signature) | Date: 5/20/24 | Time: 16:30 | Received by: (Signature) SWS CFR 68 | Temp: °C Bottles Received: |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 3 of 4

Company Name/Address:
**Roux - Oakland, CA**
555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # 1793.00305000

Lab Project # **ROUXOCA-CA**

Collected by (print): Jesse Arnold

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | HOLD | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GIBS-A3-1-4.0 | Grab | SS | 4 | 5/20/24 | 1042 | 3-4 | | | | | | | X | | -21 |
| GIBS-A3-1-5.0 | | SS | 5 | | 1050 | | X | X | | | | X | | | -22 |
| UC-A3-1-1.0 | | SS | 1 | | 1120 | 3 | | | X | X | X | | | | -23 |
| UC-A3-1-2.0 | | SS | 2 | | 1130 | 3 | | | | | | X | | | -24 |
| UC-A3-1-3.0 | | SS | 3 | | 1135 | 3 | X | X | X | | | | | | -25 |
| UC-A3-1-4.0 | | SS | 4 | | 1145 | 3 | | | | | | | X | | -26 |
| UC-A3-1-5.0 | | SS | 5 | | 1152 | | X | X | | | | X | | | -27 |
| UC-A3-1-8.0 | | SS | 8 | | 1200 | | DUP X | X DUP | | | DUP | X | X | | -28 |
| UC-A3-1-10.0 | | SS | 10 | | 1210 | | | | | | | X | | | -29 |

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 05/20/24 | 1510 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | 5/20/24 | 16:30 | SWA CARGO |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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

Pace
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**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # UT58627

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland CA.

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project # 1793.00305000

Lab Project # **ROUXOCA-CA**

Collected by (print): T. Aguayo & A. Vonk

Site/Facility ID # –

P.O. # –

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote # –

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres (PCBs) | V8270 4ozClr-NoPres (SVOCs) | 8260 40mlAmb/MeOH10ml/Syr (VOCs) | HOLD. | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-B1-1-1.0 | Grab | SS | 1 | 05/20/24 | 1500 | 3 | X | | X | X | X | | X | | | | -30 |
| BS-B1-1-2.0 | | SS | 2 | | 1505 | | | | X | | X | X | X | | | | -31 |
| BS-B1-1-3.0 | | SS | 3 | | 1510 | | X | X | X | | X | X | X | | | | -32 |
| BS-B1-1-4.0 | | SS | 4 | | 1515 | | | | | | | | X | | | | -33 |
| BS-B1-1-5.0 | ↓ | SS | 5 | ↓ | 1522 | ↓ | X | X | | | | X | X | | | | -34 |
| EB-052024. | Grab. | SS | – | | 1530 | 4 | X | X | X | X | X | X | | | | | -35 |
| TB-052024. | – | SS | – | | 1200 | | | | | | X | | | | | | -36 |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |

Chain of Custody Page 4 of 4

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1358627

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 5/20/24 | 1540. | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: |
| | 5/20/24 | 16:30 | JUVA CORCO | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: |
| | | | | |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

L17358627

| Tracking Numbers | Temperature |
|---|---|
| SWA | 2.0 to 1=2.1 |
| SWA | 1.7 to 0.1 = 1.8 |
| | |
| | |
| | |
| | |
| | |
| | |
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| | |
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Troy C
Name

05-21-24
Date

## 5/21-NCF-L1738627 ROUXOCA

R5

**Time estimate:** oh **Time spent:** oh

**Members**

Hailey Robertson (responsible) Jennifer Gambill

Due on *24 May 2024 8:00 AM* for target *Done*

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

1738627

**Comments**

*Hailey Robertson* *21 May 2024 3:23 PM*

1) For ID: EB-052024 we did not receive the 8082 or 8270 containers.
2) For the trip blank the client marks SV8270 but I currently have it logged as V8260.

*Jennifer Gambill* *21 May 2024 3:43 PM*

Please run VOCs by 8260 for the Trip Blank.

*Jennifer Gambill* *21 May 2024 4:35 PM*

Per client concerning sample EB-052024:
The EB-052024 sample should have only been noted for VOC, TPH-g, -d, -mo (DROCAERLVI, GROCA), and total metals analysis.

*Hailey Robertson* *21 May 2024 4:36 PM*

Done

# Pace Analytical National

**Login Confirmation Report**

May 22, 2024 - 15:14

**Account: ROUXOCA - Roux - Oakland, CA**

| | | | |
|---|---|---|---|
| SDG | L1738627 | Receive Date: 05/21/2024 | Project Manager: Jennifer Gambill |
| Template # | | | Entered By: Hailey R Melson |
| Report to: | Josh Osborne | Lab Project Number: ROUXOCA-CA | **Report MDL: Y** |
| | 555 12th Street | Client Project # 1793.00308000 | **HDC: N** |
| | Suite 250 | Project Description: | PO # |
| | Oakland, CA 94607 | Collected By: JA/AV | PO Req: N |
| Phone: | (415) 967-6000 | Reg. State: CA | Terms: 20 |
| Email: | josborne@rouxinc.com;rmaxwell@rouxinc.com | | Quote # |

**Project Manager Notes:** ****Only use AEI flow controllers for the SUMMA1L.****

**BNSF Site has no MLF.**

**Air EDD, report in ug/m3.**

| Matrix | Test | Sample ID | Collection Date | Design ID | Method | Unit Price |
|---|---|---|---|---|---|---|
| **L1738627-01** | | **G-A1-1-1.0** | **05/20/2024 08:12** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: SVOC, CAM17 Metals, PCBs | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | Hold: TPHg/d/mo | | | $ 7.00 |
| Misc | ENERGY | Environmental Impact Fee | | | | $ 0.00 |
| Misc | SCLOGFRT | Logistical Freight | | | | $ 0.00 |
| **L1738627-02** | | **G-A1-1-2.0** | **05/20/2024 08:22** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, SVOC, CAM17 Metals | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | Hold: TPHg/d/mo and PCBs | | | $ 7.00 |
| **L1738627-03** | | **G-A1-1-3.0** | **05/20/2024 08:28** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, SVOC, TPHg/d/mo, CAM17 Metals | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | Hold: PCBs | | | $ 7.00 |
| **L1738627-04** | | **G-A1-1-4.0** | **05/20/2024 08:43** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |

**The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.**

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| **L1738627-05** | | **G-A1-1-5.0** | **05/20/2024 08:47**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | Analyze: VOCs, TPHg/d/mo<br>Hold: SVOC, CAM17 Metals, PCBs | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1738627-06** | | **G/BS-A2-1-1.0** | **05/20/2024 09:10**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | Analyze: SVOC, CAM17 Metals, PCBs<br>Hold: TPHg/d/mo | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1738627-07** | | **G/BS-A2-1-2.0** | **05/20/2024 09:18**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | Analyze: VOCs, SVOC, CAM17 Metals<br>Hold: TPHg/d/mo and PCBs | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1738627-08** | | **G/BS-A2-1-3.0** | **05/20/2024 09:25**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | Analyze: VOCs, SVOC, TPHg/d/mo, CAM17 Metals<br>Hold: PCBs | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1738627-09** | | **G/BS-A2-1-4.0** | **05/20/2024 09:35**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1738627-10** | | **G/BS-A2-1-5.0** | **05/20/2024 09:42**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | Analyze: VOCs, TPHg/d/mo<br>Hold: SVOC, CAM17 Metals, PCBs | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1738627-11** | | **UC-A2-1-1.0** | **05/20/2024 13:20**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | Analyze: SVOC, CAM17 Metals, PCBs<br>Hold: TPHg/d/mo | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1738627-12** | | **UC-A2-1-2.0** | **05/20/2024 13:30**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | Analyze: VOCs, SVOC, CAM17 Metals<br>Hold: TPHg/d/mo and PCBs | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1738627-13** | | **UC-A2-1-3.0** | **05/20/2024 13:37**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | Analyze: SVOC, TPHg/d/mo, CAM17 Metals<br>Hold: VOCs and PCBs | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |

**The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.**

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| **L1738627-14** | | **UC-A2-1-4.0** | **05/20/2024 13:50**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-15** | | **UC-A2-1-5.0** | **05/20/2024 14:00**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | DROCAER | DRO/ORO California Extended | | UDEFAULT | 8015 | $ 86.25 |
| SS | GROCA | GROCA | Analyze: VOCs, TPHg/d/mo | UDEFAULT | 8015 | $ 60.00 |
| SS | TERRACORE | Terracore 5035 kit | Hold: SVOC, CAM17 Metals, PCBs | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-16** | | **UC-A2-1-8.0** | **05/20/2024 14:12**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-17** | | **UC-A2-1-10.0** | **05/20/2024 14:22**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| SS | TS | Total Solids | Analyze: VOCs | DEFAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | Hold: SVOC, TPHg/d/mo, CAM17 Metals, PCBs | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |

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| **L1738627-18** | | **G/BS-A3-1-1.0** | **05/20/2024 10:15** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | M6010CAM17 | California Title 22 Metals List | | | | $ 166.25 |
| SS | AGICP | Silver | | UDEFAULT | 6010B | $ 0.00 |
| SS | ASICP | Arsenic | | UDEFAULT | 6010B | $ 0.00 |
| SS | BAICP | Barium | | UDEFAULT | 6010B | $ 0.00 |
| SS | BEICP | Beryllium | | UDEFAULT | 6010B | $ 0.00 |
| SS | CDICP | Cadmium | | UDEFAULT | 6010B | $ 0.00 |
| SS | COICP | Cobalt | Analyze: as listed here | UDEFAULT | 6010B | $ 0.00 |
| SS | CRICP | Chromium | Hold: TPHg/d/mo | UDEFAULT | 6010B | $ 0.00 |
| SS | CUICP | Copper | | UDEFAULT | 6010B | $ 0.00 |
| SS | HG | Mercury | | UDEFAULT | 7471A | $ 0.00 |
| SS | MOICP | Molybdenum | | UDEFAULT | 6010B | $ 0.00 |
| SS | NIICP | Nickel | | UDEFAULT | 6010B | $ 0.00 |
| SS | PBICP | Lead by 6010B | | UDEFAULT | 6010B | $ 0.00 |
| SS | SBICP | Antimony | | UDEFAULT | 6010B | $ 0.00 |
| SS | SEICP | Selenium | | UDEFAULT | 6010B | $ 0.00 |
| SS | TLICP | Thallium | | UDEFAULT | 6010B | $ 0.00 |
| SS | VICP | Vanadium | | UDEFAULT | 6010B | $ 0.00 |
| SS | ZNICP | Zinc | | UDEFAULT | 6010B | $ 0.00 |
| SS | SV8082 | PCBs | | UDEFAULT | 8082 | $ 112.50 |
| SS | SV8270 | SVOCs by 8270C | | UDEFAULT | 8270C | $ 252.50 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-19** | | **G/BS-A3-1-2.0** | **05/20/2024 10:25** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | M6010CAM17 | California Title 22 Metals List | | | | $ 166.25 |
| SS | SV8082 | ~~PCBs~~ | | UDEFAULT | 8082 | $ 112.50 |
| SS | SV8270 | SVOCs by 8270C | Analyze: VOCs, SVOC, CAM17 Metals | UDEFAULT | 8270C | $ 252.50 |
| SS | TERRACORE | Terracore 5035 kit | Hold: TPHg/d/mo and PCBs | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-20** | | **G/BS-A3-1-3.0** | **05/20/2024 10:35** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | DROCAER | DRO/ORO California Extended | | UDEFAULT | 8015 | $ 86.25 |
| SS | GROCA | GROCA | | UDEFAULT | 8015 | $ 60.00 |
| SS | M6010CAM17 | California Title 22 Metals List | | | | $ 166.25 |
| SS | SV8270 | SVOCs by 8270C | Analyze: VOCs, SVOC, TPHg/d/mo, CAM17 Metals | UDEFAULT | 8270C | $ 252.50 |
| SS | TERRACORE | Terracore 5035 kit | Hold: PCBs | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-21** | | **G/BS-A3-1-4.0** | **05/20/2024 10:42** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |

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| **L1738627-22** | | **G/BS-A3-1-5.0** | **05/20/2024 10:50**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | DROCAER | DRO/ORO California Extended | | UDEFAULT | 8015 | $ 86.25 |
| SS | GROCA | GROCA | Analyze: VOCs, and TPHg/d/mo | UDEFAULT | 8015 | $ 60.00 |
| SS | TERRACORE | Terracore 5035 kit | Hold: SVOCs, CAM17 Metals, and PCBs | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-23** | | **UC-A3-1-1.0** | **05/20/2024 11:20**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | M6010CAM17 | California Title 22 Metals List | | | | $ 166.25 |
| SS | SV8082 | PCBs | | UDEFAULT | 8082 | $ 112.50 |
| SS | SV8270 | SVOCs by 8270C | Analyze: as listed here | UDEFAULT | 8270C | $ 252.50 |
| SS | TERRACORE | Terracore 5035 kit | Hold: TPHg/d/mo | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-24** | | **UC-A3-1-2.0** | **05/20/2024 11:30**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| SS | TS | Total Solids | Analyze: VOCs, SVOCs ,CAM17 Metals, and PCBs | DEFAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | Hold: TPHg/d/mo | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-25** | | **UC-A3-1-3.0** | **05/20/2024 11:35**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | DROCAER | DRO/ORO California Extended | | UDEFAULT | 8015 | $ 86.25 |
| SS | GROCA | GROCA | Analyze: SVOCs, TPHg/d/mo, CAM17 Metals | UDEFAULT | 8015 | $ 60.00 |
| SS | M6010CAM17 | California Title 22 Metals List | Hold: VOCs and PCBs | | | $ 166.25 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-26** | | **UC-A3-1-4.0** | **05/20/2024 11:45**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-27** | | **UC-A3-1-5.0** | **05/20/2024 11:52**<br>Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| SS | DROCAER | DRO/ORO California Extended | | UDEFAULT | 8015 | $ 86.25 |
| SS | GROCA | GROCA | | UDEFAULT | 8015 | $ 60.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, and TPHg/d/mo | | | $ 15.00 |
| SS | TS | Total Solids | Hold: SVOCs, CAM17 Metals, and PCBs | DEFAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |

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| **L1738627-28** | | **UC-A3-1-8.0** | **05/20/2024 12:00** Sample Description: AB&I Redevelopment | **Site:** | | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-29** | | **UC-A3-1-10.0** | **05/20/2024 12:10** Sample Description: AB&I Redevelopment | **Site:** | | **Est. Due Date*: 05/29/2024 - RX** |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| SS | TS | Total Solids | | :FAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | | )EFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-30** | | **BS-B1-1-1.0** | **05/20/2024 15:00** Sample Description: AB&I Redevelopment | **Site:** | | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-31** | | **BS-B1-1-2.0** | **05/20/2024 15:05** Sample Description: AB&I Redevelopment | **Site:** | | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-32** | | **BS-B1-1-3.0** | **05/20/2024 15:10** Sample Description: AB&I Redevelopment | **Site:** | | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-33** | | **BS-B1-1-4.0** | **05/20/2024 15:15** Sample Description: AB&I Redevelopment | **Site:** | | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-34** | | **BS-B1-1-5.0** | **05/20/2024 15:22** Sample Description: AB&I Redevelopment | **Site:** | | **Est. Due Date*: 05/29/2024 - RX** |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |

Analyze: VOCs
Hold: TPHg/d/mo, SVOCs, CAM17 Metals, and PCBs

Analyze: SVOCs, CAM17 Metals, PCBs
Hold: TPHg/d/mo

Analyze: VOCs, SVOCs, CAM17 Metals
Hold: TPHg/d/mo, PCBs

Analyze: VOCs, SVOCs, TPHg/d/mo, CAM17 Metals
Hold: PCBs

Analyze: VOCs, TPHg/d/mo
Hold: SVOCs, CAM17 Metals, PCBs

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| **L1738627-35** | | **EB-052024** | **05/20/2024 15:30** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| GW | DROCAERLVI | DRO/ORO California Extended by LVI | | UPPB | 3511/8015 | $ 86.25 |
| GW | GROCA | GROCA | | UPPB | 8015 | $ 60.00 |
| GW | M6010CAM17 | California Title 22 Metals List | | | | $ 166.25 |
| GW | AGG | Silver by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | ASG | Arsenic by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | BAG | Barium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | BEG | Beryllium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | CDG | Cadmium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | COG | Cobalt by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | CRG | Chromium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | CUG | Copper by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | HG | Mercury | | UDEFAULT | 7470A | $ 0.00 |
| GW | MOG | Molybdenum by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | NIG | Nickel by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | PBG | Lead by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | SBG | Antimony by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | SEG | Selenium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | TLG | Thallium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | VG | Vanadium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | ZNG | Zinc by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | V8260 | VOCs by 8260 | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1738627-36** | | **TB-052024** | **05/20/2024 12:00** Sample Description: AB&I Redevelopment | **Site:** | **Est. Due Date*: 05/29/2024 - RX** | |
| GW | V8260 | VOCs by 8260 | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |

**Information Only - Not An Invoice - Do Not Pay!** Total: $ 5,122.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your Project Manager.**

**The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.**

## ROUXOCA / L1738627 / Remove from Hold

R2/R3/R4/RX/EX

For sample set L1738627, the client would like to start taking samples off of hold. Please see the attached confirmation with hightlighted comments from client. Please let me know if there are any questions.

**Time estimate:** oh **Time spent:** oh

**Members**

Jennifer Gambill

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1739342 |
| Samples Received: | 05/22/2024 |
| Project Number: | 1793.00305000 |
| Description: | AB&I Redevelopment |
| Site: | AB&I |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G/UC-B1-1-1.0 L1739342-01 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:15 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 14:56 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 20:17 | JTM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/30/24 15:01 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 20:52 | NJK | Mt. Juliet, TN |

## G/UC-B1-1-2.0 L1739342-02 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:25 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295049 | 1 | 05/29/24 15:47 | 05/29/24 21:57 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 13:39 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1.21 | 05/21/24 08:25 | 05/29/24 22:35 | JHH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 22:41 | DSH | Mt. Juliet, TN |

## G/UC-B1-1-3.0 L1739342-03 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:35 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 14:58 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 20:19 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/21/24 08:35 | 05/29/24 16:26 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 08:35 | 05/29/24 22:55 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 15:34 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2300034 | 1 | 06/06/24 15:34 | 06/07/24 04:10 | DSH | Mt. Juliet, TN |

## G/UC-B1-1-4.0 L1739342-04 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:45 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298380 | 1 | 06/04/24 14:37 | 06/04/24 14:49 | JAV | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 20:04 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298400 | 1 | 05/21/24 08:45 | 06/04/24 17:59 | JHH | Mt. Juliet, TN |

## G/UC-B1-1-5.0 L1739342-05 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:55 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/21/24 08:55 | 05/29/24 16:45 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298400 | 1.08 | 05/21/24 08:55 | 06/04/24 18:18 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 16:33 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 20:11 | NJK | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-B1-1-8.0 L1739342-06 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 09:05 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298380 | 1 | 06/04/24 14:37 | 06/04/24 14:49 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298400 | 1 | 05/21/24 09:05 | 06/04/24 18:37 | JHH | Mt. Juliet, TN |

## G/UC-B1-1-10.0 L1739342-07 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 09:15 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298400 | 1 | 05/21/24 09:15 | 06/04/24 18:56 | JHH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 17:26 | NJK | Mt. Juliet, TN |

## G-B2-1-1.0 L1739342-08 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 09:45 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:05 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 20:21 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 5 | 05/30/24 08:24 | 06/01/24 13:17 | RDS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/30/24 15:29 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 19:30 | NJK | Mt. Juliet, TN |

## G-B2-1-2.0 L1739342-09 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 09:55 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:08 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 20:22 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 5 | 05/30/24 08:24 | 06/01/24 13:20 | RDS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 09:55 | 05/29/24 23:16 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/30/24 15:38 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 18:48 | NJK | Mt. Juliet, TN |

## G-B2-1-3.0 L1739342-10 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 10:05 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:10 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 20:24 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 10 | 05/30/24 08:24 | 06/01/24 13:24 | RDS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 20 | 05/30/24 08:24 | 06/01/24 15:54 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 38.3 | 05/21/24 10:05 | 05/29/24 17:04 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 10:05 | 05/29/24 23:35 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 17:44 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 19:09 | NJK | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-B2-1-4.0 L1739342-11 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 10:15 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2311827 | 1 | 06/26/24 13:38 | 06/26/24 13:44 | JAV | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2313442 | 1 | 06/27/24 16:19 | 06/27/24 20:14 | ZSA | Mt. Juliet, TN |

## G-B2-1-5.0 L1739342-12 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 10:25 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298400 | 1 | 05/21/24 10:25 | 06/04/24 19:15 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 17:30 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 20:31 | NJK | Mt. Juliet, TN |

## G-B3-1-1.0 L1739342-13 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 14:32 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294978 | 1 | 05/30/24 07:05 | 05/30/24 07:13 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:13 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 18:20 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/31/24 02:19 | HCS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 22:14 | JRM | Mt. Juliet, TN |

## G-B3-1-2.0 L1739342-14 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 14:38 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294985 | 1 | 05/29/24 14:56 | 05/29/24 15:10 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:15 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 20:09 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298045 | 1 | 06/04/24 08:49 | 06/04/24 20:20 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 14:38 | 05/29/24 23:56 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/31/24 02:11 | AMM | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 18:28 | NJK | Mt. Juliet, TN |

## G-B3-1-3.0 L1739342-15 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 14:40 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294985 | 1 | 05/29/24 14:56 | 05/29/24 15:10 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:18 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 18:21 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/21/24 14:40 | 05/29/24 17:24 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 14:40 | 05/30/24 00:16 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 13:37 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 17:46 | NJK | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-B3-1-4.0 L1739342-16 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 14:48 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298380 | 1 | 06/04/24 14:37 | 06/04/24 14:49 | JAV | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 20:06 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298400 | 1 | 05/21/24 14:48 | 06/04/24 19:34 | JHH | Mt. Juliet, TN |

## G-B3-1-5.0 L1739342-17 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 14:50 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294985 | 1 | 05/29/24 14:56 | 05/29/24 15:10 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/21/24 14:50 | 05/29/24 17:43 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 14:50 | 05/30/24 00:36 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 16:18 | JAS | Mt. Juliet, TN |

## GW-5-14.5 L1739342-18 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 13:30 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2292490 | 1 | 05/24/24 09:12 | 05/24/24 09:20 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 25 | 05/21/24 13:30 | 05/26/24 04:38 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293082 | 1 | 05/21/24 13:30 | 05/25/24 20:45 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2292509 | 1 | 05/24/24 07:27 | 05/24/24 19:00 | KDB | Mt. Juliet, TN |

## TB-01-052124 L1739342-19 GW

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 12:00 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295042 | 1 | 05/30/24 10:36 | 05/30/24 10:36 | JHH | Mt. Juliet, TN |

## BS-C1-1-1.0 L1739342-20 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:30 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294985 | 1 | 05/29/24 14:56 | 05/29/24 15:10 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295049 | 1 | 05/29/24 15:47 | 05/29/24 22:07 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 18:23 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/31/24 03:21 | HCS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 2 | 05/30/24 07:01 | 05/31/24 08:33 | DSH | Mt. Juliet, TN |

## BS-C1-1-2.0 L1739342-21 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:35 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294985 | 1 | 05/29/24 14:56 | 05/29/24 15:10 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295049 | 1 | 05/29/24 15:47 | 05/29/24 22:14 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 18:25 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2303292 | 1 | 06/12/24 14:13 | 06/13/24 11:00 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 08:35 | 05/30/24 00:56 | JHH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 19:50 | NJK | Mt. Juliet, TN |

# SAMPLE SUMMARY

## BS-C1-1-3.0 L1739342-22 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:41 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2294985 | 1 | 05/29/24 14:56 | 05/29/24 15:10 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295049 | 1 | 05/29/24 15:47 | 05/29/24 22:17 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295058 | 1 | 05/30/24 08:24 | 05/31/24 17:45 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/21/24 08:41 | 05/29/24 18:02 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 08:41 | 05/30/24 01:16 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 17:59 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 1 | 05/30/24 07:01 | 05/30/24 21:54 | NJK | Mt. Juliet, TN |

## BS-C1-1-5.0 L1739342-24 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 08:58 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/21/24 08:58 | 05/29/24 18:21 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 08:58 | 05/30/24 01:37 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 10 | 05/30/24 06:42 | 05/31/24 09:29 | JAS | Mt. Juliet, TN |

## G/UC-C1-1-1.0 L1739342-25 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 09:35 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:20 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 13:47 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 25 | 05/21/24 09:35 | 06/05/24 01:16 | ACG | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/31/24 03:30 | HCS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 10 | 05/30/24 07:01 | 05/31/24 06:50 | DSH | Mt. Juliet, TN |

## G/UC-C1-1-2.0 L1739342-26 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 09:50 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:22 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 13:48 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 30.5 | 05/21/24 09:50 | 06/05/24 01:39 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295400 | 1.15 | 05/21/24 09:50 | 05/30/24 15:16 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 100 | 06/06/24 05:50 | 06/06/24 19:13 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 10 | 05/30/24 07:01 | 05/31/24 07:10 | DSH | Mt. Juliet, TN |

## G/UC-C1-1-3.0 L1739342-27 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 09:51 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:25 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 13:50 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 27.3 | 05/21/24 09:51 | 05/29/24 18:41 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 100 | 05/30/24 06:42 | 05/30/24 19:54 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 10 | 05/30/24 07:01 | 05/31/24 07:31 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-C1-1-4.0 L1739342-28 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 10:07 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298380 | 1 | 06/04/24 14:37 | 06/04/24 14:49 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 31 | 05/21/24 10:07 | 06/05/24 02:02 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 100 | 06/06/24 05:50 | 06/06/24 19:28 | JAS | Mt. Juliet, TN |

## G/UC-C1-1-5.0 L1739342-29 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 10:08 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/21/24 10:08 | 05/29/24 19:00 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 10:08 | 05/30/24 01:57 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295238 | 1 | 05/30/24 06:42 | 05/30/24 17:16 | JAS | Mt. Juliet, TN |

## G/UC-C1-1-10.0 L1739342-31 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 10:27 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 10:27 | 05/30/24 02:17 | JHH | Mt. Juliet, TN |

## G-C2-1-1.0 L1739342-32 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 11:18 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:27 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 13:58 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 25 | 05/21/24 11:18 | 06/05/24 02:25 | ACG | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/31/24 02:37 | AMM | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 10 | 05/30/24 07:01 | 05/31/24 07:51 | DSH | Mt. Juliet, TN |

## G-C2-1-2.0 L1739342-33 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 11:30 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:34 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 13:59 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 25 | 05/21/24 11:30 | 06/05/24 02:48 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 11:30 | 05/30/24 02:38 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 100 | 06/06/24 05:50 | 06/06/24 18:16 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295242 | 10 | 05/30/24 07:01 | 05/31/24 08:12 | DSH | Mt. Juliet, TN |

## G-C2-1-3.0 L1739342-34 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 11:45 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:37 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 14:01 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295424 | 26.3 | 05/21/24 11:45 | 05/30/24 12:56 | JAH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-C2-1-3.0 L1739342-34 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 11:45 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295400 | 1 | 05/21/24 11:45 | 05/30/24 15:35 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 200 | 05/30/24 06:53 | 05/31/24 11:54 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 20 | 05/30/24 07:05 | 06/01/24 00:50 | AMS | Mt. Juliet, TN |

## G-C2-1-4.0 L1739342-35 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 11:55 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2302291 | 1 | 06/10/24 16:13 | 06/10/24 16:19 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 25 | 05/21/24 11:55 | 06/05/24 03:11 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 100 | 06/06/24 05:50 | 06/06/24 20:11 | JAS | Mt. Juliet, TN |

## G-C2-1-5.0 L1739342-36 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 12:05 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295025 | 1 | 05/29/24 15:13 | 05/29/24 15:29 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 28 | 05/21/24 12:05 | 05/29/24 19:19 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 12:05 | 05/30/24 02:58 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 1 | 05/30/24 06:53 | 05/30/24 19:18 | JAS | Mt. Juliet, TN |

## G-C3-1-1.0 L1739342-37 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 13:10 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295026 | 1 | 05/30/24 07:17 | 05/30/24 07:27 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:39 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 14:03 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 29.3 | 05/21/24 13:10 | 06/05/24 03:34 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 100 | 06/06/24 05:50 | 06/07/24 12:34 | JAS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2295241 | 1 | 05/30/24 07:21 | 05/31/24 03:12 | HCS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 10 | 05/30/24 07:05 | 06/02/24 10:38 | ALM | Mt. Juliet, TN |

## G-C3-1-2.0 L1739342-38 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 13:17 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295026 | 1 | 05/30/24 07:17 | 05/30/24 07:27 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:42 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 14:04 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 25 | 05/21/24 13:17 | 06/05/24 03:57 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295165 | 1 | 05/21/24 13:17 | 05/30/24 03:18 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 1 | 06/06/24 05:50 | 06/06/24 15:20 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 1 | 05/30/24 07:05 | 05/31/24 19:31 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-C3-1-3.0 L1739342-39 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 13:21 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295026 | 1 | 05/30/24 07:17 | 05/30/24 07:27 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295032 | 1 | 05/29/24 15:32 | 05/30/24 15:44 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295060 | 1 | 05/31/24 13:10 | 06/01/24 14:06 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/21/24 13:21 | 05/29/24 19:38 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295869 | 1 | 05/21/24 13:21 | 05/30/24 18:35 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 20 | 05/30/24 06:53 | 05/30/24 19:59 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 10 | 05/30/24 07:05 | 05/31/24 23:36 | JRM | Mt. Juliet, TN |

## G-C3-1-4.0 L1739342-40 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 13:23 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298380 | 1 | 06/04/24 14:37 | 06/04/24 14:49 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 27.3 | 05/21/24 13:23 | 06/05/24 04:20 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 100 | 06/06/24 05:50 | 06/06/24 18:30 | JAS | Mt. Juliet, TN |

## G-C3-1-5.0 L1739342-41 Solid

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 13:33 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2292490 | 1 | 05/24/24 09:12 | 05/24/24 09:20 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293479 | 30 | 05/21/24 13:33 | 05/26/24 04:58 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2293082 | 1.2 | 05/21/24 13:33 | 05/25/24 21:04 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2292509 | 1 | 05/24/24 07:27 | 05/24/24 20:37 | KDB | Mt. Juliet, TN |

## TB-2-052124 L1739342-42 GW

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 00:00 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295042 | 1 | 05/30/24 10:57 | 05/30/24 10:57 | JHH | Mt. Juliet, TN |

## EB-052124 L1739342-43 GW

Collected by: J.A./A.V./J.C/D.B. | Collected date/time: 05/21/24 15:07 | Received date/time: 05/22/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2292614 | 1 | 05/26/24 16:06 | 05/27/24 15:07 | AKB | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2294310 | 1 | 05/29/24 10:35 | 05/30/24 00:13 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293775 | 1 | 05/27/24 02:11 | 05/27/24 02:11 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295042 | 1 | 05/30/24 11:18 | 05/30/24 11:18 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296326 | 1 | 05/31/24 16:43 | 06/02/24 08:28 | DMG | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/08/24 17:28
Level II Report - Version 2: 08/16/24 10:54

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B1-1-1.0 | L1739342-01 | Mercury | 0.0757 | | 0.0207 | 0.0461 | 1 | 05/30/2024 14:56 | WG2295032 |
| G/UC-B1-1-2.0 | L1739342-02 | Mercury | 0.0740 | | 0.0218 | 0.0485 | 1 | 05/29/2024 21:57 | WG2295049 |
| G/UC-B1-1-3.0 | L1739342-03 | Mercury | 0.0288 | J | 0.0197 | 0.0439 | 1 | 05/30/2024 14:58 | WG2295032 |
| G-B2-1-1.0 | L1739342-08 | Mercury | 0.108 | | 0.0194 | 0.0430 | 1 | 05/30/2024 15:05 | WG2295032 |
| G-B2-1-2.0 | L1739342-09 | Mercury | 0.182 | | 0.0196 | 0.0436 | 1 | 05/30/2024 15:08 | WG2295032 |
| G-B2-1-3.0 | L1739342-10 | Mercury | 0.220 | | 0.0196 | 0.0435 | 1 | 05/30/2024 15:10 | WG2295032 |
| G-B3-1-1.0 | L1739342-13 | Mercury | 0.133 | | 0.0217 | 0.0483 | 1 | 05/30/2024 15:13 | WG2295032 |
| G-B3-1-2.0 | L1739342-14 | Mercury | 0.163 | | 0.0204 | 0.0453 | 1 | 05/30/2024 15:15 | WG2295032 |
| G-B3-1-3.0 | L1739342-15 | Mercury | 0.123 | | 0.0227 | 0.0503 | 1 | 05/30/2024 15:18 | WG2295032 |
| BS-C1-1-1.0 | L1739342-20 | Mercury | 0.133 | | 0.0194 | 0.0432 | 1 | 05/29/2024 22:07 | WG2295049 |
| BS-C1-1-2.0 | L1739342-21 | Mercury | 0.199 | | 0.0193 | 0.0428 | 1 | 05/29/2024 22:14 | WG2295049 |
| BS-C1-1-3.0 | L1739342-22 | Mercury | 0.0431 | J | 0.0236 | 0.0524 | 1 | 05/29/2024 22:17 | WG2295049 |
| G/UC-C1-1-1.0 | L1739342-25 | Mercury | 0.135 | | 0.0192 | 0.0426 | 1 | 05/30/2024 15:20 | WG2295032 |
| G/UC-C1-1-2.0 | L1739342-26 | Mercury | 0.0331 | J | 0.0195 | 0.0433 | 1 | 05/30/2024 15:22 | WG2295032 |
| G/UC-C1-1-3.0 | L1739342-27 | Mercury | 0.0301 | J | 0.0200 | 0.0445 | 1 | 05/30/2024 15:25 | WG2295032 |
| G-C2-1-1.0 | L1739342-32 | Mercury | 0.109 | | 0.0196 | 0.0437 | 1 | 05/30/2024 15:27 | WG2295032 |
| G-C2-1-2.0 | L1739342-33 | Mercury | 0.0708 | | 0.0194 | 0.0432 | 1 | 05/30/2024 15:34 | WG2295032 |
| G-C2-1-3.0 | L1739342-34 | Mercury | 0.101 | | 0.0191 | 0.0424 | 1 | 05/30/2024 15:37 | WG2295032 |
| G-C3-1-1.0 | L1739342-37 | Mercury | 0.132 | | 0.0194 | 0.0432 | 1 | 05/30/2024 15:39 | WG2295032 |
| G-C3-1-2.0 | L1739342-38 | Mercury | 0.0400 | J | 0.0216 | 0.0480 | 1 | 05/30/2024 15:42 | WG2295032 |
| G-C3-1-3.0 | L1739342-39 | Mercury | 0.133 | | 0.0191 | 0.0425 | 1 | 05/30/2024 15:44 | WG2295032 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B1-1-1.0 | L1739342-01 | Antimony | 1.11 | J | 0.627 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Arsenic | 44.9 | | 0.597 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Barium | 130 | | 0.0982 | 0.576 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Beryllium | 0.287 | | 0.0363 | 0.231 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Cadmium | 0.444 | J | 0.0543 | 0.576 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Chromium | 239 | | 0.153 | 1.15 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Cobalt | 8.97 | | 0.0935 | 1.15 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Copper | 29.8 | | 0.461 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Lead | 61.6 | | 0.240 | 0.576 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Molybdenum | 0.447 | J | 0.126 | 0.576 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Nickel | 39.5 | | 0.152 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Thallium | 1.69 | J | 0.454 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Vanadium | 22.1 | | 0.583 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-1.0 | L1739342-01 | Zinc | 87.7 | | 0.959 | 5.76 | 1 | 05/31/2024 20:17 | WG2295058 |
| G/UC-B1-1-2.0 | L1739342-02 | Antimony | 5.18 | J6 | 0.660 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Arsenic | 1930 | J3 O1 V | 0.628 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Barium | 842 | J3 O1 V | 0.103 | 0.606 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Beryllium | 0.194 | J | 0.0382 | 0.243 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Cadmium | 1.71 | | 0.0571 | 0.606 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Chromium | 835 | J3 V | 0.161 | 1.21 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Cobalt | 15.4 | J6 O1 | 0.0984 | 1.21 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Copper | 80.7 | | 0.485 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Lead | 138 | | 0.252 | 0.606 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Molybdenum | 1.09 | | 0.132 | 0.606 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Nickel | 166 | J3 J6 | 0.160 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Selenium | 1.48 | J | 0.927 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Silver | 0.307 | J | 0.154 | 1.21 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Thallium | 1.83 | J | 0.478 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-2.0 | L1739342-02 | Vanadium | 47.9 | J6 | 0.614 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B1-1-2.0 | L1739342-02 | Zinc | 218 | J6 | 1.01 | 6.06 | 1 | 06/01/2024 13:39 | WG2295060 |
| G/UC-B1-1-3.0 | L1739342-03 | Antimony | 0.891 | J | 0.596 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Arsenic | 3460 | | 0.568 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Barium | 723 | | 0.0934 | 0.548 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Cadmium | 0.614 | | 0.0516 | 0.548 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Chromium | 313 | | 0.146 | 1.10 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Cobalt | 3.46 | | 0.0889 | 1.10 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Copper | 50.4 | | 0.439 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Lead | 42.8 | | 0.228 | 0.548 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Molybdenum | 0.205 | J | 0.120 | 0.548 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Nickel | 42.9 | | 0.145 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Selenium | 1.15 | J | 0.838 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Vanadium | 54.0 | | 0.555 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-3.0 | L1739342-03 | Zinc | 17.6 | | 0.912 | 5.48 | 1 | 05/31/2024 20:19 | WG2295058 |
| G/UC-B1-1-4.0 | L1739342-04 | Arsenic | 311 | | 0.709 | 2.74 | 1 | 07/01/2024 20:04 | WG2315127 |
| G-B2-1-1.0 | L1739342-08 | Antimony | 5.88 | | 0.585 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Arsenic | 6.29 | | 0.557 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Barium | 50.9 | | 0.0917 | 0.538 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Beryllium | 0.181 | J | 0.0339 | 0.215 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Cadmium | 6.02 | | 0.0507 | 0.538 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Chromium | 19.9 | | 0.143 | 1.08 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Cobalt | 5.67 | | 0.0873 | 1.08 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Copper | 13600 | | 2.15 | 10.8 | 5 | 06/01/2024 13:17 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Lead | 826 | | 0.224 | 0.538 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Molybdenum | 4.36 | | 0.117 | 0.538 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Nickel | 98.1 | | 0.142 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Vanadium | 17.0 | | 0.544 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| G-B2-1-1.0 | L1739342-08 | Zinc | 9370 | | 4.48 | 26.9 | 5 | 06/01/2024 13:17 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Antimony | 7.24 | | 0.592 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Arsenic | 6.63 | | 0.564 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Barium | 77.9 | | 0.0928 | 0.544 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Beryllium | 0.144 | J | 0.0343 | 0.218 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Cadmium | 4.51 | | 0.0513 | 0.544 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Chromium | 26.2 | | 0.145 | 1.09 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Cobalt | 6.12 | | 0.0883 | 1.09 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Copper | 15300 | | 2.18 | 10.9 | 5 | 06/01/2024 13:20 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Lead | 1010 | | 0.226 | 0.544 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Molybdenum | 5.34 | | 0.119 | 0.544 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Nickel | 124 | | 0.144 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Vanadium | 22.2 | | 0.551 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| G-B2-1-2.0 | L1739342-09 | Zinc | 4250 | | 4.53 | 27.2 | 5 | 06/01/2024 13:20 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Antimony | 7.50 | | 0.591 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Arsenic | 9.54 | | 0.563 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Barium | 45.2 | | 0.0926 | 0.544 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Beryllium | 0.121 | J | 0.0342 | 0.217 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Cadmium | 5.21 | | 0.0512 | 0.544 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Chromium | 33.6 | | 0.145 | 1.09 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Cobalt | 15.5 | | 0.0882 | 1.09 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Copper | 28200 | | 4.35 | 21.7 | 10 | 06/01/2024 13:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Lead | 1830 | | 0.226 | 0.544 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Molybdenum | 6.16 | | 0.119 | 0.544 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Nickel | 174 | | 0.144 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Vanadium | 39.5 | | 0.550 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| G-B2-1-3.0 | L1739342-10 | Zinc | 28600 | | 18.0 | 109 | 20 | 06/01/2024 15:54 | WG2295058 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-B2-1-4.0 | L1739342-11 | Copper | 3730 | | 0.472 | 2.36 | 1 | 06/27/2024 20:14 | WG2313442 |
| G-B2-1-4.0 | L1739342-11 | Lead | 406 | | 0.246 | 0.590 | 1 | 06/27/2024 20:14 | WG2313442 |
| G-B2-1-4.0 | L1739342-11 | Nickel | 66.0 | | 0.156 | 2.36 | 1 | 06/27/2024 20:14 | WG2313442 |
| G-B3-1-1.0 | L1739342-13 | Antimony | 0.796 | J | 0.656 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Arsenic | 4.88 | | 0.625 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Barium | 154 | | 0.103 | 0.603 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Beryllium | 0.339 | | 0.0380 | 0.241 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Cadmium | 0.409 | J | 0.0568 | 0.603 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Chromium | 36.1 | | 0.160 | 1.21 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Cobalt | 9.34 | | 0.0978 | 1.21 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Copper | 23.5 | | 0.483 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Lead | 47.3 | | 0.251 | 0.603 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Molybdenum | 0.746 | | 0.131 | 0.603 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Nickel | 59.1 | | 0.159 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Thallium | 0.956 | J | 0.475 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Vanadium | 26.7 | | 0.610 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-1.0 | L1739342-13 | Zinc | 127 | | 1.00 | 6.03 | 1 | 05/31/2024 18:20 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Antimony | 0.797 | J | 0.616 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Arsenic | 4.16 | | 0.587 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Barium | 140 | J6 O1 | 0.0965 | 0.566 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Beryllium | 0.382 | | 0.0357 | 0.226 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Chromium | 58.2 | O1 | 0.151 | 1.13 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Cobalt | 16.9 | O1 | 0.0918 | 1.13 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Copper | 23.5 | O1 | 0.453 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Lead | 10.7 | | 0.236 | 0.566 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Nickel | 114 | J6 O1 | 0.149 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Silver | 0.299 | J | 0.144 | 1.13 | 1 | 06/04/2024 20:20 | WG2298045 |
| G-B3-1-2.0 | L1739342-14 | Thallium | 2.08 | J | 0.446 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Vanadium | 34.1 | O1 | 0.573 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-2.0 | L1739342-14 | Zinc | 40.6 | | 0.942 | 5.66 | 1 | 05/31/2024 20:09 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Arsenic | 2.88 | | 0.652 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Barium | 106 | | 0.107 | 0.629 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Beryllium | 0.265 | | 0.0396 | 0.252 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Chromium | 44.5 | | 0.167 | 1.26 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Cobalt | 9.93 | | 0.102 | 1.26 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Copper | 14.3 | | 0.503 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Lead | 6.80 | | 0.262 | 0.629 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Nickel | 87.7 | | 0.166 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Thallium | 1.10 | J | 0.496 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Vanadium | 24.4 | | 0.637 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-3.0 | L1739342-15 | Zinc | 25.9 | | 1.05 | 6.29 | 1 | 05/31/2024 18:21 | WG2295058 |
| G-B3-1-4.0 | L1739342-16 | Nickel | 110 | | 0.147 | 2.23 | 1 | 07/01/2024 20:06 | WG2315127 |
| BS-C1-1-1.0 | L1739342-20 | Antimony | 0.840 | J | 0.588 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Arsenic | 4.02 | | 0.560 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Barium | 139 | | 0.0920 | 0.540 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Beryllium | 0.173 | J | 0.0340 | 0.216 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Cadmium | 0.140 | J | 0.0509 | 0.540 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Chromium | 21.7 | | 0.144 | 1.08 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Cobalt | 7.77 | | 0.0876 | 1.08 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Copper | 20.6 | | 0.432 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Lead | 42.3 | | 0.225 | 0.540 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Molybdenum | 0.565 | | 0.118 | 0.540 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Nickel | 26.1 | | 0.143 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Thallium | 1.82 | J | 0.426 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Vanadium | 30.5 | | 0.547 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| BS-C1-1-1.0 | L1739342-20 | Zinc | 66.7 | | 0.899 | 5.40 | 1 | 05/31/2024 18:23 | WG2295058 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-C1-1-2.0 | L1739342-21 | Antimony | 1.40 | J | 0.582 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Arsenic | 5.66 | | 0.555 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Barium | 90.3 | | 0.0912 | 0.535 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Beryllium | 0.170 | J | 0.0337 | 0.214 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Cadmium | 0.170 | J | 0.0504 | 0.535 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Chromium | 27.1 | | 0.142 | 1.07 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Cobalt | 11.7 | | 0.0868 | 1.07 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Copper | 27.4 | | 0.428 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Lead | 57.4 | | 0.223 | 0.535 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Nickel | 41.6 | | 0.141 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Thallium | 1.49 | J | 0.422 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Vanadium | 38.7 | | 0.542 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-2.0 | L1739342-21 | Zinc | 92.0 | | 0.891 | 5.35 | 1 | 05/31/2024 18:25 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Antimony | 1.00 | J | 0.713 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Arsenic | 5.77 | | 0.679 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Barium | 96.9 | | 0.112 | 0.655 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Beryllium | 0.266 | | 0.0413 | 0.262 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Cadmium | 0.100 | J | 0.0617 | 0.655 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Chromium | 28.3 | | 0.174 | 1.31 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Cobalt | 10.9 | | 0.106 | 1.31 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Copper | 27.5 | | 0.524 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Lead | 19.9 | | 0.272 | 0.655 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Molybdenum | 0.261 | J | 0.143 | 0.655 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Nickel | 46.3 | | 0.173 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Thallium | 1.18 | J | 0.516 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Vanadium | 34.1 | | 0.663 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| BS-C1-1-3.0 | L1739342-22 | Zinc | 50.0 | | 1.09 | 6.55 | 1 | 05/31/2024 17:45 | WG2295058 |
| G/UC-C1-1-1.0 | L1739342-25 | Antimony | 1.84 | J | 0.579 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Arsenic | 5.05 | | 0.551 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Barium | 138 | | 0.0907 | 0.532 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Beryllium | 0.164 | J | 0.0335 | 0.213 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Cadmium | 0.153 | B J | 0.0501 | 0.532 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Chromium | 24.3 | | 0.142 | 1.06 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Cobalt | 5.54 | | 0.0863 | 1.06 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Copper | 17.5 | | 0.426 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Lead | 24.9 | | 0.221 | 0.532 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Molybdenum | 0.667 | | 0.116 | 0.532 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Nickel | 30.7 | | 0.141 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Thallium | 1.18 | J | 0.419 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Vanadium | 25.1 | | 0.539 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-1.0 | L1739342-25 | Zinc | 49.6 | | 0.886 | 5.32 | 1 | 06/01/2024 13:47 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Antimony | 0.825 | J | 0.589 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Arsenic | 6.89 | | 0.561 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Barium | 111 | | 0.0922 | 0.541 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Beryllium | 0.486 | | 0.0341 | 0.216 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Chromium | 26.3 | | 0.144 | 1.08 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Cobalt | 9.18 | | 0.0878 | 1.08 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Copper | 26.2 | | 0.433 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Lead | 22.5 | | 0.225 | 0.541 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Nickel | 41.7 | | 0.143 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Thallium | 1.24 | J | 0.426 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Vanadium | 26.3 | | 0.548 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| G/UC-C1-1-2.0 | L1739342-26 | Zinc | 53.9 | | 0.900 | 5.41 | 1 | 06/01/2024 13:48 | WG2295060 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-C1-1-3.0 | L1739342-27 | Arsenic | 3.76 | | 0.576 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Barium | 67.3 | | 0.0947 | 0.556 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Beryllium | 0.294 | | 0.0350 | 0.222 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Chromium | 17.7 | | 0.148 | 1.11 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Cobalt | 5.91 | | 0.0902 | 1.11 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Copper | 16.0 | | 0.445 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Lead | 12.7 | | 0.231 | 0.556 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Molybdenum | 0.143 | J | 0.121 | 0.556 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Nickel | 23.4 | | 0.147 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Thallium | 1.28 | J | 0.438 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Vanadium | 20.2 | | 0.563 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| G/UC-C1-1-3.0 | L1739342-27 | Zinc | 36.1 | | 0.925 | 5.56 | 1 | 06/01/2024 13:50 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Antimony | 1.50 | J | 0.594 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Arsenic | 3.60 | | 0.565 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Barium | 91.3 | | 0.0930 | 0.546 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Beryllium | 0.250 | | 0.0344 | 0.218 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Cadmium | 0.0597 | B J | 0.0514 | 0.546 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Chromium | 16.2 | | 0.145 | 1.09 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Cobalt | 7.65 | | 0.0885 | 1.09 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Copper | 20.8 | | 0.437 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Lead | 29.0 | | 0.227 | 0.546 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Molybdenum | 0.346 | J | 0.119 | 0.546 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Nickel | 25.7 | | 0.144 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Thallium | 1.75 | J | 0.430 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Vanadium | 31.0 | | 0.552 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-1.0 | L1739342-32 | Zinc | 54.2 | | 0.908 | 5.46 | 1 | 06/01/2024 13:58 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Antimony | 0.741 | J | 0.587 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Arsenic | 3.22 | | 0.559 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Barium | 104 | | 0.0920 | 0.540 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Beryllium | 0.158 | J | 0.0340 | 0.216 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Chromium | 15.4 | | 0.144 | 1.08 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Cobalt | 5.67 | | 0.0875 | 1.08 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Copper | 14.8 | | 0.432 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Lead | 16.6 | | 0.225 | 0.540 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Molybdenum | 0.287 | J | 0.118 | 0.540 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Nickel | 27.1 | | 0.142 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Thallium | 1.04 | J | 0.425 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Vanadium | 20.1 | | 0.546 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-2.0 | L1739342-33 | Zinc | 44.3 | | 0.898 | 5.40 | 1 | 06/01/2024 13:59 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Antimony | 2.15 | | 0.577 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Arsenic | 4.48 | | 0.549 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Barium | 137 | | 0.0904 | 0.530 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Beryllium | 0.205 | J | 0.0334 | 0.212 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Cadmium | 0.121 | B J | 0.0500 | 0.530 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Chromium | 19.8 | | 0.141 | 1.06 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Cobalt | 6.52 | | 0.0860 | 1.06 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Copper | 22.2 | | 0.424 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Lead | 23.3 | | 0.221 | 0.530 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Molybdenum | 0.825 | | 0.116 | 0.530 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Nickel | 30.9 | | 0.140 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Thallium | 1.44 | J | 0.418 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Vanadium | 27.6 | | 0.537 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| G-C2-1-3.0 | L1739342-34 | Zinc | 75.9 | | 0.882 | 5.30 | 1 | 06/01/2024 14:01 | WG2295060 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-C3-1-1.0 | L1739342-37 | Antimony | 1.64 | J | 0.587 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Arsenic | 2.98 | | 0.559 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Barium | 48.2 | | 0.0919 | 0.540 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Beryllium | 0.147 | J | 0.0340 | 0.216 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Cadmium | 0.0643 | B J | 0.0508 | 0.540 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Chromium | 9.41 | | 0.144 | 1.08 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Cobalt | 5.94 | | 0.0875 | 1.08 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Copper | 11.1 | | 0.432 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Lead | 19.3 | | 0.224 | 0.540 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Molybdenum | 0.455 | J | 0.118 | 0.540 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Nickel | 12.4 | | 0.142 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Thallium | 1.90 | J | 0.425 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Vanadium | 22.0 | | 0.546 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-1.0 | L1739342-37 | Zinc | 52.1 | | 0.898 | 5.40 | 1 | 06/01/2024 14:03 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Arsenic | 0.881 | J | 0.622 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Barium | 44.5 | | 0.102 | 0.600 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Beryllium | 0.189 | J | 0.0378 | 0.240 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Chromium | 2.30 | B | 0.160 | 1.20 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Cobalt | 5.02 | | 0.0974 | 1.20 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Copper | 2.28 | J | 0.480 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Lead | 3.35 | | 0.250 | 0.600 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Nickel | 2.29 | J | 0.158 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Thallium | 0.886 | J | 0.473 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Vanadium | 8.52 | | 0.607 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-2.0 | L1739342-38 | Zinc | 16.4 | B | 0.999 | 6.00 | 1 | 06/01/2024 14:04 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Antimony | 1.42 | J | 0.579 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Arsenic | 6.22 | | 0.551 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Barium | 179 | | 0.0906 | 0.532 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Beryllium | 0.193 | J | 0.0335 | 0.213 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Cadmium | 0.0544 | B J | 0.0501 | 0.532 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Chromium | 11.6 | | 0.141 | 1.06 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Cobalt | 7.11 | | 0.0863 | 1.06 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Copper | 141 | | 0.425 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Lead | 73.5 | | 0.221 | 0.532 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Molybdenum | 0.255 | J | 0.116 | 0.532 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Nickel | 18.8 | | 0.140 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Thallium | 1.89 | J | 0.419 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Vanadium | 37.9 | | 0.538 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| G-C3-1-3.0 | L1739342-39 | Zinc | 123 | | 0.885 | 5.32 | 1 | 06/01/2024 14:06 | WG2295060 |

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052124 | L1739342-43 | Arsenic | 0.297 | J | 0.180 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| EB-052124 | L1739342-43 | Barium | 5.29 | | 0.381 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| EB-052124 | L1739342-43 | Copper | 4.10 | J | 1.51 | 5.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| EB-052124 | L1739342-43 | Cobalt | 0.238 | J | 0.0596 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| EB-052124 | L1739342-43 | Lead | 1.15 | J | 0.849 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| EB-052124 | L1739342-43 | Molybdenum | 1.40 | J | 0.348 | 5.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| EB-052124 | L1739342-43 | Nickel | 1.07 | J | 0.816 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| EB-052124 | L1739342-43 | Vanadium | 1.33 | J | 0.664 | 5.00 | 1 | 05/30/2024 00:13 | WG2294310 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052124 | L1739342-43 | TPHG C5 - C12 | 55.6 | B J | 30.4 | 100 | 1 | 05/27/2024 02:11 | WG2293775 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B1-1-3.0 | L1739342-03 | TPHG C5 - C12 | 1.54 | B J | 1.00 | 3.02 | 25 | 05/29/2024 16:26 | WG2294990 |
| G/UC-B1-1-5.0 | L1739342-05 | TPHG C5 - C12 | 2.37 | B J | 1.48 | 4.45 | 25 | 05/29/2024 16:45 | WG2294990 |
| G-B2-1-3.0 | L1739342-10 | TPHG C5 - C12 | 3.33 | B J | 1.45 | 4.38 | 38.3 | 05/29/2024 17:04 | WG2294990 |
| GW-5-14.5 | L1739342-18 | TPHG C5 - C12 | 1.30 | B J | 1.28 | 3.87 | 25 | 05/26/2024 04:38 | WG2293479 |
| BS-C1-1-3.0 | L1739342-22 | TPHG C5 - C12 | 1.95 | B J | 1.40 | 4.21 | 25 | 05/29/2024 18:02 | WG2294990 |
| G/UC-C1-1-1.0 | L1739342-25 | TPHG C5 - C12 | 1.01 | B J T8 | 0.945 | 2.85 | 25 | 06/05/2024 01:16 | WG2298546 |
| G/UC-C1-1-2.0 | L1739342-26 | TPHG C5 - C12 | 1.53 | B J T8 | 1.16 | 3.51 | 30.5 | 06/05/2024 01:39 | WG2298546 |
| G/UC-C1-1-3.0 | L1739342-27 | TPHG C5 - C12 | 1.83 | B J | 1.10 | 3.32 | 27.3 | 05/29/2024 18:41 | WG2294990 |
| G/UC-C1-1-4.0 | L1739342-28 | TPHG C5 - C12 | 1.94 | B J T8 | 1.17 | 3.52 | 31 | 06/05/2024 02:02 | WG2298546 |
| G/UC-C1-1-5.0 | L1739342-29 | TPHG C5 - C12 | 1.97 | B J | 1.27 | 3.82 | 25 | 05/29/2024 19:00 | WG2294990 |
| G-C2-1-1.0 | L1739342-32 | TPHG C5 - C12 | 1.08 | B J T8 | 1.01 | 3.04 | 25 | 06/05/2024 02:25 | WG2298546 |
| G-C2-1-2.0 | L1739342-33 | TPHG C5 - C12 | 1.13 | B J T8 | 1.00 | 3.02 | 25 | 06/05/2024 02:48 | WG2298546 |
| G-C2-1-3.0 | L1739342-34 | TPHG C5 - C12 | 1.10 | J | 0.976 | 2.94 | 26.3 | 05/30/2024 12:56 | WG2295424 |
| G-C2-1-4.0 | L1739342-35 | TPHG C5 - C12 | 1.33 | B J T8 | 0.997 | 3.00 | 25 | 06/05/2024 03:11 | WG2298546 |
| G-C2-1-5.0 | L1739342-36 | TPHG C5 - C12 | 1.64 | B J | 1.45 | 4.38 | 28 | 05/29/2024 19:19 | WG2294990 |
| G-C3-1-1.0 | L1739342-37 | TPHG C5 - C12 | 1.65 | B J T8 | 1.12 | 3.36 | 29.3 | 06/05/2024 03:34 | WG2298546 |
| G-C3-1-3.0 | L1739342-39 | TPHG C5 - C12 | 1.34 | B J | 0.945 | 2.85 | 25 | 05/29/2024 19:38 | WG2294990 |
| G-C3-1-4.0 | L1739342-40 | TPHG C5 - C12 | 2.27 | B J T8 | 1.07 | 3.22 | 27.3 | 06/05/2024 04:20 | WG2298546 |
| G-C3-1-5.0 | L1739342-41 | TPHG C5 - C12 | 2.86 | B J | 1.55 | 4.66 | 30 | 05/26/2024 04:58 | WG2293479 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B1-1-4.0 | L1739342-04 | 1,4-Dichlorobenzene | 0.00256 | J | 0.00126 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| G/UC-B1-1-4.0 | L1739342-04 | Ethylbenzene | 0.00225 | J | 0.00133 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| G/UC-B1-1-4.0 | L1739342-04 | Naphthalene | 0.0106 | J | 0.00880 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| G/UC-B1-1-4.0 | L1739342-04 | n-Propylbenzene | 0.00337 | J | 0.00171 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| G/UC-B1-1-4.0 | L1739342-04 | 1,2,4-Trimethylbenzene | 0.0112 | | 0.00285 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| G/UC-B1-1-4.0 | L1739342-04 | 1,2,3-Trimethylbenzene | 0.00398 | J | 0.00285 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| G/UC-B1-1-4.0 | L1739342-04 | 1,3,5-Trimethylbenzene | 0.00709 | J | 0.00361 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| G/UC-B1-1-4.0 | L1739342-04 | Xylenes, Total | 0.0123 | | 0.00159 | 0.0117 | 1 | 06/04/2024 17:59 | WG2298400 |
| G/UC-B1-1-5.0 | L1739342-05 | Ethylbenzene | 0.00264 | J | 0.00137 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| G/UC-B1-1-5.0 | L1739342-05 | p-Isopropyltoluene | 0.00630 | J | 0.00472 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| G/UC-B1-1-5.0 | L1739342-05 | n-Propylbenzene | 0.00347 | J | 0.00177 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| G/UC-B1-1-5.0 | L1739342-05 | Toluene | 0.00673 | J | 0.00240 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| G/UC-B1-1-5.0 | L1739342-05 | 1,2,4-Trimethylbenzene | 0.00946 | | 0.00293 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| G/UC-B1-1-5.0 | L1739342-05 | 1,2,3-Trimethylbenzene | 0.00352 | J | 0.00293 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| G/UC-B1-1-5.0 | L1739342-05 | 1,3,5-Trimethylbenzene | 0.00728 | J | 0.00371 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| G/UC-B1-1-5.0 | L1739342-05 | Xylenes, Total | 0.0114 | J | 0.00163 | 0.0120 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| G/UC-B1-1-8.0 | L1739342-06 | Xylenes, Total | 0.00440 | J | 0.00130 | 0.00957 | 1 | 06/04/2024 18:37 | WG2298400 |
| G/UC-B1-1-10.0 | L1739342-07 | Xylenes, Total | 0.00318 | J | 0.00136 | 0.0100 | 1 | 06/04/2024 18:56 | WG2298400 |
| G-B2-1-2.0 | L1739342-09 | Naphthalene | 0.0100 | J | 0.00575 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| G-B2-1-2.0 | L1739342-09 | Toluene | 0.00242 | J | 0.00153 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| G-B2-1-3.0 | L1739342-10 | Naphthalene | 0.0197 | | 0.00582 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| G-B2-1-3.0 | L1739342-10 | Toluene | 0.00483 | J | 0.00155 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| G-B2-1-3.0 | L1739342-10 | 1,2,4-Trimethylbenzene | 0.00205 | J J4 | 0.00188 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| G-B2-1-3.0 | L1739342-10 | Xylenes, Total | 0.00371 | J | 0.00105 | 0.00775 | 1 | 05/29/2024 23:35 | WG2295165 |
| G-B2-1-5.0 | L1739342-12 | Xylenes, Total | 0.00432 | J | 0.00134 | 0.00989 | 1 | 06/04/2024 19:15 | WG2298400 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-B3-1-2.0 | L1739342-14 | Trichloroethene | 0.00210 | | 0.000747 | 0.00128 | 1 | 05/29/2024 23:56 | WG2295165 |
| G-B3-1-3.0 | L1739342-15 | Trichloroethene | 0.00782 | | 0.000925 | 0.00158 | 1 | 05/30/2024 00:16 | WG2295165 |
| G-B3-1-4.0 | L1739342-16 | Ethylbenzene | 0.00100 | J | 0.000924 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| G-B3-1-4.0 | L1739342-16 | Trichloroethene | 0.00646 | | 0.000733 | 0.00125 | 1 | 06/04/2024 19:34 | WG2298400 |
| G-B3-1-4.0 | L1739342-16 | Xylenes, Total | 0.00386 | J | 0.00110 | 0.00815 | 1 | 06/04/2024 19:34 | WG2298400 |
| BS-C1-1-2.0 | L1739342-21 | Methylene Chloride | 0.00840 | J | 0.00774 | 0.0291 | 1 | 05/30/2024 00:56 | WG2295165 |
| BS-C1-1-2.0 | L1739342-21 | Xylenes, Total | 0.00112 | J | 0.00103 | 0.00758 | 1 | 05/30/2024 00:56 | WG2295165 |
| BS-C1-1-5.0 | L1739342-24 | Toluene | 0.00225 | J | 0.00172 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| G/UC-C1-1-2.0 | L1739342-26 | Benzene | 0.00113 | J | 0.000620 | 0.00133 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| G/UC-C1-1-2.0 | L1739342-26 | Xylenes, Total | 0.00145 | J | 0.00117 | 0.00863 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| G/UC-C1-1-5.0 | L1739342-29 | Toluene | 0.00295 | J | 0.00199 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| G-C2-1-3.0 | L1739342-34 | Benzene | 0.000627 | J | 0.000527 | 0.00113 | 1 | 05/30/2024 15:35 | WG2295400 |
| G-C2-1-3.0 | L1739342-34 | Toluene | 0.00271 | J | 0.00147 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| G-C2-1-3.0 | L1739342-34 | Xylenes, Total | 0.00336 | J | 0.000993 | 0.00733 | 1 | 05/30/2024 15:35 | WG2295400 |
| G-C2-1-5.0 | L1739342-36 | Acetone | 0.0610 | J | 0.0583 | 0.0798 | 1 | 05/30/2024 02:58 | WG2295165 |
| G-C3-1-3.0 | L1739342-39 | Benzene | 0.000816 | J | 0.000529 | 0.00113 | 1 | 05/30/2024 18:35 | WG2295869 |
| G-C3-1-5.0 | L1739342-41 | Benzene | 0.00321 | | 0.000870 | 0.00186 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| G-C3-1-5.0 | L1739342-41 | Toluene | 0.00261 | J | 0.00242 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| G-C3-1-5.0 | L1739342-41 | Xylenes, Total | 0.00177 | J | 0.00165 | 0.0121 | 1.2 | 05/25/2024 21:04 | WG2293082 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B1-1-3.0 | L1739342-03 | C12-C22 Hydrocarbons | 1.04 | J | 0.804 | 4.39 | 1 | 05/30/2024 15:34 | WG2295238 |
| G/UC-B1-1-3.0 | L1739342-03 | C22-C32 Hydrocarbons | 4.01 | J | 1.46 | 4.39 | 1 | 05/30/2024 15:34 | WG2295238 |
| G/UC-B1-1-5.0 | L1739342-05 | C12-C22 Hydrocarbons | 2.84 | J | 1.01 | 5.48 | 1 | 05/30/2024 16:33 | WG2295238 |
| G/UC-B1-1-5.0 | L1739342-05 | C22-C32 Hydrocarbons | 14.5 | | 1.82 | 5.48 | 1 | 05/30/2024 16:33 | WG2295238 |
| G/UC-B1-1-5.0 | L1739342-05 | C32-C40 Hydrocarbons | 11.1 | | 1.82 | 5.48 | 1 | 05/30/2024 16:33 | WG2295238 |
| G-B2-1-3.0 | L1739342-10 | C12-C22 Hydrocarbons | 11.3 | | 0.797 | 4.35 | 1 | 05/30/2024 17:44 | WG2295238 |
| G-B2-1-3.0 | L1739342-10 | C22-C32 Hydrocarbons | 45.2 | | 1.45 | 4.35 | 1 | 05/30/2024 17:44 | WG2295238 |
| G-B2-1-3.0 | L1739342-10 | C32-C40 Hydrocarbons | 23.7 | | 1.45 | 4.35 | 1 | 05/30/2024 17:44 | WG2295238 |
| G-B2-1-5.0 | L1739342-12 | C12-C22 Hydrocarbons | 1.70 | J | 0.905 | 4.94 | 1 | 05/30/2024 17:30 | WG2295238 |
| G-B2-1-5.0 | L1739342-12 | C22-C32 Hydrocarbons | 6.14 | | 1.64 | 4.94 | 1 | 05/30/2024 17:30 | WG2295238 |
| G-B2-1-5.0 | L1739342-12 | C32-C40 Hydrocarbons | 8.06 | | 1.64 | 4.94 | 1 | 05/30/2024 17:30 | WG2295238 |
| G-B3-1-3.0 | L1739342-15 | C22-C32 Hydrocarbons | 2.47 | J | 1.67 | 5.03 | 1 | 05/30/2024 13:37 | WG2295238 |
| G-B3-1-3.0 | L1739342-15 | C32-C40 Hydrocarbons | 3.32 | J | 1.67 | 5.03 | 1 | 05/30/2024 13:37 | WG2295238 |
| G-B3-1-5.0 | L1739342-17 | C12-C22 Hydrocarbons | 2.23 | J | 0.964 | 5.26 | 1 | 05/30/2024 16:18 | WG2295238 |
| G-B3-1-5.0 | L1739342-17 | C22-C32 Hydrocarbons | 4.89 | J | 1.75 | 5.26 | 1 | 05/30/2024 16:18 | WG2295238 |
| G-B3-1-5.0 | L1739342-17 | C32-C40 Hydrocarbons | 5.11 | J | 1.75 | 5.26 | 1 | 05/30/2024 16:18 | WG2295238 |
| BS-C1-1-3.0 | L1739342-22 | C12-C22 Hydrocarbons | 1.20 | J | 0.960 | 5.24 | 1 | 05/30/2024 17:59 | WG2295238 |
| BS-C1-1-3.0 | L1739342-22 | C22-C32 Hydrocarbons | 9.62 | | 1.74 | 5.24 | 1 | 05/30/2024 17:59 | WG2295238 |
| BS-C1-1-3.0 | L1739342-22 | C32-C40 Hydrocarbons | 12.4 | | 1.74 | 5.24 | 1 | 05/30/2024 17:59 | WG2295238 |
| BS-C1-1-5.0 | L1739342-24 | C22-C32 Hydrocarbons | 35.8 | J | 15.3 | 46.0 | 10 | 05/31/2024 09:29 | WG2295238 |
| BS-C1-1-5.0 | L1739342-24 | C32-C40 Hydrocarbons | 51.2 | | 15.3 | 46.0 | 10 | 05/31/2024 09:29 | WG2295238 |
| G/UC-C1-1-2.0 | L1739342-26 | C22-C32 Hydrocarbons | 685 | T8 | 144 | 433 | 100 | 06/06/2024 19:13 | WG2299534 |
| G/UC-C1-1-2.0 | L1739342-26 | C32-C40 Hydrocarbons | 895 | T8 | 144 | 433 | 100 | 06/06/2024 19:13 | WG2299534 |
| G/UC-C1-1-3.0 | L1739342-27 | C22-C32 Hydrocarbons | 784 | | 148 | 445 | 100 | 05/30/2024 19:54 | WG2295238 |
| G/UC-C1-1-3.0 | L1739342-27 | C32-C40 Hydrocarbons | 1090 | | 148 | 445 | 100 | 05/30/2024 19:54 | WG2295238 |
| G/UC-C1-1-4.0 | L1739342-28 | C22-C32 Hydrocarbons | 1060 | T8 V | 143 | 430 | 100 | 06/06/2024 19:28 | WG2299534 |
| G/UC-C1-1-4.0 | L1739342-28 | C32-C40 Hydrocarbons | 1340 | T8 | 143 | 430 | 100 | 06/06/2024 19:28 | WG2299534 |
| G/UC-C1-1-5.0 | L1739342-29 | C12-C22 Hydrocarbons | 1.67 | J | 0.920 | 5.02 | 1 | 05/30/2024 17:16 | WG2295238 |
| G/UC-C1-1-5.0 | L1739342-29 | C22-C32 Hydrocarbons | 6.09 | | 1.67 | 5.02 | 1 | 05/30/2024 17:16 | WG2295238 |
| G/UC-C1-1-5.0 | L1739342-29 | C32-C40 Hydrocarbons | 7.19 | | 1.67 | 5.02 | 1 | 05/30/2024 17:16 | WG2295238 |

# DETECTION SUMMARY

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-C2-1-2.0 | L1739342-33 | C22-C32 Hydrocarbons | 773 | T8 | 144 | 432 | 100 | 06/06/2024 18:16 | WG2299534 |
| G-C2-1-2.0 | L1739342-33 | C32-C40 Hydrocarbons | 999 | T8 | 144 | 432 | 100 | 06/06/2024 18:16 | WG2299534 |
| G-C2-1-3.0 | L1739342-34 | C22-C32 Hydrocarbons | 2080 | | 282 | 848 | 200 | 05/31/2024 11:54 | WG2295239 |
| G-C2-1-3.0 | L1739342-34 | C32-C40 Hydrocarbons | 2180 | | 282 | 848 | 200 | 05/31/2024 11:54 | WG2295239 |
| G-C2-1-4.0 | L1739342-35 | C22-C32 Hydrocarbons | 1740 | T8 | 146 | 438 | 100 | 06/06/2024 20:11 | WG2299534 |
| G-C2-1-4.0 | L1739342-35 | C32-C40 Hydrocarbons | 1490 | T8 | 146 | 438 | 100 | 06/06/2024 20:11 | WG2299534 |
| G-C2-1-5.0 | L1739342-36 | C12-C22 Hydrocarbons | 2.25 | J | 0.952 | 5.19 | 1 | 05/30/2024 19:18 | WG2295239 |
| G-C2-1-5.0 | L1739342-36 | C22-C32 Hydrocarbons | 16.1 | | 1.73 | 5.19 | 1 | 05/30/2024 19:18 | WG2295239 |
| G-C2-1-5.0 | L1739342-36 | C32-C40 Hydrocarbons | 16.4 | | 1.73 | 5.19 | 1 | 05/30/2024 19:18 | WG2295239 |
| G-C3-1-1.0 | L1739342-37 | C22-C32 Hydrocarbons | 380 | J T8 | 144 | 432 | 100 | 06/07/2024 12:34 | WG2299534 |
| G-C3-1-1.0 | L1739342-37 | C32-C40 Hydrocarbons | 651 | T8 | 144 | 432 | 100 | 06/07/2024 12:34 | WG2299534 |
| G-C3-1-3.0 | L1739342-39 | C22-C32 Hydrocarbons | 145 | | 28.3 | 85.1 | 20 | 05/30/2024 19:59 | WG2295239 |
| G-C3-1-3.0 | L1739342-39 | C32-C40 Hydrocarbons | 171 | | 28.3 | 85.1 | 20 | 05/30/2024 19:59 | WG2295239 |
| G-C3-1-4.0 | L1739342-40 | C22-C32 Hydrocarbons | 1210 | T8 | 145 | 437 | 100 | 06/06/2024 18:30 | WG2299534 |
| G-C3-1-4.0 | L1739342-40 | C32-C40 Hydrocarbons | 1380 | T8 | 145 | 437 | 100 | 06/06/2024 18:30 | WG2299534 |
| G-C3-1-5.0 | L1739342-41 | C12-C22 Hydrocarbons | 1.43 | J | 0.954 | 5.21 | 1 | 05/24/2024 20:37 | WG2292509 |
| G-C3-1-5.0 | L1739342-41 | C22-C32 Hydrocarbons | 7.16 | | 1.73 | 5.21 | 1 | 05/24/2024 20:37 | WG2292509 |
| G-C3-1-5.0 | L1739342-41 | C32-C40 Hydrocarbons | 5.86 | | 1.73 | 5.21 | 1 | 05/24/2024 20:37 | WG2292509 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B1-1-1.0 | L1739342-01 | Benzo(b)fluoranthene | 0.00722 | J | 0.00716 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| G/UC-B1-1-1.0 | L1739342-01 | Pyrene | 0.00816 | J | 0.00747 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| G/UC-B1-1-2.0 | L1739342-02 | Benzo(b)fluoranthene | 0.0129 | J | 0.00753 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| G/UC-B1-1-2.0 | L1739342-02 | Benzo(g,h,i)perylene | 0.0150 | J | 0.00739 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| G/UC-B1-1-2.0 | L1739342-02 | Benzo(a)pyrene | 0.00863 | J | 0.00751 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| G/UC-B1-1-2.0 | L1739342-02 | Fluoranthene | 0.0112 | J | 0.00729 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| G/UC-B1-1-2.0 | L1739342-02 | Benzylbutyl phthalate | 0.0418 | J | 0.0126 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| G/UC-B1-1-2.0 | L1739342-02 | Pyrene | 0.0122 | J | 0.00786 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| G/UC-B1-1-5.0 | L1739342-05 | Fluoranthene | 0.0149 | J | 0.00824 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| G/UC-B1-1-5.0 | L1739342-05 | Fluorene | 0.00987 | J | 0.00743 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| G/UC-B1-1-5.0 | L1739342-05 | Naphthalene | 0.0236 | J | 0.0115 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| G/UC-B1-1-5.0 | L1739342-05 | Phenanthrene | 0.0152 | J | 0.00906 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| G/UC-B1-1-5.0 | L1739342-05 | Pyrene | 0.0145 | J | 0.00889 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Benzo(a)anthracene | 0.0155 | J | 0.00632 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Benzo(b)fluoranthene | 0.0252 | J | 0.00668 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Benzo(k)fluoranthene | 0.00842 | J | 0.00637 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Benzo(g,h,i)perylene | 0.0167 | J | 0.00655 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Benzo(a)pyrene | 0.0195 | J | 0.00666 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Chrysene | 0.0240 | J | 0.00712 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Fluoranthene | 0.0243 | J | 0.00647 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Indeno(1,2,3-cd)pyrene | 0.0134 | J | 0.0101 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Naphthalene | 0.0123 | J | 0.00899 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Phenanthrene | 0.0240 | J | 0.00711 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Pyrene | 0.0268 | J | 0.00697 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | 4-Nitrophenol | 0.0146 | J | 0.0112 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| G-B2-1-1.0 | L1739342-08 | Phenol | 0.0169 | J | 0.0144 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-B2-1-2.0 | L1739342-09 | Benzo(a)anthracene | 0.0112 | J | 0.00639 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Benzo(b)fluoranthene | 0.0281 | J | 0.00676 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Benzo(k)fluoranthene | 0.00889 | J | 0.00645 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Benzo(g,h,i)perylene | 0.0101 | J | 0.00663 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Benzo(a)pyrene | 0.0143 | J | 0.00674 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Chrysene | 0.0172 | J | 0.00721 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Fluoranthene | 0.0253 | J | 0.00654 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Naphthalene | 0.0100 | J | 0.00910 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Phenanthrene | 0.0279 | J | 0.00720 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Pyrene | 0.0177 | J | 0.00706 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-2.0 | L1739342-09 | Pentachlorophenol | 0.0195 | J | 0.00976 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Benzo(a)anthracene | 0.00683 | J | 0.00638 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Benzo(b)fluoranthene | 0.0120 | J | 0.00675 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Benzo(a)pyrene | 0.00712 | J | 0.00673 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Chrysene | 0.0102 | J | 0.00720 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Fluoranthene | 0.0137 | J | 0.00653 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Naphthalene | 0.0146 | J | 0.00909 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Phenanthrene | 0.0189 | J | 0.00719 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Pyrene | 0.0177 | J | 0.00705 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Pentachlorophenol | 0.0309 | J | 0.00974 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-3.0 | L1739342-10 | Phenol | 0.0167 | J | 0.0146 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| G-B2-1-5.0 | L1739342-12 | Fluoranthene | 0.0107 | J | 0.00742 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| G-B2-1-5.0 | L1739342-12 | Phenanthrene | 0.00896 | J | 0.00816 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| G-B2-1-5.0 | L1739342-12 | Pyrene | 0.00911 | J | 0.00800 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| G-B3-1-2.0 | L1739342-14 | Phenol | 0.0155 | J | 0.0152 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Benzo(a)anthracene | 0.0540 | J | 0.0126 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Benzo(b)fluoranthene | 0.107 | | 0.0134 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Benzo(k)fluoranthene | 0.0379 | J | 0.0127 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Benzo(g,h,i)perylene | 0.0455 | J | 0.0132 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Benzo(a)pyrene | 0.0788 | | 0.0134 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Chrysene | 0.0757 | | 0.0143 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Fluoranthene | 0.0908 | | 0.0130 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Indeno(1,2,3-cd)pyrene | 0.0367 | J | 0.0203 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Phenanthrene | 0.0305 | J | 0.0143 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-1.0 | L1739342-20 | Pyrene | 0.112 | | 0.0140 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Benzo(a)anthracene | 0.00853 | J | 0.00628 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Benzo(b)fluoranthene | 0.0357 | J | 0.00665 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Benzo(k)fluoranthene | 0.00918 | J | 0.00634 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Benzo(g,h,i)perylene | 0.0337 | J | 0.00652 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Benzo(a)pyrene | 0.0154 | J | 0.00663 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Chrysene | 0.0111 | J | 0.00709 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Fluoranthene | 0.0124 | J | 0.00643 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Indeno(1,2,3-cd)pyrene | 0.0258 | J | 0.0101 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| BS-C1-1-2.0 | L1739342-21 | Pyrene | 0.0206 | J | 0.00694 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| G/UC-C1-1-1.0 | L1739342-25 | Benzo(a)anthracene | 0.0755 | J | 0.0625 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| G/UC-C1-1-1.0 | L1739342-25 | Benzo(b)fluoranthene | 0.178 | J | 0.0661 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| G/UC-C1-1-1.0 | L1739342-25 | Benzo(g,h,i)perylene | 0.0884 | J | 0.0648 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| G/UC-C1-1-1.0 | L1739342-25 | Benzo(a)pyrene | 0.133 | J | 0.0659 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| G/UC-C1-1-1.0 | L1739342-25 | Chrysene | 0.0837 | J | 0.0705 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| G/UC-C1-1-1.0 | L1739342-25 | Fluoranthene | 0.166 | J | 0.0640 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| G/UC-C1-1-1.0 | L1739342-25 | Pyrene | 0.278 | J | 0.0690 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| G-C2-1-3.0 | L1739342-34 | Benzo(b)fluoranthene | 0.157 | J | 0.132 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| G-C2-1-3.0 | L1739342-34 | Benzo(g,h,i)perylene | 0.147 | J | 0.129 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| G-C2-1-3.0 | L1739342-34 | Benzo(a)pyrene | 0.137 | J | 0.132 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-C3-1-2.0 | L1739342-38 | Acenaphthene | 0.0346 | J | 0.00647 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| G-C3-1-2.0 | L1739342-38 | Fluorene | 0.0167 | J | 0.00651 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| G-C3-1-2.0 | L1739342-38 | Naphthalene | 0.0262 | J | 0.0100 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| G-C3-1-2.0 | L1739342-38 | Phenanthrene | 0.0138 | J | 0.00793 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| G-C3-1-3.0 | L1739342-39 | Fluoranthene | 0.0776 | J | 0.0639 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| G-C3-1-3.0 | L1739342-39 | Phenanthrene | 0.0824 | J | 0.0703 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| G-C3-1-3.0 | L1739342-39 | Pyrene | 0.0905 | J | 0.0689 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 86.8 | | 1 | 05/30/2024 07:13 | WG2294978 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0757 | | 0.0207 | 0.0461 | 1 | 05/30/2024 14:56 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.11 | J | 0.627 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| Arsenic | 44.9 | | 0.597 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| Barium | 130 | | 0.0982 | 0.576 | 1 | 05/31/2024 20:17 | WG2295058 |
| Beryllium | 0.287 | | 0.0363 | 0.231 | 1 | 05/31/2024 20:17 | WG2295058 |
| Cadmium | 0.444 | J | 0.0543 | 0.576 | 1 | 05/31/2024 20:17 | WG2295058 |
| Chromium | 239 | | 0.153 | 1.15 | 1 | 05/31/2024 20:17 | WG2295058 |
| Cobalt | 8.97 | | 0.0935 | 1.15 | 1 | 05/31/2024 20:17 | WG2295058 |
| Copper | 29.8 | | 0.461 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| Lead | 61.6 | | 0.240 | 0.576 | 1 | 05/31/2024 20:17 | WG2295058 |
| Molybdenum | 0.447 | J | 0.126 | 0.576 | 1 | 05/31/2024 20:17 | WG2295058 |
| Nickel | 39.5 | | 0.152 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| Selenium | U | | 0.881 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| Silver | U | | 0.146 | 1.15 | 1 | 05/31/2024 20:17 | WG2295058 |
| Thallium | 1.69 | J | 0.454 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| Vanadium | 22.1 | | 0.583 | 2.31 | 1 | 05/31/2024 20:17 | WG2295058 |
| Zinc | 87.7 | | 0.959 | 5.76 | 1 | 05/31/2024 20:17 | WG2295058 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0136 | 0.0392 | 1 | 05/30/2024 15:01 | WG2295241 |
| PCB 1221 | U | | 0.0136 | 0.0392 | 1 | 05/30/2024 15:01 | WG2295241 |
| PCB 1232 | U | | 0.0136 | 0.0392 | 1 | 05/30/2024 15:01 | WG2295241 |
| PCB 1242 | U | | 0.0136 | 0.0392 | 1 | 05/30/2024 15:01 | WG2295241 |
| PCB 1248 | U | | 0.00851 | 0.0196 | 1 | 05/30/2024 15:01 | WG2295241 |
| PCB 1254 | U | | 0.00851 | 0.0196 | 1 | 05/30/2024 15:01 | WG2295241 |
| PCB 1260 | U | | 0.00851 | 0.0196 | 1 | 05/30/2024 15:01 | WG2295241 |
| *(S) Decachlorobiphenyl* | *59.4* | | | *10.0-135* | | *05/30/2024 15:01* | WG2295241 |
| *(S) Tetrachloro-m-xylene* | *74.5* | | | *10.0-139* | | *05/30/2024 15:01* | WG2295241 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00621 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Acenaphthylene | U | | 0.00541 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Anthracene | U | | 0.00683 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Benzidine | U | J6 | 0.0722 | 1.92 | 1 | 05/30/2024 20:52 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00677 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Benzo(b)fluoranthene | 0.00722 | J | 0.00716 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00682 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00702 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Benzo(a)pyrene | U | | 0.00713 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0115 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0127 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0166 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0135 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00674 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0134 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Chrysene | U | | 0.00763 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0106 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0114 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0116 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0114 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0142 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0110 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0126 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Fluoranthene | U | | 0.00693 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Fluorene | U | | 0.00625 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Hexachlorobenzene | U | | 0.0136 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0129 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Hexachlorocyclopentadiene | U | J6 | 0.0202 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Hexachloroethane | U | | 0.0151 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0108 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Isophorone | U | | 0.0118 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Naphthalene | U | | 0.00964 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Nitrobenzene | U | | 0.0134 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0569 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0290 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0128 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Phenanthrene | U | | 0.00762 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0120 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0486 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0131 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Diethyl phthalate | U | | 0.0127 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Dimethyl phthalate | U | | 0.0814 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0259 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Pyrene | 0.00816 | J | 0.00747 | 0.0384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0120 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 4-Chloro-3-methylphenol | U | J3 | 0.0124 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2-Chlorophenol | U | | 0.0127 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0112 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0100 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0870 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2,4-Dinitrophenol | U | J3 | 0.0898 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2-Nitrophenol | U | | 0.0137 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 4-Nitrophenol | U | | 0.0120 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Pentachlorophenol | U | | 0.0103 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| Phenol | U | J3 J6 | 0.0154 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0123 | 0.384 | 1 | 05/30/2024 20:52 | WG2295242 |
| *(S) 2-Fluorophenol* | *54.0* | | | *12.0-120* | | *05/30/2024 20:52* | WG2295242 |
| *(S) Phenol-d5* | *48.6* | | | *10.0-120* | | *05/30/2024 20:52* | WG2295242 |
| *(S) Nitrobenzene-d5* | *42.3* | | | *10.0-122* | | *05/30/2024 20:52* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *46.6* | | | *15.0-120* | | *05/30/2024 20:52* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *41.7* | | | *10.0-127* | | *05/30/2024 20:52* | WG2295242 |
| *(S) p-Terphenyl-d14* | *51.8* | | | *10.0-120* | | *05/30/2024 20:52* | WG2295242 |

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 82.5 | | 1 | 05/30/2024 07:13 | WG2294978 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0740 | | 0.0218 | 0.0485 | 1 | 05/29/2024 21:57 | WG2295049 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 5.18 | J6 | 0.660 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| Arsenic | 1930 | J3 O1 V | 0.628 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| Barium | 842 | J3 O1 V | 0.103 | 0.606 | 1 | 06/01/2024 13:39 | WG2295060 |
| Beryllium | 0.194 | J | 0.0382 | 0.243 | 1 | 06/01/2024 13:39 | WG2295060 |
| Cadmium | 1.71 | | 0.0571 | 0.606 | 1 | 06/01/2024 13:39 | WG2295060 |
| Chromium | 835 | J3 V | 0.161 | 1.21 | 1 | 06/01/2024 13:39 | WG2295060 |
| Cobalt | 15.4 | J6 O1 | 0.0984 | 1.21 | 1 | 06/01/2024 13:39 | WG2295060 |
| Copper | 80.7 | | 0.485 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| Lead | 138 | | 0.252 | 0.606 | 1 | 06/01/2024 13:39 | WG2295060 |
| Molybdenum | 1.09 | | 0.132 | 0.606 | 1 | 06/01/2024 13:39 | WG2295060 |
| Nickel | 166 | J3 J6 | 0.160 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| Selenium | 1.48 | J | 0.927 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| Silver | 0.307 | J | 0.154 | 1.21 | 1 | 06/01/2024 13:39 | WG2295060 |
| Thallium | 1.83 | J | 0.478 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| Vanadium | 47.9 | J6 | 0.614 | 2.43 | 1 | 06/01/2024 13:39 | WG2295060 |
| Zinc | 218 | J6 | 1.01 | 6.06 | 1 | 06/01/2024 13:39 | WG2295060 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0614 | 0.0840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Acrylonitrile | U | | 0.00607 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Benzene | U | | 0.000785 | 0.00168 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Bromobenzene | U | | 0.00151 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Bromodichloromethane | U | | 0.00122 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Bromoform | U | | 0.00197 | 0.0421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Bromomethane | U | | 0.00331 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| n-Butylbenzene | U | | 0.00882 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| sec-Butylbenzene | U | | 0.00483 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| tert-Butylbenzene | U | | 0.00328 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Carbon tetrachloride | U | | 0.00151 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Chlorobenzene | U | | 0.000353 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Chlorodibromomethane | U | | 0.00103 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Chloroethane | U | | 0.00286 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Chloroform | U | | 0.00174 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Chloromethane | U | | 0.00731 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00146 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000756 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00656 | 0.0421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.00109 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Dibromomethane | U | | 0.00126 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000714 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.00101 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.00118 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00271 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000825 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.00109 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.00102 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.00123 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00175 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00239 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00136 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000842 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00127 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00192 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00232 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Di-isopropyl ether | U | | 0.000689 | 0.00168 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Ethylbenzene | U | | 0.00124 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.0101 | 0.0421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Isopropylbenzene | U | | 0.000714 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00429 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.107 | 0.168 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Methylene Chloride | U | | 0.0112 | 0.0421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00383 | 0.0421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000588 | 0.00168 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Naphthalene | U | | 0.00819 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| n-Propylbenzene | U | | 0.00160 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Styrene | U | | 0.000385 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00160 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00117 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00127 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Tetrachloroethene | U | | 0.00150 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Toluene | U | | 0.00218 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.0123 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00739 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00156 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.00100 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Trichloroethene | U | | 0.000982 | 0.00168 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00139 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00272 | 0.0210 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00265 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00265 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00336 | 0.00840 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Vinyl chloride | U | | 0.00194 | 0.00421 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| Xylenes, Total | U | | 0.00147 | 0.0109 | 1.21 | 05/29/2024 22:35 | WG2295165 |
| *(S) Toluene-d8* | *111* | | | *75.0-131* | | *05/29/2024 22:35* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *67.0-138* | | *05/29/2024 22:35* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *84.9* | | | *70.0-130* | | *05/29/2024 22:35* | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00654 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Acenaphthylene | U | | 0.00569 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Anthracene | U | | 0.00719 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Benzidine | U | | 0.0759 | 2.03 | 1 | 05/30/2024 22:41 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00712 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Benzo(b)fluoranthene | 0.0129 | J | 0.00753 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00718 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Benzo(g,h,i)perylene | 0.0150 | J | 0.00739 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.00863 | J | 0.00751 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0121 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0133 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0175 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0142 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00709 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0141 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Chrysene | U | | 0.00803 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0112 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0120 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0122 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0120 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0149 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0116 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0132 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Fluoranthene | 0.0112 | J | 0.00729 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Fluorene | U | | 0.00657 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Hexachlorobenzene | U | | 0.0143 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0136 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0212 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Hexachloroethane | U | | 0.0159 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0114 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Isophorone | U | | 0.0124 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Naphthalene | U | | 0.0101 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Nitrobenzene | U | | 0.0141 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0599 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0306 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0135 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Phenanthrene | U | | 0.00802 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Benzylbutyl phthalate | 0.0418 | J | 0.0126 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0512 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0138 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Diethyl phthalate | U | | 0.0133 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Dimethyl phthalate | U | | 0.0856 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0273 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Pyrene | 0.0122 | J | 0.00786 | 0.0404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0126 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0131 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2-Chlorophenol | U | | 0.0133 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0118 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0106 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0916 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0945 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2-Nitrophenol | U | | 0.0144 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 4-Nitrophenol | U | | 0.0126 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Pentachlorophenol | U | | 0.0109 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| Phenol | U | | 0.0163 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0130 | 0.404 | 1 | 05/30/2024 22:41 | WG2295242 |
| *(S) 2-Fluorophenol* | *51.1* | | | *12.0-120* | | *05/30/2024 22:41* | WG2295242 |
| *(S) Phenol-d5* | *47.7* | | | *10.0-120* | | *05/30/2024 22:41* | WG2295242 |
| *(S) Nitrobenzene-d5* | *39.3* | | | *10.0-122* | | *05/30/2024 22:41* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *46.0* | | | *15.0-120* | | *05/30/2024 22:41* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *42.5* | | | *10.0-127* | | *05/30/2024 22:41* | WG2295242 |
| *(S) p-Terphenyl-d14* | *51.2* | | | *10.0-120* | | *05/30/2024 22:41* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.2 | | 1 | 05/30/2024 07:13 | WG2294978 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0288 | J | 0.0197 | 0.0439 | 1 | 05/30/2024 14:58 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 0.891 | J | 0.596 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| Arsenic | 3460 | | 0.568 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| Barium | 723 | | 0.0934 | 0.548 | 1 | 05/31/2024 20:19 | WG2295058 |
| Beryllium | U | | 0.0345 | 0.219 | 1 | 05/31/2024 20:19 | WG2295058 |
| Cadmium | 0.614 | | 0.0516 | 0.548 | 1 | 05/31/2024 20:19 | WG2295058 |
| Chromium | 313 | | 0.146 | 1.10 | 1 | 05/31/2024 20:19 | WG2295058 |
| Cobalt | 3.46 | | 0.0889 | 1.10 | 1 | 05/31/2024 20:19 | WG2295058 |
| Copper | 50.4 | | 0.439 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| Lead | 42.8 | | 0.228 | 0.548 | 1 | 05/31/2024 20:19 | WG2295058 |
| Molybdenum | 0.205 | J | 0.120 | 0.548 | 1 | 05/31/2024 20:19 | WG2295058 |
| Nickel | 42.9 | | 0.145 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| Selenium | 1.15 | J | 0.838 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| Silver | U | | 0.139 | 1.10 | 1 | 05/31/2024 20:19 | WG2295058 |
| Thallium | U | | 0.432 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| Vanadium | 54.0 | | 0.555 | 2.19 | 1 | 05/31/2024 20:19 | WG2295058 |
| Zinc | 17.6 | | 0.912 | 5.48 | 1 | 05/31/2024 20:19 | WG2295058 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.54 | B J | 1.00 | 3.02 | 25 | 05/29/2024 16:26 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.3* | | | *77.0-120* | | *05/29/2024 16:26* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0442 | 0.0605 | 1 | 05/29/2024 22:55 | WG2295165 |
| Acrylonitrile | U | | 0.00437 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| Benzene | U | | 0.000565 | 0.00121 | 1 | 05/29/2024 22:55 | WG2295165 |
| Bromobenzene | U | | 0.00109 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| Bromodichloromethane | U | | 0.000877 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Bromoform | U | | 0.00142 | 0.0302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Bromomethane | U | | 0.00238 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| n-Butylbenzene | U | | 0.00635 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| sec-Butylbenzene | U | | 0.00348 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| tert-Butylbenzene | U | | 0.00236 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| Carbon tetrachloride | U | | 0.00109 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| Chlorobenzene | U | | 0.000254 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Chlorodibromomethane | U | | 0.000740 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Chloroethane | U | | 0.00206 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| Chloroform | U | | 0.00125 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Chloromethane | U | | 0.00526 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00105 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000544 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00472 | 0.0302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000784 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Dibromomethane | U | | 0.000907 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000514 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000726 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.000847 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00195 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000594 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000785 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000733 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.000888 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00126 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00172 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.000979 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000606 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.000916 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00138 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00167 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Di-isopropyl ether | U | | 0.000496 | 0.00121 | 1 | 05/29/2024 22:55 | WG2295165 |
| Ethylbenzene | U | | 0.000892 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00726 | 0.0302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Isopropylbenzene | U | | 0.000514 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00309 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0768 | 0.121 | 1 | 05/29/2024 22:55 | WG2295165 |
| Methylene Chloride | U | | 0.00803 | 0.0302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00276 | 0.0302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000423 | 0.00121 | 1 | 05/29/2024 22:55 | WG2295165 |
| Naphthalene | U | | 0.00590 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| n-Propylbenzene | U | | 0.00115 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| Styrene | U | | 0.000277 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00115 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000841 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000912 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Tetrachloroethene | U | | 0.00108 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Toluene | U | | 0.00157 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.00887 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00532 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00112 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000722 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Trichloroethene | U | | 0.000707 | 0.00121 | 1 | 05/29/2024 22:55 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00100 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00196 | 0.0151 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00191 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00191 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00242 | 0.00605 | 1 | 05/29/2024 22:55 | WG2295165 |
| Vinyl chloride | U | | 0.00140 | 0.00302 | 1 | 05/29/2024 22:55 | WG2295165 |
| Xylenes, Total | U | | 0.00106 | 0.00786 | 1 | 05/29/2024 22:55 | WG2295165 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *05/29/2024 22:55* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *99.6* | | | *67.0-138* | | *05/29/2024 22:55* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *83.3* | | | *70.0-130* | | *05/29/2024 22:55* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.04 | J | 0.804 | 4.39 | 1 | 05/30/2024 15:34 | WG2295238 |
| C22-C32 Hydrocarbons | 4.01 | J | 1.46 | 4.39 | 1 | 05/30/2024 15:34 | WG2295238 |
| C32-C40 Hydrocarbons | U | | 1.46 | 4.39 | 1 | 05/30/2024 15:34 | WG2295238 |
| *(S) o-Terphenyl* | *61.6* | | | *18.0-148* | | *05/30/2024 15:34* | WG2295238 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | T8 | 0.00591 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Acenaphthylene | U | T8 | 0.00514 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Anthracene | U | T8 | 0.00650 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Benzidine | U | T8 | 0.0686 | 1.83 | 1 | 06/07/2024 04:10 | WG2300034 |
| Benzo(a)anthracene | U | T8 | 0.00644 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Benzo(b)fluoranthene | U | T8 | 0.00681 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Benzo(k)fluoranthene | U | T8 | 0.00649 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Benzo(g,h,i)perylene | U | T8 | 0.00668 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Benzo(a)pyrene | U | T8 | 0.00679 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Bis(2-chlorethoxy)methane | U | T8 | 0.0110 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Bis(2-chloroethyl)ether | U | T8 | 0.0121 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2,2-Oxybis(1-Chloropropane) | U | T8 | 0.0158 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 4-Bromophenyl-phenylether | U | T8 | 0.0128 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2-Chloronaphthalene | U | T8 | 0.00641 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 4-Chlorophenyl-phenylether | U | T8 | 0.0127 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Chrysene | U | T8 | 0.00726 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Dibenz(a,h)anthracene | U | T8 | 0.0101 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 1,2-Dichlorobenzene | U | T8 | 0.0108 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 1,3-Dichlorobenzene | U | T8 | 0.0111 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 1,4-Dichlorobenzene | U | T8 | 0.0109 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 3,3-Dichlorobenzidine | U | T8 | 0.0135 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2,4-Dinitrotoluene | U | T8 | 0.0105 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2,6-Dinitrotoluene | U | T8 | 0.0120 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Fluoranthene | U | T8 | 0.00659 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Fluorene | U | T8 | 0.00594 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Hexachlorobenzene | U | T8 | 0.0129 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Hexachloro-1,3-butadiene | U | T8 | 0.0123 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Hexachlorocyclopentadiene | U | T8 | 0.0192 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Hexachloroethane | U | T8 | 0.0144 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Indeno(1,2,3-cd)pyrene | U | T8 | 0.0103 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Isophorone | U | T8 | 0.0112 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Naphthalene | U | T8 | 0.00917 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Nitrobenzene | U | T8 | 0.0127 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| n-Nitrosodimethylamine | U | T8 | 0.0542 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| n-Nitrosodiphenylamine | U | T8 | 0.0276 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| n-Nitrosodi-n-propylamine | U | T8 | 0.0122 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Phenanthrene | U | T8 | 0.00725 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Benzylbutyl phthalate | U | T8 | 0.0114 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Bis(2-ethylhexyl)phthalate | U | T8 | 0.0463 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Di-n-butyl phthalate | U | T8 | 0.0125 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Diethyl phthalate | U | T8 | 0.0121 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Dimethyl phthalate | U | T8 | 0.0774 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Di-n-octyl phthalate | U | T8 | 0.0247 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Pyrene | U | T8 | 0.00710 | 0.0365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 1,2,4-Trichlorobenzene | U | T8 | 0.0114 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 4-Chloro-3-methylphenol | U | T8 | 0.0118 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2-Chlorophenol | U | T8 | 0.0121 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2,4-Dichlorophenol | U | T8 | 0.0106 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | T8 | 0.00954 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 4,6-Dinitro-2-methylphenol | U | T8 | 0.0828 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2,4-Dinitrophenol | U | T8 | 0.0854 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2-Nitrophenol | U | T8 | 0.0130 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 4-Nitrophenol | U | T8 | 0.0114 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Pentachlorophenol | U | T8 | 0.00982 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| Phenol | U | T8 | 0.0147 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| 2,4,6-Trichlorophenol | U | T8 | 0.0117 | 0.365 | 1 | 06/07/2024 04:10 | WG2300034 |
| *(S) 2-Fluorophenol* | *56.5* | | | *12.0-120* | | *06/07/2024 04:10* | WG2300034 |
| *(S) Phenol-d5* | *50.6* | | | *10.0-120* | | *06/07/2024 04:10* | WG2300034 |
| *(S) Nitrobenzene-d5* | *42.1* | | | *10.0-122* | | *06/07/2024 04:10* | WG2300034 |
| *(S) 2-Fluorobiphenyl* | *49.7* | | | *15.0-120* | | *06/07/2024 04:10* | WG2300034 |
| *(S) 2,4,6-Tribromophenol* | *48.9* | | | *10.0-127* | | *06/07/2024 04:10* | WG2300034 |
| *(S) p-Terphenyl-d14* | *54.2* | | | *10.0-120* | | *06/07/2024 04:10* | WG2300034 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 73.1 | | 1 | 06/04/2024 14:49 | WG2298380 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 311 | | 0.709 | 2.74 | 1 | 07/01/2024 20:04 | WG2315127 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0658 | 0.0901 | 1 | 06/04/2024 17:59 | WG2298400 |
| Acrylonitrile | U | | 0.00651 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| Benzene | U | | 0.000842 | 0.00180 | 1 | 06/04/2024 17:59 | WG2298400 |
| Bromobenzene | U | | 0.00162 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| Bromodichloromethane | U | | 0.00131 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Bromoform | U | | 0.00211 | 0.0451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Bromomethane | U | | 0.00355 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| n-Butylbenzene | U | | 0.00946 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| sec-Butylbenzene | U | | 0.00519 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| tert-Butylbenzene | U | | 0.00352 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| Carbon tetrachloride | U | | 0.00162 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| Chlorobenzene | U | | 0.000379 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Chlorodibromomethane | U | | 0.00110 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Chloroethane | U | | 0.00306 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| Chloroform | U | | 0.00186 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Chloromethane | U | | 0.00784 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| 2-Chlorotoluene | U | | 0.00156 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 4-Chlorotoluene | U | | 0.000811 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00703 | 0.0451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2-Dibromoethane | U | | 0.00117 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Dibromomethane | U | | 0.00135 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2-Dichlorobenzene | U | | 0.000766 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,3-Dichlorobenzene | U | | 0.00108 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,4-Dichlorobenzene | 0.00256 | J | 0.00126 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| Dichlorodifluoromethane | U | | 0.00290 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,1-Dichloroethane | U | | 0.000885 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2-Dichloroethane | U | | 0.00117 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,1-Dichloroethene | U | | 0.00109 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| cis-1,2-Dichloroethene | U | | 0.00132 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| trans-1,2-Dichloroethene | U | | 0.00187 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2-Dichloropropane | U | | 0.00256 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,1-Dichloropropene | U | | 0.00146 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,3-Dichloropropane | U | | 0.000903 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| cis-1,3-Dichloropropene | U | | 0.00136 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| trans-1,3-Dichloropropene | U | | 0.00206 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 2,2-Dichloropropane | U | | 0.00249 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Di-isopropyl ether | U | | 0.000739 | 0.00180 | 1 | 06/04/2024 17:59 | WG2298400 |
| Ethylbenzene | 0.00225 | J | 0.00133 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Hexachloro-1,3-butadiene | U | | 0.0108 | 0.0451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Isopropylbenzene | U | | 0.000766 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| p-Isopropyltoluene | U | | 0.00460 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 2-Butanone (MEK) | U | | 0.114 | 0.180 | 1 | 06/04/2024 17:59 | WG2298400 |
| Methylene Chloride | U | | 0.0120 | 0.0451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00411 | 0.0451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Methyl tert-butyl ether | U | | 0.000631 | 0.00180 | 1 | 06/04/2024 17:59 | WG2298400 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Naphthalene | 0.0106 | J | 0.00880 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| n-Propylbenzene | 0.00337 | J | 0.00171 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| Styrene | U | | 0.000413 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00171 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00125 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00136 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Tetrachloroethene | U | | 0.00162 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Toluene | U | | 0.00234 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2,3-Trichlorobenzene | U | | 0.0132 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2,4-Trichlorobenzene | U | | 0.00793 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,1,1-Trichloroethane | U | | 0.00166 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,1,2-Trichloroethane | U | | 0.00108 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Trichloroethene | U | | 0.00105 | 0.00180 | 1 | 06/04/2024 17:59 | WG2298400 |
| Trichlorofluoromethane | U | | 0.00149 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2,3-Trichloropropane | U | | 0.00292 | 0.0225 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2,4-Trimethylbenzene | 0.0112 | | 0.00285 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,2,3-Trimethylbenzene | 0.00398 | J | 0.00285 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| 1,3,5-Trimethylbenzene | 0.00709 | J | 0.00361 | 0.00901 | 1 | 06/04/2024 17:59 | WG2298400 |
| Vinyl chloride | U | | 0.00209 | 0.00451 | 1 | 06/04/2024 17:59 | WG2298400 |
| Xylenes, Total | 0.0123 | | 0.00159 | 0.0117 | 1 | 06/04/2024 17:59 | WG2298400 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/04/2024 17:59* | WG2298400 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/04/2024 17:59* | WG2298400 |
| *(S) 1,2-Dichloroethane-d4* | *87.8* | | | *70.0-130* | | *06/04/2024 17:59* | WG2298400 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 72.9 | | 1 | 05/30/2024 07:13 | WG2294978 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.37 | B J | 1.48 | 4.45 | 25 | 05/29/2024 16:45 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* | | *05/29/2024 16:45* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0676 | 0.0927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Acrylonitrile | U | | 0.00669 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Benzene | U | | 0.000865 | 0.00185 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Bromobenzene | U | | 0.00167 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Bromodichloromethane | U | | 0.00134 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Bromoform | U | | 0.00216 | 0.0463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Bromomethane | U | | 0.00366 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| n-Butylbenzene | U | | 0.00973 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| sec-Butylbenzene | U | | 0.00534 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| tert-Butylbenzene | U | | 0.00362 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Carbon tetrachloride | U | | 0.00166 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Chlorobenzene | U | | 0.000390 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Chlorodibromomethane | U | | 0.00113 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Chloroethane | U | | 0.00316 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Chloroform | U | | 0.00190 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Chloromethane | U | | 0.00807 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 2-Chlorotoluene | U | | 0.00160 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 4-Chlorotoluene | U | | 0.000834 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00722 | 0.0463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2-Dibromoethane | U | | 0.00120 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Dibromomethane | U | | 0.00139 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2-Dichlorobenzene | U | | 0.000788 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,3-Dichlorobenzene | U | | 0.00111 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,4-Dichlorobenzene | U | | 0.00130 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Dichlorodifluoromethane | U | | 0.00299 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,1-Dichloroethane | U | | 0.000910 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2-Dichloroethane | U | | 0.00120 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,1-Dichloroethene | U | | 0.00112 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| cis-1,2-Dichloroethene | U | | 0.00136 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| trans-1,2-Dichloroethene | U | | 0.00192 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2-Dichloropropane | U | | 0.00263 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,1-Dichloropropene | U | | 0.00150 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,3-Dichloropropane | U | | 0.000928 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| cis-1,3-Dichloropropene | U | | 0.00140 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| trans-1,3-Dichloropropene | U | | 0.00211 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 2,2-Dichloropropane | U | | 0.00256 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Di-isopropyl ether | U | | 0.000760 | 0.00185 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Ethylbenzene | 0.00264 | J | 0.00137 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Hexachloro-1,3-butadiene | U | | 0.0111 | 0.0463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Isopropylbenzene | U | | 0.000788 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| p-Isopropyltoluene | 0.00630 | J | 0.00472 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 2-Butanone (MEK) | U | | 0.118 | 0.185 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Methylene Chloride | U | | 0.0123 | 0.0463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00422 | 0.0463 | 1.08 | 06/04/2024 18:18 | WG2298400 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000649 | 0.00185 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Naphthalene | U | | 0.00904 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| n-Propylbenzene | 0.00347 | J | 0.00177 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Styrene | U | | 0.000424 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00175 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00129 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00140 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Tetrachloroethene | U | | 0.00166 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Toluene | 0.00673 | J | 0.00240 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2,3-Trichlorobenzene | U | | 0.0136 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2,4-Trichlorobenzene | U | | 0.00815 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,1,1-Trichloroethane | U | | 0.00171 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,1,2-Trichloroethane | U | | 0.00111 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Trichloroethene | U | | 0.00108 | 0.00185 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Trichlorofluoromethane | U | | 0.00153 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2,3-Trichloropropane | U | | 0.00300 | 0.0232 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2,4-Trimethylbenzene | 0.00946 | | 0.00293 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,2,3-Trimethylbenzene | 0.00352 | J | 0.00293 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| 1,3,5-Trimethylbenzene | 0.00728 | J | 0.00371 | 0.00927 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Vinyl chloride | U | | 0.00215 | 0.00463 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| Xylenes, Total | 0.0114 | J | 0.00163 | 0.0120 | 1.08 | 06/04/2024 18:18 | WG2298400 |
| *(S) Toluene-d8* | *99.5* | | | *75.0-131* | | *06/04/2024 18:18* | WG2298400 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/04/2024 18:18* | WG2298400 |
| *(S) 1,2-Dichloroethane-d4* | *89.2* | | | *70.0-130* | | *06/04/2024 18:18* | WG2298400 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.84 | J | 1.01 | 5.48 | 1 | 05/30/2024 16:33 | WG2295238 |
| C22-C32 Hydrocarbons | 14.5 | | 1.82 | 5.48 | 1 | 05/30/2024 16:33 | WG2295238 |
| C32-C40 Hydrocarbons | 11.1 | | 1.82 | 5.48 | 1 | 05/30/2024 16:33 | WG2295238 |
| *(S) o-Terphenyl* | *31.5* | | | *18.0-148* | | *05/30/2024 16:33* | WG2295238 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00739 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Acenaphthylene | U | | 0.00643 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Anthracene | U | | 0.00813 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Benzidine | U | | 0.0858 | 2.29 | 1 | 05/30/2024 20:11 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00805 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.00852 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00812 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00835 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Benzo(a)pyrene | U | | 0.00849 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0137 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0151 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0197 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0160 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00802 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0159 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Chrysene | U | | 0.00908 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0127 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0135 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0138 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0136 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0169 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0131 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0149 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Fluoranthene | 0.0149 | J | 0.00824 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Fluorene | 0.00987 | J | 0.00743 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Hexachlorobenzene | U | | 0.0162 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0154 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0240 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Hexachloroethane | U | | 0.0180 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0129 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Isophorone | U | | 0.0140 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Naphthalene | 0.0236 | J | 0.0115 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Nitrobenzene | U | | 0.0159 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0677 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0346 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0152 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Phenanthrene | 0.0152 | J | 0.00906 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0143 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0579 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0156 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Diethyl phthalate | U | | 0.0151 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Dimethyl phthalate | U | | 0.0968 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0309 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Pyrene | 0.0145 | J | 0.00889 | 0.0457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0143 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0148 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2-Chlorophenol | U | | 0.0151 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0133 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0119 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.104 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.107 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2-Nitrophenol | U | | 0.0163 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 4-Nitrophenol | U | | 0.0143 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Pentachlorophenol | U | | 0.0123 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| Phenol | U | | 0.0184 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0147 | 0.457 | 1 | 05/30/2024 20:11 | WG2295242 |
| *(S) 2-Fluorophenol* | *52.8* | | | *12.0-120* | | *05/30/2024 20:11* | WG2295242 |
| *(S) Phenol-d5* | *38.8* | | | *10.0-120* | | *05/30/2024 20:11* | WG2295242 |
| *(S) Nitrobenzene-d5* | *46.0* | | | *10.0-122* | | *05/30/2024 20:11* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *51.8* | | | *15.0-120* | | *05/30/2024 20:11* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *46.3* | | | *10.0-127* | | *05/30/2024 20:11* | WG2295242 |
| *(S) p-Terphenyl-d14* | *55.8* | | | *10.0-120* | | *05/30/2024 20:11* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.1 | | 1 | 06/04/2024 14:49 | WG2298380 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0538 | 0.0736 | 1 | 06/04/2024 18:37 | WG2298400 |
| Acrylonitrile | U | | 0.00532 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| Benzene | U | | 0.000688 | 0.00147 | 1 | 06/04/2024 18:37 | WG2298400 |
| Bromobenzene | U | | 0.00133 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| Bromodichloromethane | U | | 0.00107 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Bromoform | U | | 0.00172 | 0.0368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Bromomethane | U | | 0.00290 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| n-Butylbenzene | U | | 0.00773 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| sec-Butylbenzene | U | | 0.00424 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| tert-Butylbenzene | U | | 0.00287 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| Carbon tetrachloride | U | | 0.00132 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| Chlorobenzene | U | | 0.000309 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Chlorodibromomethane | U | | 0.000901 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Chloroethane | U | | 0.00250 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| Chloroform | U | | 0.00152 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Chloromethane | U | | 0.00641 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| 2-Chlorotoluene | U | | 0.00127 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 4-Chlorotoluene | U | | 0.000663 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00574 | 0.0368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2-Dibromoethane | U | | 0.000954 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Dibromomethane | U | | 0.00110 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2-Dichlorobenzene | U | | 0.000626 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,3-Dichlorobenzene | U | | 0.000884 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,4-Dichlorobenzene | U | | 0.00103 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| Dichlorodifluoromethane | U | | 0.00237 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,1-Dichloroethane | U | | 0.000723 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2-Dichloroethane | U | | 0.000956 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,1-Dichloroethene | U | | 0.000892 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| cis-1,2-Dichloroethene | U | | 0.00108 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| trans-1,2-Dichloroethene | U | | 0.00153 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2-Dichloropropane | U | | 0.00209 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,1-Dichloropropene | U | | 0.00119 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,3-Dichloropropane | U | | 0.000738 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| cis-1,3-Dichloropropene | U | | 0.00111 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| trans-1,3-Dichloropropene | U | | 0.00168 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 2,2-Dichloropropane | U | | 0.00203 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Di-isopropyl ether | U | | 0.000604 | 0.00147 | 1 | 06/04/2024 18:37 | WG2298400 |
| Ethylbenzene | U | | 0.00109 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Hexachloro-1,3-butadiene | U | | 0.00884 | 0.0368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Isopropylbenzene | U | | 0.000626 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| p-Isopropyltoluene | U | | 0.00376 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 2-Butanone (MEK) | U | | 0.0935 | 0.147 | 1 | 06/04/2024 18:37 | WG2298400 |
| Methylene Chloride | U | | 0.00978 | 0.0368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00336 | 0.0368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Methyl tert-butyl ether | U | | 0.000515 | 0.00147 | 1 | 06/04/2024 18:37 | WG2298400 |
| Naphthalene | U | | 0.00719 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| n-Propylbenzene | U | | 0.00140 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| Styrene | U | | 0.000337 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00140 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00102 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00111 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Tetrachloroethene | U | | 0.00132 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Toluene | U | | 0.00191 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2,3-Trichlorobenzene | U | | 0.0108 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2,4-Trichlorobenzene | U | | 0.00648 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,1,1-Trichloroethane | U | | 0.00136 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,1,2-Trichloroethane | U | | 0.000879 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Trichloroethene | U | | 0.000860 | 0.00147 | 1 | 06/04/2024 18:37 | WG2298400 |
| Trichlorofluoromethane | U | | 0.00122 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2,3-Trichloropropane | U | | 0.00239 | 0.0184 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2,4-Trimethylbenzene | U | | 0.00233 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,2,3-Trimethylbenzene | U | | 0.00233 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| 1,3,5-Trimethylbenzene | U | | 0.00295 | 0.00736 | 1 | 06/04/2024 18:37 | WG2298400 |
| Vinyl chloride | U | | 0.00171 | 0.00368 | 1 | 06/04/2024 18:37 | WG2298400 |
| Xylenes, Total | 0.00440 | J | 0.00130 | 0.00957 | 1 | 06/04/2024 18:37 | WG2298400 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/04/2024 18:37* | WG2298400 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/04/2024 18:37* | WG2298400 |
| *(S) 1,2-Dichloroethane-d4* | *90.3* | | | *70.0-130* | | *06/04/2024 18:37* | WG2298400 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.1 | | 1 | 05/30/2024 07:13 | WG2294978 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0564 | 0.0772 | 1 | 06/04/2024 18:56 | WG2298400 |
| Acrylonitrile | U | | 0.00557 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| Benzene | U | | 0.000721 | 0.00154 | 1 | 06/04/2024 18:56 | WG2298400 |
| Bromobenzene | U | | 0.00139 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| Bromodichloromethane | U | | 0.00112 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Bromoform | U | | 0.00181 | 0.0386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Bromomethane | U | | 0.00304 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| n-Butylbenzene | U | | 0.00811 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| sec-Butylbenzene | U | | 0.00445 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| tert-Butylbenzene | U | | 0.00301 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| Carbon tetrachloride | U | | 0.00139 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| Chlorobenzene | U | | 0.000324 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Chlorodibromomethane | U | | 0.000945 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Chloroethane | U | | 0.00262 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| Chloroform | U | | 0.00159 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Chloromethane | U | | 0.00672 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| 2-Chlorotoluene | U | | 0.00134 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 4-Chlorotoluene | U | | 0.000695 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00602 | 0.0386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2-Dibromoethane | U | | 0.00100 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Dibromomethane | U | | 0.00116 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2-Dichlorobenzene | U | | 0.000656 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,3-Dichlorobenzene | U | | 0.000926 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,4-Dichlorobenzene | U | | 0.00108 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| Dichlorodifluoromethane | U | | 0.00249 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,1-Dichloroethane | U | | 0.000758 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2-Dichloroethane | U | | 0.00100 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,1-Dichloroethene | U | | 0.000936 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| cis-1,2-Dichloroethene | U | | 0.00113 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| trans-1,2-Dichloroethene | U | | 0.00161 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2-Dichloropropane | U | | 0.00219 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,1-Dichloropropene | U | | 0.00125 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,3-Dichloropropane | U | | 0.000774 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| cis-1,3-Dichloropropene | U | | 0.00117 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| trans-1,3-Dichloropropene | U | | 0.00176 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 2,2-Dichloropropane | U | | 0.00213 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Di-isopropyl ether | U | | 0.000633 | 0.00154 | 1 | 06/04/2024 18:56 | WG2298400 |
| Ethylbenzene | U | | 0.00114 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Hexachloro-1,3-butadiene | U | | 0.00926 | 0.0386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Isopropylbenzene | U | | 0.000656 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| p-Isopropyltoluene | U | | 0.00394 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 2-Butanone (MEK) | U | | 0.0980 | 0.154 | 1 | 06/04/2024 18:56 | WG2298400 |
| Methylene Chloride | U | | 0.0103 | 0.0386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00352 | 0.0386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Methyl tert-butyl ether | U | | 0.000540 | 0.00154 | 1 | 06/04/2024 18:56 | WG2298400 |
| Naphthalene | U | | 0.00753 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| n-Propylbenzene | U | | 0.00147 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| Styrene | U | | 0.000354 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00146 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00107 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00116 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Tetrachloroethene | U | | 0.00138 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Toluene | U | | 0.00201 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2,3-Trichlorobenzene | U | | 0.0113 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2,4-Trichlorobenzene | U | | 0.00679 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,1,1-Trichloroethane | U | | 0.00143 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,1,2-Trichloroethane | U | | 0.000922 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Trichloroethene | U | | 0.000902 | 0.00154 | 1 | 06/04/2024 18:56 | WG2298400 |
| Trichlorofluoromethane | U | | 0.00128 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2,3-Trichloropropane | U | | 0.00250 | 0.0193 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2,4-Trimethylbenzene | U | | 0.00244 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,2,3-Trimethylbenzene | U | | 0.00244 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| 1,3,5-Trimethylbenzene | U | | 0.00309 | 0.00772 | 1 | 06/04/2024 18:56 | WG2298400 |
| Vinyl chloride | U | | 0.00179 | 0.00386 | 1 | 06/04/2024 18:56 | WG2298400 |
| Xylenes, Total | 0.00318 | J | 0.00136 | 0.0100 | 1 | 06/04/2024 18:56 | WG2298400 |
| *(S) Toluene-d8* | *99.4* | | | *75.0-131* | | *06/04/2024 18:56* | WG2298400 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/04/2024 18:56* | WG2298400 |
| *(S) 1,2-Dichloroethane-d4* | *93.4* | | | *70.0-130* | | *06/04/2024 18:56* | WG2298400 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00656 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Acenaphthylene | U | | 0.00571 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Anthracene | U | | 0.00722 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Benzidine | U | | 0.0762 | 2.03 | 1 | 05/30/2024 17:26 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00715 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.00756 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00721 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00742 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Benzo(a)pyrene | U | | 0.00754 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0122 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0134 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0175 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0142 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00712 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0141 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Chrysene | U | | 0.00806 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0112 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0120 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0123 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0121 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0150 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0116 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0133 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Fluoranthene | U | | 0.00732 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Fluorene | U | | 0.00660 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Hexachlorobenzene | U | | 0.0144 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0136 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0213 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Hexachloroethane | U | | 0.0160 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0115 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Isophorone | U | | 0.0124 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Naphthalene | U | | 0.0102 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Nitrobenzene | U | | 0.0141 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0602 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | U | | 0.0307 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0135 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Phenanthrene | U | | 0.00805 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0127 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0514 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0139 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Diethyl phthalate | U | | 0.0134 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Dimethyl phthalate | U | | 0.0860 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0274 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Pyrene | U | | 0.00789 | 0.0406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0127 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0132 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2-Chlorophenol | U | | 0.0134 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0118 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0106 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0920 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0949 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2-Nitrophenol | U | | 0.0145 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 4-Nitrophenol | U | | 0.0127 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Pentachlorophenol | U | | 0.0109 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| Phenol | U | | 0.0163 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0130 | 0.406 | 1 | 05/30/2024 17:26 | WG2295242 |
| *(S) 2-Fluorophenol* | *61.1* | | | *12.0-120* | | *05/30/2024 17:26* | WG2295242 |
| *(S) Phenol-d5* | *53.8* | | | *10.0-120* | | *05/30/2024 17:26* | WG2295242 |
| *(S) Nitrobenzene-d5* | *45.7* | | | *10.0-122* | | *05/30/2024 17:26* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *51.1* | | | *15.0-120* | | *05/30/2024 17:26* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *42.4* | | | *10.0-127* | | *05/30/2024 17:26* | WG2295242 |
| *(S) p-Terphenyl-d14* | *61.6* | | | *10.0-120* | | *05/30/2024 17:26* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 92.9 | | 1 | 05/30/2024 07:13 | WG2294978 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.108 | | 0.0194 | 0.0430 | 1 | 05/30/2024 15:05 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 5.88 | | 0.585 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| Arsenic | 6.29 | | 0.557 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| Barium | 50.9 | | 0.0917 | 0.538 | 1 | 05/31/2024 20:21 | WG2295058 |
| Beryllium | 0.181 | J | 0.0339 | 0.215 | 1 | 05/31/2024 20:21 | WG2295058 |
| Cadmium | 6.02 | | 0.0507 | 0.538 | 1 | 05/31/2024 20:21 | WG2295058 |
| Chromium | 19.9 | | 0.143 | 1.08 | 1 | 05/31/2024 20:21 | WG2295058 |
| Cobalt | 5.67 | | 0.0873 | 1.08 | 1 | 05/31/2024 20:21 | WG2295058 |
| Copper | 13600 | | 2.15 | 10.8 | 5 | 06/01/2024 13:17 | WG2295058 |
| Lead | 826 | | 0.224 | 0.538 | 1 | 05/31/2024 20:21 | WG2295058 |
| Molybdenum | 4.36 | | 0.117 | 0.538 | 1 | 05/31/2024 20:21 | WG2295058 |
| Nickel | 98.1 | | 0.142 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| Selenium | U | | 0.822 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| Silver | U | | 0.137 | 1.08 | 1 | 05/31/2024 20:21 | WG2295058 |
| Thallium | U | | 2.12 | 10.8 | 5 | 06/01/2024 13:17 | WG2295058 |
| Vanadium | 17.0 | | 0.544 | 2.15 | 1 | 05/31/2024 20:21 | WG2295058 |
| Zinc | 9370 | | 4.48 | 26.9 | 5 | 06/01/2024 13:17 | WG2295058 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0127 | 0.0366 | 1 | 05/30/2024 15:29 | WG2295241 |
| PCB 1221 | U | | 0.0127 | 0.0366 | 1 | 05/30/2024 15:29 | WG2295241 |
| PCB 1232 | U | | 0.0127 | 0.0366 | 1 | 05/30/2024 15:29 | WG2295241 |
| PCB 1242 | U | | 0.0127 | 0.0366 | 1 | 05/30/2024 15:29 | WG2295241 |
| PCB 1248 | U | | 0.00794 | 0.0183 | 1 | 05/30/2024 15:29 | WG2295241 |
| PCB 1254 | U | | 0.00794 | 0.0183 | 1 | 05/30/2024 15:29 | WG2295241 |
| PCB 1260 | U | | 0.00794 | 0.0183 | 1 | 05/30/2024 15:29 | WG2295241 |
| *(S) Decachlorobiphenyl* | *64.8* | | | *10.0-135* | | *05/30/2024 15:29* | WG2295241 |
| *(S) Tetrachloro-m-xylene* | *70.0* | | | *10.0-139* | | *05/30/2024 15:29* | WG2295241 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00580 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Acenaphthylene | U | | 0.00505 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Anthracene | U | | 0.00638 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Benzidine | U | | 0.0674 | 1.80 | 1 | 05/30/2024 19:30 | WG2295242 |
| Benzo(a)anthracene | 0.0155 | J | 0.00632 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Benzo(b)fluoranthene | 0.0252 | J | 0.00668 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Benzo(k)fluoranthene | 0.00842 | J | 0.00637 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Benzo(g,h,i)perylene | 0.0167 | J | 0.00655 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Benzo(a)pyrene | 0.0195 | J | 0.00666 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0108 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0118 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0155 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0126 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00629 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0125 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Chrysene | 0.0240 | J | 0.00712 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.00993 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0106 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0109 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0107 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0132 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0103 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0117 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Fluoranthene | 0.0243 | J | 0.00647 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Fluorene | U | | 0.00583 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Hexachlorobenzene | U | | 0.0127 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0121 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0188 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Hexachloroethane | U | | 0.0141 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | 0.0134 | J | 0.0101 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Isophorone | U | | 0.0110 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Naphthalene | 0.0123 | J | 0.00899 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Nitrobenzene | U | | 0.0125 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0532 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0271 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0119 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Phenanthrene | 0.0240 | J | 0.00711 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0112 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0454 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0123 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Diethyl phthalate | U | | 0.0118 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Dimethyl phthalate | U | | 0.0760 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0242 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Pyrene | 0.0268 | J | 0.00697 | 0.0358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0112 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0116 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2-Chlorophenol | U | | 0.0118 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0104 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.00936 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0812 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0838 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2-Nitrophenol | U | | 0.0128 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 4-Nitrophenol | 0.0146 | J | 0.0112 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Pentachlorophenol | U | | 0.00964 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| Phenol | 0.0169 | J | 0.0144 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0115 | 0.358 | 1 | 05/30/2024 19:30 | WG2295242 |
| *(S) 2-Fluorophenol* | *50.2* | | | *12.0-120* | | *05/30/2024 19:30* | WG2295242 |
| *(S) Phenol-d5* | *46.0* | | | *10.0-120* | | *05/30/2024 19:30* | WG2295242 |
| *(S) Nitrobenzene-d5* | *39.6* | | | *10.0-122* | | *05/30/2024 19:30* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *44.2* | | | *15.0-120* | | *05/30/2024 19:30* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *38.7* | | | *10.0-127* | | *05/30/2024 19:30* | WG2295242 |
| *(S) p-Terphenyl-d14* | *50.9* | | | *10.0-120* | | *05/30/2024 19:30* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.8 | | 1 | 05/30/2024 07:13 | WG2294978 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.182 | | 0.0196 | 0.0436 | 1 | 05/30/2024 15:08 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 7.24 | | 0.592 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| Arsenic | 6.63 | | 0.564 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| Barium | 77.9 | | 0.0928 | 0.544 | 1 | 05/31/2024 20:22 | WG2295058 |
| Beryllium | 0.144 | J | 0.0343 | 0.218 | 1 | 05/31/2024 20:22 | WG2295058 |
| Cadmium | 4.51 | | 0.0513 | 0.544 | 1 | 05/31/2024 20:22 | WG2295058 |
| Chromium | 26.2 | | 0.145 | 1.09 | 1 | 05/31/2024 20:22 | WG2295058 |
| Cobalt | 6.12 | | 0.0883 | 1.09 | 1 | 05/31/2024 20:22 | WG2295058 |
| Copper | 15300 | | 2.18 | 10.9 | 5 | 06/01/2024 13:20 | WG2295058 |
| Lead | 1010 | | 0.226 | 0.544 | 1 | 05/31/2024 20:22 | WG2295058 |
| Molybdenum | 5.34 | | 0.119 | 0.544 | 1 | 05/31/2024 20:22 | WG2295058 |
| Nickel | 124 | | 0.144 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| Selenium | U | | 0.832 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| Silver | U | | 0.138 | 1.09 | 1 | 05/31/2024 20:22 | WG2295058 |
| Thallium | U | | 2.15 | 10.9 | 5 | 06/01/2024 13:20 | WG2295058 |
| Vanadium | 22.2 | | 0.551 | 2.18 | 1 | 05/31/2024 20:22 | WG2295058 |
| Zinc | 4250 | | 4.53 | 27.2 | 5 | 06/01/2024 13:20 | WG2295058 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0430 | 0.0589 | 1 | 05/29/2024 23:16 | WG2295165 |
| Acrylonitrile | U | | 0.00425 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| Benzene | U | | 0.000550 | 0.00118 | 1 | 05/29/2024 23:16 | WG2295165 |
| Bromobenzene | U | | 0.00106 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| Bromodichloromethane | U | | 0.000855 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Bromoform | U | | 0.00138 | 0.0295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Bromomethane | U | | 0.00232 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| n-Butylbenzene | U | | 0.00619 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| sec-Butylbenzene | U | | 0.00339 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| tert-Butylbenzene | U | | 0.00230 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| Carbon tetrachloride | U | | 0.00106 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| Chlorobenzene | U | | 0.000248 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Chlorodibromomethane | U | | 0.000721 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Chloroethane | U | | 0.00200 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| Chloroform | U | | 0.00121 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Chloromethane | U | | 0.00513 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00102 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000530 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00460 | 0.0295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000764 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Dibromomethane | U | | 0.000884 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000501 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000707 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.000825 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00190 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000579 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000765 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000714 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.000865 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00123 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00167 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.000954 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000591 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.000892 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00134 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00163 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Di-isopropyl ether | U | | 0.000483 | 0.00118 | 1 | 05/29/2024 23:16 | WG2295165 |
| Ethylbenzene | U | | 0.000869 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00707 | 0.0295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Isopropylbenzene | U | | 0.000501 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00301 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0748 | 0.118 | 1 | 05/29/2024 23:16 | WG2295165 |
| Methylene Chloride | U | | 0.00783 | 0.0295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00269 | 0.0295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000413 | 0.00118 | 1 | 05/29/2024 23:16 | WG2295165 |
| Naphthalene | 0.0100 | J | 0.00575 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| n-Propylbenzene | U | | 0.00112 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| Styrene | U | | 0.000270 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00112 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000819 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000889 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Tetrachloroethene | U | | 0.00106 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Toluene | 0.00242 | J | 0.00153 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.00864 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00519 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00109 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000704 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Trichloroethene | U | | 0.000688 | 0.00118 | 1 | 05/29/2024 23:16 | WG2295165 |
| Trichlorofluoromethane | U | | 0.000975 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00191 | 0.0147 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00186 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00186 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00236 | 0.00589 | 1 | 05/29/2024 23:16 | WG2295165 |
| Vinyl chloride | U | | 0.00137 | 0.00295 | 1 | 05/29/2024 23:16 | WG2295165 |
| Xylenes, Total | U | | 0.00104 | 0.00766 | 1 | 05/29/2024 23:16 | WG2295165 |
| *(S) Toluene-d8* | *111* | | | *75.0-131* | | *05/29/2024 23:16* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *67.0-138* | | *05/29/2024 23:16* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *86.9* | | | *70.0-130* | | *05/29/2024 23:16* | WG2295165 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0128 | 0.0370 | 1 | 05/30/2024 15:38 | WG2295241 |
| PCB 1221 | U | | 0.0128 | 0.0370 | 1 | 05/30/2024 15:38 | WG2295241 |
| PCB 1232 | U | | 0.0128 | 0.0370 | 1 | 05/30/2024 15:38 | WG2295241 |
| PCB 1242 | U | | 0.0128 | 0.0370 | 1 | 05/30/2024 15:38 | WG2295241 |
| PCB 1248 | U | | 0.00804 | 0.0185 | 1 | 05/30/2024 15:38 | WG2295241 |
| PCB 1254 | U | | 0.00804 | 0.0185 | 1 | 05/30/2024 15:38 | WG2295241 |
| PCB 1260 | U | | 0.00804 | 0.0185 | 1 | 05/30/2024 15:38 | WG2295241 |
| *(S) Decachlorobiphenyl* | *78.3* | | | *10.0-135* | | *05/30/2024 15:38* | WG2295241 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *83.4* | | | *10.0-139* | | *05/30/2024 15:38* | WG2295241 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00587 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Acenaphthylene | U | | 0.00511 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Anthracene | U | | 0.00646 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Benzidine | U | | 0.0682 | 1.82 | 1 | 05/30/2024 18:48 | WG2295242 |
| Benzo(a)anthracene | 0.0112 | J | 0.00639 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Benzo(b)fluoranthene | 0.0281 | J | 0.00676 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Benzo(k)fluoranthene | 0.00889 | J | 0.00645 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Benzo(g,h,i)perylene | 0.0101 | J | 0.00663 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Benzo(a)pyrene | 0.0143 | J | 0.00674 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0109 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0120 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0157 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0127 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00637 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0126 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Chrysene | 0.0172 | J | 0.00721 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0101 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0107 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0110 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0108 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0134 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0104 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0119 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Fluoranthene | 0.0253 | J | 0.00654 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Fluorene | U | | 0.00590 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Hexachlorobenzene | U | | 0.0128 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0122 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0191 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Hexachloroethane | U | | 0.0143 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0102 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Isophorone | U | | 0.0111 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Naphthalene | 0.0100 | J | 0.00910 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Nitrobenzene | U | | 0.0126 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0538 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0274 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0121 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Phenanthrene | 0.0279 | J | 0.00720 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0113 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0460 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0124 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Diethyl phthalate | U | | 0.0120 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Dimethyl phthalate | U | | 0.0769 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0245 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Pyrene | 0.0177 | J | 0.00706 | 0.0363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0113 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0118 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2-Chlorophenol | U | | 0.0120 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0106 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.00947 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0822 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0848 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0130 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 4-Nitrophenol | U | | 0.0113 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Pentachlorophenol | 0.0195 | J | 0.00976 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| Phenol | U | | 0.0146 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0117 | 0.363 | 1 | 05/30/2024 18:48 | WG2295242 |
| *(S) 2-Fluorophenol* | *58.2* | | | *12.0-120* | | *05/30/2024 18:48* | WG2295242 |
| *(S) Phenol-d5* | *51.9* | | | *10.0-120* | | *05/30/2024 18:48* | WG2295242 |
| *(S) Nitrobenzene-d5* | *46.2* | | | *10.0-122* | | *05/30/2024 18:48* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *51.6* | | | *15.0-120* | | *05/30/2024 18:48* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *46.4* | | | *10.0-127* | | *05/30/2024 18:48* | WG2295242 |
| *(S) p-Terphenyl-d14* | *57.9* | | | *10.0-120* | | *05/30/2024 18:48* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.0 | | 1 | 05/30/2024 07:13 | WG2294978 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.220 | | 0.0196 | 0.0435 | 1 | 05/30/2024 15:10 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 7.50 | | 0.591 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| Arsenic | 9.54 | | 0.563 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| Barium | 45.2 | | 0.0926 | 0.544 | 1 | 05/31/2024 20:24 | WG2295058 |
| Beryllium | 0.121 | J | 0.0342 | 0.217 | 1 | 05/31/2024 20:24 | WG2295058 |
| Cadmium | 5.21 | | 0.0512 | 0.544 | 1 | 05/31/2024 20:24 | WG2295058 |
| Chromium | 33.6 | | 0.145 | 1.09 | 1 | 05/31/2024 20:24 | WG2295058 |
| Cobalt | 15.5 | | 0.0882 | 1.09 | 1 | 05/31/2024 20:24 | WG2295058 |
| Copper | 28200 | | 4.35 | 21.7 | 10 | 06/01/2024 13:24 | WG2295058 |
| Lead | 1830 | | 0.226 | 0.544 | 1 | 05/31/2024 20:24 | WG2295058 |
| Molybdenum | 6.16 | | 0.119 | 0.544 | 1 | 05/31/2024 20:24 | WG2295058 |
| Nickel | 174 | | 0.144 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| Selenium | U | | 0.831 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| Silver | U | | 0.138 | 1.09 | 1 | 05/31/2024 20:24 | WG2295058 |
| Thallium | U | | 4.28 | 21.7 | 10 | 06/01/2024 13:24 | WG2295058 |
| Vanadium | 39.5 | | 0.550 | 2.17 | 1 | 05/31/2024 20:24 | WG2295058 |
| Zinc | 28600 | | 18.0 | 109 | 20 | 06/01/2024 15:54 | WG2295058 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 3.33 | B J | 1.45 | 4.38 | 38.3 | 05/29/2024 17:04 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *05/29/2024 17:04* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0435 | 0.0596 | 1 | 05/29/2024 23:35 | WG2295165 |
| Acrylonitrile | U | | 0.00431 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| Benzene | U | | 0.000557 | 0.00119 | 1 | 05/29/2024 23:35 | WG2295165 |
| Bromobenzene | U | | 0.00107 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| Bromodichloromethane | U | | 0.000865 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Bromoform | U | | 0.00140 | 0.0298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Bromomethane | U | | 0.00235 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| n-Butylbenzene | U | | 0.00626 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| sec-Butylbenzene | U | | 0.00344 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| tert-Butylbenzene | U | | 0.00233 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| Carbon tetrachloride | U | | 0.00107 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| Chlorobenzene | U | | 0.000250 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Chlorodibromomethane | U | | 0.000730 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Chloroethane | U | | 0.00203 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| Chloroform | U | | 0.00123 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Chloromethane | U | | 0.00519 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00103 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000537 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00465 | 0.0298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000773 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Dibromomethane | U | | 0.000895 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000507 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000716 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.000835 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00192 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000586 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000774 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000723 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.000875 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00124 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00169 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.000965 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000598 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.000903 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00136 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00165 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Di-isopropyl ether | U | | 0.000489 | 0.00119 | 1 | 05/29/2024 23:35 | WG2295165 |
| Ethylbenzene | U | | 0.000879 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00716 | 0.0298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Isopropylbenzene | U | | 0.000507 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00304 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0757 | 0.119 | 1 | 05/29/2024 23:35 | WG2295165 |
| Methylene Chloride | U | | 0.00792 | 0.0298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00272 | 0.0298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000417 | 0.00119 | 1 | 05/29/2024 23:35 | WG2295165 |
| Naphthalene | 0.0197 | | 0.00582 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| n-Propylbenzene | U | | 0.00113 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| Styrene | U | | 0.000273 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00113 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000829 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000899 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Tetrachloroethene | U | | 0.00107 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Toluene | 0.00483 | J | 0.00155 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.00874 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00525 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00110 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000712 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Trichloroethene | U | | 0.000697 | 0.00119 | 1 | 05/29/2024 23:35 | WG2295165 |
| Trichlorofluoromethane | U | | 0.000986 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00193 | 0.0149 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2,4-Trimethylbenzene | 0.00205 | J J4 | 0.00188 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00188 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00239 | 0.00596 | 1 | 05/29/2024 23:35 | WG2295165 |
| Vinyl chloride | U | | 0.00138 | 0.00298 | 1 | 05/29/2024 23:35 | WG2295165 |
| Xylenes, Total | 0.00371 | J | 0.00105 | 0.00775 | 1 | 05/29/2024 23:35 | WG2295165 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *05/29/2024 23:35* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *97.2* | | | *67.0-138* | | *05/29/2024 23:35* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *81.8* | | | *70.0-130* | | *05/29/2024 23:35* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 11.3 | | 0.797 | 4.35 | 1 | 05/30/2024 17:44 | WG2295238 |
| C22-C32 Hydrocarbons | 45.2 | | 1.45 | 4.35 | 1 | 05/30/2024 17:44 | WG2295238 |
| C32-C40 Hydrocarbons | 23.7 | | 1.45 | 4.35 | 1 | 05/30/2024 17:44 | WG2295238 |
| *(S) o-Terphenyl* | *48.2* | | | *18.0-148* | | *05/30/2024 17:44* | WG2295238 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00586 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Acenaphthylene | U | | 0.00510 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Anthracene | U | | 0.00645 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Benzidine | U | | 0.0681 | 1.82 | 1 | 05/30/2024 19:09 | WG2295242 |
| Benzo(a)anthracene | 0.00683 | J | 0.00638 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Benzo(b)fluoranthene | 0.0120 | J | 0.00675 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00644 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00662 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Benzo(a)pyrene | 0.00712 | J | 0.00673 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0109 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0120 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0157 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0127 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00636 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0126 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Chrysene | 0.0102 | J | 0.00720 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0100 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0107 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0110 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0108 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0134 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0104 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0119 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Fluoranthene | 0.0137 | J | 0.00653 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Fluorene | U | | 0.00589 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Hexachlorobenzene | U | | 0.0128 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0122 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0190 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Hexachloroethane | U | | 0.0142 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0102 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Isophorone | U | | 0.0111 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Naphthalene | 0.0146 | J | 0.00909 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Nitrobenzene | U | | 0.0126 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0537 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0274 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0121 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Phenanthrene | 0.0189 | J | 0.00719 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0113 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0459 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0124 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Diethyl phthalate | U | | 0.0120 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Dimethyl phthalate | U | | 0.0768 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0245 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Pyrene | 0.0177 | J | 0.00705 | 0.0362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0113 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0117 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2-Chlorophenol | U | | 0.0120 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0105 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.00946 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0821 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0847 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2-Nitrophenol | U | | 0.0129 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 4-Nitrophenol | U | | 0.0113 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Pentachlorophenol | 0.0309 | J | 0.00974 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| Phenol | 0.0167 | J | 0.0146 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0116 | 0.362 | 1 | 05/30/2024 19:09 | WG2295242 |
| *(S) 2-Fluorophenol* | *53.8* | | | *12.0-120* | | *05/30/2024 19:09* | WG2295242 |
| *(S) Phenol-d5* | *47.7* | | | *10.0-120* | | *05/30/2024 19:09* | WG2295242 |
| *(S) Nitrobenzene-d5* | *41.6* | | | *10.0-122* | | *05/30/2024 19:09* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *45.9* | | | *15.0-120* | | *05/30/2024 19:09* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *42.9* | | | *10.0-127* | | *05/30/2024 19:09* | WG2295242 |
| *(S) p-Terphenyl-d14* | *52.3* | | | *10.0-120* | | *05/30/2024 19:09* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.7 | | 1 | 06/26/2024 13:44 | WG2311827 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Copper | 3730 | | 0.472 | 2.36 | 1 | 06/27/2024 20:14 | WG2313442 |
| Lead | 406 | | 0.246 | 0.590 | 1 | 06/27/2024 20:14 | WG2313442 |
| Nickel | 66.0 | | 0.156 | 2.36 | 1 | 06/27/2024 20:14 | WG2313442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.0 | | 1 | 05/30/2024 07:13 | WG2294978 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0555 | 0.0761 | 1 | 06/04/2024 19:15 | WG2298400 |
| Acrylonitrile | U | | 0.00549 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| Benzene | U | | 0.000710 | 0.00152 | 1 | 06/04/2024 19:15 | WG2298400 |
| Bromobenzene | U | | 0.00137 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| Bromodichloromethane | U | | 0.00110 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Bromoform | U | | 0.00178 | 0.0380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Bromomethane | U | | 0.00300 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| n-Butylbenzene | U | | 0.00799 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| sec-Butylbenzene | U | | 0.00438 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| tert-Butylbenzene | U | | 0.00297 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| Carbon tetrachloride | U | | 0.00137 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| Chlorobenzene | U | | 0.000319 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Chlorodibromomethane | U | | 0.000931 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Chloroethane | U | | 0.00259 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| Chloroform | U | | 0.00157 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Chloromethane | U | | 0.00662 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 4-Chlorotoluene | U | | 0.000684 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00593 | 0.0380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2-Dibromoethane | U | | 0.000986 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Dibromomethane | U | | 0.00114 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2-Dichlorobenzene | U | | 0.000646 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,3-Dichlorobenzene | U | | 0.000913 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,4-Dichlorobenzene | U | | 0.00106 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| Dichlorodifluoromethane | U | | 0.00245 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,1-Dichloroethane | U | | 0.000747 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2-Dichloroethane | U | | 0.000987 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,1-Dichloroethene | U | | 0.000922 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| trans-1,2-Dichloroethene | U | | 0.00158 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2-Dichloropropane | U | | 0.00216 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,1-Dichloropropene | U | | 0.00123 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,3-Dichloropropane | U | | 0.000762 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| cis-1,3-Dichloropropene | U | | 0.00115 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| trans-1,3-Dichloropropene | U | | 0.00173 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 2,2-Dichloropropane | U | | 0.00210 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Di-isopropyl ether | U | | 0.000624 | 0.00152 | 1 | 06/04/2024 19:15 | WG2298400 |
| Ethylbenzene | U | | 0.00112 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Hexachloro-1,3-butadiene | U | | 0.00913 | 0.0380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Isopropylbenzene | U | | 0.000646 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| p-Isopropyltoluene | U | | 0.00388 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 2-Butanone (MEK) | U | | 0.0966 | 0.152 | 1 | 06/04/2024 19:15 | WG2298400 |
| Methylene Chloride | U | | 0.0101 | 0.0380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00347 | 0.0380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Methyl tert-butyl ether | U | | 0.000532 | 0.00152 | 1 | 06/04/2024 19:15 | WG2298400 |
| Naphthalene | U | | 0.00742 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| n-Propylbenzene | U | | 0.00145 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| Styrene | U | | 0.000348 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00144 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Tetrachloroethene | U | | 0.00136 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Toluene | U | | 0.00198 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2,3-Trichlorobenzene | U | | 0.0111 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2,4-Trichlorobenzene | U | | 0.00669 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,1,1-Trichloroethane | U | | 0.00140 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,1,2-Trichloroethane | U | | 0.000908 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Trichloroethene | U | | 0.000888 | 0.00152 | 1 | 06/04/2024 19:15 | WG2298400 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2,3-Trichloropropane | U | | 0.00246 | 0.0190 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2,4-Trimethylbenzene | U | | 0.00240 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,2,3-Trimethylbenzene | U | | 0.00240 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| 1,3,5-Trimethylbenzene | U | | 0.00304 | 0.00761 | 1 | 06/04/2024 19:15 | WG2298400 |
| Vinyl chloride | U | | 0.00176 | 0.00380 | 1 | 06/04/2024 19:15 | WG2298400 |
| Xylenes, Total | 0.00432 | J | 0.00134 | 0.00989 | 1 | 06/04/2024 19:15 | WG2298400 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/04/2024 19:15* | WG2298400 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/04/2024 19:15* | WG2298400 |
| *(S) 1,2-Dichloroethane-d4* | *90.6* | | | *70.0-130* | | *06/04/2024 19:15* | WG2298400 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.70 | J | 0.905 | 4.94 | 1 | 05/30/2024 17:30 | WG2295238 |
| C22-C32 Hydrocarbons | 6.14 | | 1.64 | 4.94 | 1 | 05/30/2024 17:30 | WG2295238 |
| C32-C40 Hydrocarbons | 8.06 | | 1.64 | 4.94 | 1 | 05/30/2024 17:30 | WG2295238 |
| *(S) o-Terphenyl* | *28.5* | | | *18.0-148* | | *05/30/2024 17:30* | WG2295238 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00666 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Acenaphthylene | U | | 0.00579 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Anthracene | U | | 0.00732 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Benzidine | U | | 0.0773 | 2.06 | 1 | 05/30/2024 20:31 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00725 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.00767 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00731 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00752 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Benzo(a)pyrene | U | | 0.00764 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0123 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0136 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0178 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0144 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00722 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0143 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Chrysene | U | | 0.00817 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0114 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0122 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0125 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0122 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0152 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0118 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0135 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Fluoranthene | 0.0107 | J | 0.00742 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Fluorene | U | | 0.00669 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachlorobenzene | U | | 0.0146 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0138 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0216 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Hexachloroethane | U | | 0.0162 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0116 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Isophorone | U | | 0.0126 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Naphthalene | U | | 0.0103 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Nitrobenzene | U | | 0.0143 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0610 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0311 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0137 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Phenanthrene | 0.00896 | J | 0.00816 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0128 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0521 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0141 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Diethyl phthalate | U | | 0.0136 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Dimethyl phthalate | U | | 0.0872 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0278 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Pyrene | 0.00911 | J | 0.00800 | 0.0411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0128 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0133 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2-Chlorophenol | U | | 0.0136 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0120 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0107 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0932 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0962 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2-Nitrophenol | U | | 0.0147 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 4-Nitrophenol | U | | 0.0128 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Pentachlorophenol | U | | 0.0111 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| Phenol | U | | 0.0165 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0132 | 0.411 | 1 | 05/30/2024 20:31 | WG2295242 |
| *(S) 2-Fluorophenol* | *61.6* | | | *12.0-120* | | *05/30/2024 20:31* | WG2295242 |
| *(S) Phenol-d5* | *55.9* | | | *10.0-120* | | *05/30/2024 20:31* | WG2295242 |
| *(S) Nitrobenzene-d5* | *43.9* | | | *10.0-122* | | *05/30/2024 20:31* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *53.5* | | | *15.0-120* | | *05/30/2024 20:31* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *51.4* | | | *10.0-127* | | *05/30/2024 20:31* | WG2295242 |
| *(S) p-Terphenyl-d14* | *61.8* | | | *10.0-120* | | *05/30/2024 20:31* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.9 | | 1 | 05/30/2024 07:13 | WG2294978 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.133 | | 0.0217 | 0.0483 | 1 | 05/30/2024 15:13 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 0.796 | J | 0.656 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| Arsenic | 4.88 | | 0.625 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| Barium | 154 | | 0.103 | 0.603 | 1 | 05/31/2024 18:20 | WG2295058 |
| Beryllium | 0.339 | | 0.0380 | 0.241 | 1 | 05/31/2024 18:20 | WG2295058 |
| Cadmium | 0.409 | J | 0.0568 | 0.603 | 1 | 05/31/2024 18:20 | WG2295058 |
| Chromium | 36.1 | | 0.160 | 1.21 | 1 | 05/31/2024 18:20 | WG2295058 |
| Cobalt | 9.34 | | 0.0978 | 1.21 | 1 | 05/31/2024 18:20 | WG2295058 |
| Copper | 23.5 | | 0.483 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| Lead | 47.3 | | 0.251 | 0.603 | 1 | 05/31/2024 18:20 | WG2295058 |
| Molybdenum | 0.746 | | 0.131 | 0.603 | 1 | 05/31/2024 18:20 | WG2295058 |
| Nickel | 59.1 | | 0.159 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| Selenium | U | | 0.922 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| Silver | U | | 0.153 | 1.21 | 1 | 05/31/2024 18:20 | WG2295058 |
| Thallium | 0.956 | J | 0.475 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| Vanadium | 26.7 | | 0.610 | 2.41 | 1 | 05/31/2024 18:20 | WG2295058 |
| Zinc | 127 | | 1.00 | 6.03 | 1 | 05/31/2024 18:20 | WG2295058 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0142 | 0.0410 | 1 | 05/31/2024 02:19 | WG2295241 |
| PCB 1221 | U | | 0.0142 | 0.0410 | 1 | 05/31/2024 02:19 | WG2295241 |
| PCB 1232 | U | | 0.0142 | 0.0410 | 1 | 05/31/2024 02:19 | WG2295241 |
| PCB 1242 | U | | 0.0142 | 0.0410 | 1 | 05/31/2024 02:19 | WG2295241 |
| PCB 1248 | U | | 0.00890 | 0.0205 | 1 | 05/31/2024 02:19 | WG2295241 |
| PCB 1254 | U | | 0.00890 | 0.0205 | 1 | 05/31/2024 02:19 | WG2295241 |
| PCB 1260 | U | | 0.00890 | 0.0205 | 1 | 05/31/2024 02:19 | WG2295241 |
| *(S) Decachlorobiphenyl* | *46.0* | | | *10.0-135* | | *05/31/2024 02:19* | WG2295241 |
| *(S) Tetrachloro-m-xylene* | *55.5* | | | *10.0-139* | | *05/31/2024 02:19* | WG2295241 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.00650 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Acenaphthylene | U | | 0.00566 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Anthracene | U | | 0.00715 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Benzidine | U | | 0.0755 | 2.01 | 1 | 05/30/2024 22:14 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00708 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.00749 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00714 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00735 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Benzo(a)pyrene | U | | 0.00747 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0121 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0133 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0174 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0141 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00706 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0140 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Chrysene | U | | 0.00799 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0111 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0119 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0122 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0120 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0148 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0115 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0131 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Fluoranthene | U | | 0.00725 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Fluorene | U | | 0.00654 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Hexachlorobenzene | U | | 0.0142 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0135 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0211 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Hexachloroethane | U | | 0.0158 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0114 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Isophorone | U | | 0.0123 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Naphthalene | U | | 0.0101 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Nitrobenzene | U | | 0.0140 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0596 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0304 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0134 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Phenanthrene | U | | 0.00797 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0125 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0509 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0138 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Diethyl phthalate | U | | 0.0133 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Dimethyl phthalate | U | | 0.0852 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0271 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Pyrene | U | | 0.00782 | 0.0402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0125 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0130 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2-Chlorophenol | U | | 0.0133 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0117 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0105 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0911 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0940 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2-Nitrophenol | U | | 0.0144 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 4-Nitrophenol | U | | 0.0125 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Pentachlorophenol | U | | 0.0108 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| Phenol | U | | 0.0162 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0129 | 0.402 | 1 | 05/30/2024 22:14 | WG2295242 |
| *(S) 2-Fluorophenol* | *55.9* | | | *12.0-120* | | *05/30/2024 22:14* | WG2295242 |
| *(S) Phenol-d5* | *50.6* | | | *10.0-120* | | *05/30/2024 22:14* | WG2295242 |
| *(S) Nitrobenzene-d5* | *43.8* | | | *10.0-122* | | *05/30/2024 22:14* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *49.7* | | | *15.0-120* | | *05/30/2024 22:14* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *45.8* | | | *10.0-127* | | *05/30/2024 22:14* | WG2295242 |
| *(S) p-Terphenyl-d14* | *56.8* | | | *10.0-120* | | *05/30/2024 22:14* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 88.3 | | 1 | 05/29/2024 15:10 | WG2294985 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.163 | | 0.0204 | 0.0453 | 1 | 05/30/2024 15:15 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 0.797 | J | 0.616 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| Arsenic | 4.16 | | 0.587 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| Barium | 140 | J6 O1 | 0.0965 | 0.566 | 1 | 05/31/2024 20:09 | WG2295058 |
| Beryllium | 0.382 | | 0.0357 | 0.226 | 1 | 05/31/2024 20:09 | WG2295058 |
| Cadmium | U | | 0.0533 | 0.566 | 1 | 05/31/2024 20:09 | WG2295058 |
| Chromium | 58.2 | O1 | 0.151 | 1.13 | 1 | 05/31/2024 20:09 | WG2295058 |
| Cobalt | 16.9 | O1 | 0.0918 | 1.13 | 1 | 05/31/2024 20:09 | WG2295058 |
| Copper | 23.5 | O1 | 0.453 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| Lead | 10.7 | | 0.236 | 0.566 | 1 | 05/31/2024 20:09 | WG2295058 |
| Molybdenum | U | | 0.123 | 0.566 | 1 | 05/31/2024 20:09 | WG2295058 |
| Nickel | 114 | J6 O1 | 0.149 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| Selenium | U | | 0.865 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| Silver | 0.299 | J | 0.144 | 1.13 | 1 | 06/04/2024 20:20 | WG2298045 |
| Thallium | 2.08 | J | 0.446 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| Vanadium | 34.1 | O1 | 0.573 | 2.26 | 1 | 05/31/2024 20:09 | WG2295058 |
| Zinc | 40.6 | | 0.942 | 5.66 | 1 | 05/31/2024 20:09 | WG2295058 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0467 | 0.0640 | 1 | 05/29/2024 23:56 | WG2295165 |
| Acrylonitrile | U | | 0.00462 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| Benzene | U | | 0.000598 | 0.00128 | 1 | 05/29/2024 23:56 | WG2295165 |
| Bromobenzene | U | | 0.00115 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| Bromodichloromethane | U | | 0.000928 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Bromoform | U | | 0.00150 | 0.0320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Bromomethane | U | | 0.00252 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| n-Butylbenzene | U | | 0.00672 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| sec-Butylbenzene | U | | 0.00369 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| tert-Butylbenzene | U | | 0.00250 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| Carbon tetrachloride | U | | 0.00115 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| Chlorobenzene | U | | 0.000269 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Chlorodibromomethane | U | | 0.000783 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Chloroethane | U | | 0.00218 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| Chloroform | U | | 0.00132 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Chloromethane | U | | 0.00557 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00111 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000576 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00499 | 0.0320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000829 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Dibromomethane | U | | 0.000960 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000544 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000768 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.000896 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00206 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000628 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000831 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000775 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.000939 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00133 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00182 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00104 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000641 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.000969 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00146 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00177 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Di-isopropyl ether | U | | 0.000525 | 0.00128 | 1 | 05/29/2024 23:56 | WG2295165 |
| Ethylbenzene | U | | 0.000943 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00768 | 0.0320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Isopropylbenzene | U | | 0.000544 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00326 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0813 | 0.128 | 1 | 05/29/2024 23:56 | WG2295165 |
| Methylene Chloride | U | | 0.00850 | 0.0320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00292 | 0.0320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000448 | 0.00128 | 1 | 05/29/2024 23:56 | WG2295165 |
| Naphthalene | U | | 0.00624 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| n-Propylbenzene | U | | 0.00122 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| Styrene | U | | 0.000293 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00121 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000889 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000965 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Tetrachloroethene | U | | 0.00115 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Toluene | U | | 0.00166 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.00938 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00563 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00118 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000764 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Trichloroethene | 0.00210 | | 0.000747 | 0.00128 | 1 | 05/29/2024 23:56 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00106 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00207 | 0.0160 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00202 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00202 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00256 | 0.00640 | 1 | 05/29/2024 23:56 | WG2295165 |
| Vinyl chloride | U | | 0.00148 | 0.00320 | 1 | 05/29/2024 23:56 | WG2295165 |
| Xylenes, Total | U | | 0.00113 | 0.00832 | 1 | 05/29/2024 23:56 | WG2295165 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *05/29/2024 23:56* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *97.8* | | | *67.0-138* | | *05/29/2024 23:56* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *87.9* | | | *70.0-130* | | *05/29/2024 23:56* | WG2295165 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0134 | 0.0385 | 1 | 05/31/2024 02:11 | WG2295241 |
| PCB 1221 | U | | 0.0134 | 0.0385 | 1 | 05/31/2024 02:11 | WG2295241 |
| PCB 1232 | U | | 0.0134 | 0.0385 | 1 | 05/31/2024 02:11 | WG2295241 |
| PCB 1242 | U | | 0.0134 | 0.0385 | 1 | 05/31/2024 02:11 | WG2295241 |
| PCB 1248 | U | | 0.00836 | 0.0193 | 1 | 05/31/2024 02:11 | WG2295241 |
| PCB 1254 | U | | 0.00836 | 0.0193 | 1 | 05/31/2024 02:11 | WG2295241 |
| PCB 1260 | U | | 0.00836 | 0.0193 | 1 | 05/31/2024 02:11 | WG2295241 |
| *(S) Decachlorobiphenyl* | *60.0* | | | *10.0-135* | | *05/31/2024 02:11* | WG2295241 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *64.5* | | | *10.0-139* | | *05/31/2024 02:11* | WG2295241 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00610 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Acenaphthylene | U | | 0.00531 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Anthracene | U | | 0.00672 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Benzidine | U | | 0.0709 | 1.89 | 1 | 05/30/2024 18:28 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00665 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.00703 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00670 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00690 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Benzo(a)pyrene | U | | 0.00701 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0113 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0125 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0163 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0132 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00662 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0131 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Chrysene | U | | 0.00750 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0105 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0112 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0114 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0112 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0139 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0108 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0123 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Fluoranthene | U | | 0.00681 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Fluorene | U | | 0.00614 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Hexachlorobenzene | U | | 0.0134 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0127 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0198 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Hexachloroethane | U | | 0.0148 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0107 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Isophorone | U | | 0.0116 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Naphthalene | U | | 0.00947 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Nitrobenzene | U | | 0.0131 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0559 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0285 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0126 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Phenanthrene | U | | 0.00749 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0118 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0478 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0129 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Diethyl phthalate | U | | 0.0125 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Dimethyl phthalate | U | | 0.0799 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0255 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Pyrene | U | | 0.00734 | 0.0377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0118 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0122 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2-Chlorophenol | U | | 0.0125 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0110 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.00985 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0855 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0882 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0135 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 4-Nitrophenol | U | | 0.0118 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Pentachlorophenol | U | | 0.0101 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| Phenol | 0.0155 | J | 0.0152 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0121 | 0.377 | 1 | 05/30/2024 18:28 | WG2295242 |
| *(S) 2-Fluorophenol* | *57.9* | | | *12.0-120* | | *05/30/2024 18:28* | WG2295242 |
| *(S) Phenol-d5* | *52.1* | | | *10.0-120* | | *05/30/2024 18:28* | WG2295242 |
| *(S) Nitrobenzene-d5* | *46.1* | | | *10.0-122* | | *05/30/2024 18:28* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *50.2* | | | *15.0-120* | | *05/30/2024 18:28* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *47.8* | | | *10.0-127* | | *05/30/2024 18:28* | WG2295242 |
| *(S) p-Terphenyl-d14* | *62.8* | | | *10.0-120* | | *05/30/2024 18:28* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.5 | | 1 | 05/29/2024 15:10 | WG2294985 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.123 | | 0.0227 | 0.0503 | 1 | 05/30/2024 15:18 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.685 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| Arsenic | 2.88 | | 0.652 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| Barium | 106 | | 0.107 | 0.629 | 1 | 05/31/2024 18:21 | WG2295058 |
| Beryllium | 0.265 | | 0.0396 | 0.252 | 1 | 05/31/2024 18:21 | WG2295058 |
| Cadmium | U | | 0.0593 | 0.629 | 1 | 05/31/2024 18:21 | WG2295058 |
| Chromium | 44.5 | | 0.167 | 1.26 | 1 | 05/31/2024 18:21 | WG2295058 |
| Cobalt | 9.93 | | 0.102 | 1.26 | 1 | 05/31/2024 18:21 | WG2295058 |
| Copper | 14.3 | | 0.503 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| Lead | 6.80 | | 0.262 | 0.629 | 1 | 05/31/2024 18:21 | WG2295058 |
| Molybdenum | U | | 0.137 | 0.629 | 1 | 05/31/2024 18:21 | WG2295058 |
| Nickel | 87.7 | | 0.166 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| Selenium | U | | 0.961 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| Silver | U | | 0.160 | 1.26 | 1 | 05/31/2024 18:21 | WG2295058 |
| Thallium | 1.10 | J | 0.496 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| Vanadium | 24.4 | | 0.637 | 2.52 | 1 | 05/31/2024 18:21 | WG2295058 |
| Zinc | 25.9 | | 1.05 | 6.29 | 1 | 05/31/2024 18:21 | WG2295058 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.45 | 4.38 | 25 | 05/29/2024 17:24 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.9* | | | *77.0-120* | | *05/29/2024 17:24* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0578 | 0.0792 | 1 | 05/30/2024 00:16 | WG2295165 |
| Acrylonitrile | U | | 0.00572 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| Benzene | U | | 0.000739 | 0.00158 | 1 | 05/30/2024 00:16 | WG2295165 |
| Bromobenzene | U | | 0.00143 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| Bromodichloromethane | U | | 0.00115 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Bromoform | U | | 0.00185 | 0.0396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Bromomethane | U | | 0.00312 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| n-Butylbenzene | U | | 0.00831 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| sec-Butylbenzene | U | | 0.00456 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| tert-Butylbenzene | U | | 0.00309 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| Carbon tetrachloride | U | | 0.00142 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| Chlorobenzene | U | | 0.000333 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Chlorodibromomethane | U | | 0.000969 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Chloroethane | U | | 0.00269 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| Chloroform | U | | 0.00163 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Chloromethane | U | | 0.00689 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00137 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000713 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00618 | 0.0396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.00103 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Dibromomethane | U | | 0.00119 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000673 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000950 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.00111 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00255 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000777 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.00103 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000960 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.00116 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00165 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00225 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00128 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000793 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00120 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00181 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00219 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Di-isopropyl ether | U | | 0.000649 | 0.00158 | 1 | 05/30/2024 00:16 | WG2295165 |
| Ethylbenzene | U | | 0.00117 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00950 | 0.0396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Isopropylbenzene | U | | 0.000673 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00404 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.101 | 0.158 | 1 | 05/30/2024 00:16 | WG2295165 |
| Methylene Chloride | U | | 0.0105 | 0.0396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00361 | 0.0396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000554 | 0.00158 | 1 | 05/30/2024 00:16 | WG2295165 |
| Naphthalene | U | | 0.00773 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| n-Propylbenzene | U | | 0.00150 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| Styrene | U | | 0.000363 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00150 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00110 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00119 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Tetrachloroethene | U | | 0.00142 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Toluene | U | | 0.00206 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.0116 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00697 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00146 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000945 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Trichloroethene | 0.00782 | | 0.000925 | 0.00158 | 1 | 05/30/2024 00:16 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00131 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00257 | 0.0198 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00250 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00250 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00317 | 0.00792 | 1 | 05/30/2024 00:16 | WG2295165 |
| Vinyl chloride | U | | 0.00184 | 0.00396 | 1 | 05/30/2024 00:16 | WG2295165 |
| Xylenes, Total | U | | 0.00139 | 0.0103 | 1 | 05/30/2024 00:16 | WG2295165 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *05/30/2024 00:16* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *98.7* | | | *67.0-138* | | *05/30/2024 00:16* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *86.8* | | | *70.0-130* | | *05/30/2024 00:16* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.922 | 5.03 | 1 | 05/30/2024 13:37 | WG2295238 |
| C22-C32 Hydrocarbons | 2.47 | J | 1.67 | 5.03 | 1 | 05/30/2024 13:37 | WG2295238 |
| C32-C40 Hydrocarbons | 3.32 | J | 1.67 | 5.03 | 1 | 05/30/2024 13:37 | WG2295238 |
| *(S) o-Terphenyl* | *68.7* | | | *18.0-148* | | *05/30/2024 13:37* | WG2295238 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00678 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Acenaphthylene | U | | 0.00590 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Anthracene | U | | 0.00746 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Benzidine | U | | 0.0788 | 2.10 | 1 | 05/30/2024 17:46 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00739 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.00781 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00745 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00766 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Benzo(a)pyrene | U | | 0.00779 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0126 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0138 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0181 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0147 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00736 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0146 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Chrysene | U | | 0.00833 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0116 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0124 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0127 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0125 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0155 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0120 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0137 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Fluoranthene | U | | 0.00756 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Fluorene | U | | 0.00682 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Hexachlorobenzene | U | | 0.0148 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0141 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0220 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Hexachloroethane | U | | 0.0165 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0118 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Isophorone | U | | 0.0128 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Naphthalene | U | | 0.0105 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Nitrobenzene | U | | 0.0146 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0622 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0317 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0140 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Phenanthrene | U | | 0.00832 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0131 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0531 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0143 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Diethyl phthalate | U | | 0.0138 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Dimethyl phthalate | U | | 0.0888 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0283 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Pyrene | U | | 0.00815 | 0.0419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0131 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0136 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2-Chlorophenol | U | | 0.0138 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0122 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0109 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0950 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0980 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2-Nitrophenol | U | | 0.0150 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 4-Nitrophenol | U | | 0.0131 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Pentachlorophenol | U | | 0.0113 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| Phenol | U | | 0.0169 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0135 | 0.419 | 1 | 05/30/2024 17:46 | WG2295242 |
| *(S) 2-Fluorophenol* | *57.4* | | | *12.0-120* | | *05/30/2024 17:46* | WG2295242 |
| *(S) Phenol-d5* | *50.6* | | | *10.0-120* | | *05/30/2024 17:46* | WG2295242 |
| *(S) Nitrobenzene-d5* | *44.3* | | | *10.0-122* | | *05/30/2024 17:46* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *49.1* | | | *15.0-120* | | *05/30/2024 17:46* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *42.0* | | | *10.0-127* | | *05/30/2024 17:46* | WG2295242 |
| *(S) p-Terphenyl-d14* | *62.0* | | | *10.0-120* | | *05/30/2024 17:46* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.7 | | 1 | 06/04/2024 14:49 | WG2298380 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Nickel | 110 | | 0.147 | 2.23 | 1 | 07/01/2024 20:06 | WG2315127 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0458 | 0.0627 | 1 | 06/04/2024 19:34 | WG2298400 |
| Acrylonitrile | U | | 0.00453 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| Benzene | U | | 0.000586 | 0.00125 | 1 | 06/04/2024 19:34 | WG2298400 |
| Bromobenzene | U | | 0.00113 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| Bromodichloromethane | U | | 0.000909 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Bromoform | U | | 0.00147 | 0.0314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Bromomethane | U | | 0.00247 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| n-Butylbenzene | U | | 0.00659 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| sec-Butylbenzene | U | | 0.00361 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| tert-Butylbenzene | U | | 0.00245 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| Carbon tetrachloride | U | | 0.00113 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| Chlorobenzene | U | | 0.000263 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Chlorodibromomethane | U | | 0.000768 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Chloroethane | U | | 0.00213 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| Chloroform | U | | 0.00129 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Chloromethane | U | | 0.00546 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| 2-Chlorotoluene | U | | 0.00109 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 4-Chlorotoluene | U | | 0.000564 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00489 | 0.0314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2-Dibromoethane | U | | 0.000813 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Dibromomethane | U | | 0.000941 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2-Dichlorobenzene | U | | 0.000533 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,3-Dichlorobenzene | U | | 0.000753 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,4-Dichlorobenzene | U | | 0.000878 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| Dichlorodifluoromethane | U | | 0.00202 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,1-Dichloroethane | U | | 0.000616 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2-Dichloroethane | U | | 0.000814 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,1-Dichloroethene | U | | 0.000760 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| cis-1,2-Dichloroethene | U | | 0.000921 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| trans-1,2-Dichloroethene | U | | 0.00130 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2-Dichloropropane | U | | 0.00178 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,1-Dichloropropene | U | | 0.00101 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,3-Dichloropropane | U | | 0.000628 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| cis-1,3-Dichloropropene | U | | 0.000950 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| trans-1,3-Dichloropropene | U | | 0.00143 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 2,2-Dichloropropane | U | | 0.00173 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Di-isopropyl ether | U | | 0.000514 | 0.00125 | 1 | 06/04/2024 19:34 | WG2298400 |
| Ethylbenzene | 0.00100 | J | 0.000924 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Hexachloro-1,3-butadiene | U | | 0.00753 | 0.0314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Isopropylbenzene | U | | 0.000533 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| p-Isopropyltoluene | U | | 0.00320 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 2-Butanone (MEK) | U | | 0.0797 | 0.125 | 1 | 06/04/2024 19:34 | WG2298400 |
| Methylene Chloride | U | | 0.00833 | 0.0314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00286 | 0.0314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Methyl tert-butyl ether | U | | 0.000439 | 0.00125 | 1 | 06/04/2024 19:34 | WG2298400 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Naphthalene | U | | 0.00612 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| n-Propylbenzene | U | | 0.00119 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| Styrene | U | | 0.000287 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00119 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000872 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000946 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Tetrachloroethene | U | | 0.00112 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Toluene | U | | 0.00163 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2,3-Trichlorobenzene | U | | 0.00919 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2,4-Trichlorobenzene | U | | 0.00552 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,1,1-Trichloroethane | U | | 0.00116 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,1,2-Trichloroethane | U | | 0.000749 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Trichloroethene | 0.00646 | | 0.000733 | 0.00125 | 1 | 06/04/2024 19:34 | WG2298400 |
| Trichlorofluoromethane | U | | 0.00104 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2,3-Trichloropropane | U | | 0.00203 | 0.0157 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2,4-Trimethylbenzene | U | | 0.00198 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,2,3-Trimethylbenzene | U | | 0.00198 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| 1,3,5-Trimethylbenzene | U | | 0.00251 | 0.00627 | 1 | 06/04/2024 19:34 | WG2298400 |
| Vinyl chloride | U | | 0.00146 | 0.00314 | 1 | 06/04/2024 19:34 | WG2298400 |
| Xylenes, Total | 0.00386 | J | 0.00110 | 0.00815 | 1 | 06/04/2024 19:34 | WG2298400 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/04/2024 19:34* | WG2298400 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/04/2024 19:34* | WG2298400 |
| *(S) 1,2-Dichloroethane-d4* | *92.6* | | | *70.0-130* | | *06/04/2024 19:34* | WG2298400 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.1 | | 1 | 05/29/2024 15:10 | WG2294985 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.42 | 4.26 | 25 | 05/29/2024 17:43 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.8* | | | *77.0-120* | | *05/29/2024 17:43* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0621 | 0.0851 | 1 | 05/30/2024 00:36 | WG2295165 |
| Acrylonitrile | U | | 0.00614 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| Benzene | U | | 0.000795 | 0.00170 | 1 | 05/30/2024 00:36 | WG2295165 |
| Bromobenzene | U | | 0.00153 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| Bromodichloromethane | U | | 0.00123 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Bromoform | U | | 0.00199 | 0.0425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Bromomethane | U | | 0.00335 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| n-Butylbenzene | U | | 0.00894 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| sec-Butylbenzene | U | | 0.00490 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| tert-Butylbenzene | U | | 0.00332 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| Carbon tetrachloride | U | | 0.00153 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| Chlorobenzene | U | | 0.000357 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Chlorodibromomethane | U | | 0.00104 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Chloroethane | U | | 0.00289 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| Chloroform | U | | 0.00175 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Chloromethane | U | | 0.00740 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00147 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000766 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00664 | 0.0425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.00110 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Dibromomethane | U | | 0.00128 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000723 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.00102 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.00119 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00274 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000836 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.00110 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.00103 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.00125 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00177 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00242 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00138 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000853 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00129 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00194 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00235 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Di-isopropyl ether | U | | 0.000698 | 0.00170 | 1 | 05/30/2024 00:36 | WG2295165 |
| Ethylbenzene | U | | 0.00125 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.0102 | 0.0425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Isopropylbenzene | U | | 0.000723 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00434 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.108 | 0.170 | 1 | 05/30/2024 00:36 | WG2295165 |
| Methylene Chloride | U | | 0.0113 | 0.0425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00388 | 0.0425 | 1 | 05/30/2024 00:36 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000596 | 0.00170 | 1 | 05/30/2024 00:36 | WG2295165 |
| Naphthalene | U | | 0.00831 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| n-Propylbenzene | U | | 0.00162 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| Styrene | U | | 0.000390 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00161 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00118 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00128 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Tetrachloroethene | U | | 0.00152 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Toluene | U | | 0.00221 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.0125 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00749 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00157 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.00102 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Trichloroethene | U | | 0.000994 | 0.00170 | 1 | 05/30/2024 00:36 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00141 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00276 | 0.0213 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00269 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00269 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00340 | 0.00851 | 1 | 05/30/2024 00:36 | WG2295165 |
| Vinyl chloride | U | | 0.00197 | 0.00425 | 1 | 05/30/2024 00:36 | WG2295165 |
| Xylenes, Total | U | | 0.00150 | 0.0111 | 1 | 05/30/2024 00:36 | WG2295165 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *05/30/2024 00:36* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *96.0* | | | *67.0-138* | | *05/30/2024 00:36* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *84.6* | | | *70.0-130* | | *05/30/2024 00:36* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.23 | J | 0.964 | 5.26 | 1 | 05/30/2024 16:18 | WG2295238 |
| C22-C32 Hydrocarbons | 4.89 | J | 1.75 | 5.26 | 1 | 05/30/2024 16:18 | WG2295238 |
| C32-C40 Hydrocarbons | 5.11 | J | 1.75 | 5.26 | 1 | 05/30/2024 16:18 | WG2295238 |
| *(S) o-Terphenyl* | *29.3* | | | *18.0-148* | | *05/30/2024 16:18* | WG2295238 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.0 | | 1 | 05/24/2024 09:20 | WG2292490 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.30 | B J | 1.28 | 3.87 | 25 | 05/26/2024 04:38 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.3* | | | *77.0-120* | | *05/26/2024 04:38* | WG2293479 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0565 | 0.0774 | 1 | 05/25/2024 20:45 | WG2293082 |
| Acrylonitrile | U | | 0.00559 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| Benzene | U | | 0.000723 | 0.00155 | 1 | 05/25/2024 20:45 | WG2293082 |
| Bromobenzene | U | | 0.00139 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| Bromodichloromethane | U | | 0.00112 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Bromoform | U | | 0.00181 | 0.0387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Bromomethane | U | | 0.00305 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| n-Butylbenzene | U | | 0.00813 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| sec-Butylbenzene | U | | 0.00446 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| tert-Butylbenzene | U | | 0.00302 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| Carbon tetrachloride | U | | 0.00139 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| Chlorobenzene | U | | 0.000325 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Chlorodibromomethane | U | | 0.000947 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Chloroethane | U | | 0.00263 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| Chloroform | U | | 0.00159 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Chloromethane | U | | 0.00673 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| 2-Chlorotoluene | U | | 0.00134 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 4-Chlorotoluene | U | | 0.000697 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00604 | 0.0387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2-Dibromoethane | U | | 0.00100 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Dibromomethane | U | | 0.00116 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2-Dichlorobenzene | U | | 0.000658 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,3-Dichlorobenzene | U | | 0.000929 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,4-Dichlorobenzene | U | | 0.00108 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| Dichlorodifluoromethane | U | | 0.00249 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,1-Dichloroethane | U | | 0.000760 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2-Dichloroethane | U | | 0.00100 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,1-Dichloroethene | U | | 0.000938 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| cis-1,2-Dichloroethene | U | | 0.00114 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| trans-1,2-Dichloroethene | U | | 0.00161 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2-Dichloropropane | U | J4 | 0.00220 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,1-Dichloropropene | U | | 0.00125 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,3-Dichloropropane | U | | 0.000776 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| cis-1,3-Dichloropropene | U | | 0.00117 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| trans-1,3-Dichloropropene | U | | 0.00176 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 2,2-Dichloropropane | U | | 0.00214 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Di-isopropyl ether | U | | 0.000635 | 0.00155 | 1 | 05/25/2024 20:45 | WG2293082 |
| Ethylbenzene | U | | 0.00114 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Hexachloro-1,3-butadiene | U | | 0.00929 | 0.0387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Isopropylbenzene | U | | 0.000658 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| p-Isopropyltoluene | U | | 0.00395 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 2-Butanone (MEK) | U | J4 | 0.0983 | 0.155 | 1 | 05/25/2024 20:45 | WG2293082 |
| Methylene Chloride | U | | 0.0103 | 0.0387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00353 | 0.0387 | 1 | 05/25/2024 20:45 | WG2293082 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000542 | 0.00155 | 1 | 05/25/2024 20:45 | WG2293082 |
| Naphthalene | U | | 0.00755 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| n-Propylbenzene | U | | 0.00147 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| Styrene | U | | 0.000355 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00147 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00108 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00117 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Tetrachloroethene | U | | 0.00139 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Toluene | U | | 0.00201 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2,3-Trichlorobenzene | U | | 0.0113 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2,4-Trichlorobenzene | U | | 0.00681 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,1,1-Trichloroethane | U | | 0.00143 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,1,2-Trichloroethane | U | | 0.000924 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Trichloroethene | U | | 0.000904 | 0.00155 | 1 | 05/25/2024 20:45 | WG2293082 |
| Trichlorofluoromethane | U | J4 | 0.00128 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2,3-Trichloropropane | U | | 0.00251 | 0.0194 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2,4-Trimethylbenzene | U | | 0.00245 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,2,3-Trimethylbenzene | U | | 0.00245 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| 1,3,5-Trimethylbenzene | U | | 0.00310 | 0.00774 | 1 | 05/25/2024 20:45 | WG2293082 |
| Vinyl chloride | U | | 0.00180 | 0.00387 | 1 | 05/25/2024 20:45 | WG2293082 |
| Xylenes, Total | U | | 0.00136 | 0.0101 | 1 | 05/25/2024 20:45 | WG2293082 |
| *(S) Toluene-d8* | *93.4* | | | *75.0-131* | | *05/25/2024 20:45* | WG2293082 |
| *(S) 4-Bromofluorobenzene* | *97.8* | | | *67.0-138* | | *05/25/2024 20:45* | WG2293082 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *05/25/2024 20:45* | WG2293082 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.905 | 4.94 | 1 | 05/24/2024 19:00 | WG2292509 |
| C22-C32 Hydrocarbons | U | | 1.64 | 4.94 | 1 | 05/24/2024 19:00 | WG2292509 |
| C32-C40 Hydrocarbons | U | | 1.64 | 4.94 | 1 | 05/24/2024 19:00 | WG2292509 |
| *(S) o-Terphenyl* | *74.4* | | | *18.0-148* | | *05/24/2024 19:00* | WG2292509 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 05/30/2024 10:36 | WG2295042 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/30/2024 10:36 | WG2295042 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/30/2024 10:36 | WG2295042 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/30/2024 10:36 | WG2295042 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/30/2024 10:36 | WG2295042 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/30/2024 10:36 | WG2295042 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |

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

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/30/2024 10:36 | WG2295042 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *05/30/2024 10:36* | WG2295042 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *77.0-126* | | *05/30/2024 10:36* | WG2295042 |
| *(S) 1,2-Dichloroethane-d4* | *118* | | | *70.0-130* | | *05/30/2024 10:36* | WG2295042 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.6 | | 1 | 05/29/2024 15:10 | WG2294985 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.133 | | 0.0194 | 0.0432 | 1 | 05/29/2024 22:07 | WG2295049 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 0.840 | J | 0.588 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| Arsenic | 4.02 | | 0.560 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| Barium | 139 | | 0.0920 | 0.540 | 1 | 05/31/2024 18:23 | WG2295058 |
| Beryllium | 0.173 | J | 0.0340 | 0.216 | 1 | 05/31/2024 18:23 | WG2295058 |
| Cadmium | 0.140 | J | 0.0509 | 0.540 | 1 | 05/31/2024 18:23 | WG2295058 |
| Chromium | 21.7 | | 0.144 | 1.08 | 1 | 05/31/2024 18:23 | WG2295058 |
| Cobalt | 7.77 | | 0.0876 | 1.08 | 1 | 05/31/2024 18:23 | WG2295058 |
| Copper | 20.6 | | 0.432 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| Lead | 42.3 | | 0.225 | 0.540 | 1 | 05/31/2024 18:23 | WG2295058 |
| Molybdenum | 0.565 | | 0.118 | 0.540 | 1 | 05/31/2024 18:23 | WG2295058 |
| Nickel | 26.1 | | 0.143 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| Selenium | U | | 0.825 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| Silver | U | | 0.137 | 1.08 | 1 | 05/31/2024 18:23 | WG2295058 |
| Thallium | 1.82 | J | 0.426 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| Vanadium | 30.5 | | 0.547 | 2.16 | 1 | 05/31/2024 18:23 | WG2295058 |
| Zinc | 66.7 | | 0.899 | 5.40 | 1 | 05/31/2024 18:23 | WG2295058 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0127 | 0.0367 | 1 | 05/31/2024 03:21 | WG2295241 |
| PCB 1221 | U | | 0.0127 | 0.0367 | 1 | 05/31/2024 03:21 | WG2295241 |
| PCB 1232 | U | | 0.0127 | 0.0367 | 1 | 05/31/2024 03:21 | WG2295241 |
| PCB 1242 | U | | 0.0127 | 0.0367 | 1 | 05/31/2024 03:21 | WG2295241 |
| PCB 1248 | U | | 0.00797 | 0.0184 | 1 | 05/31/2024 03:21 | WG2295241 |
| PCB 1254 | U | | 0.00797 | 0.0184 | 1 | 05/31/2024 03:21 | WG2295241 |
| PCB 1260 | U | | 0.00797 | 0.0184 | 1 | 05/31/2024 03:21 | WG2295241 |
| *(S) Decachlorobiphenyl* | *66.6* | | | *10.0-135* | | *05/31/2024 03:21* | WG2295241 |
| *(S) Tetrachloro-m-xylene* | *69.5* | | | *10.0-139* | | *05/31/2024 03:21* | WG2295241 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0117 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Acenaphthylene | U | | 0.0101 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Anthracene | U | | 0.0129 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Benzidine | U | | 0.135 | 3.61 | 2 | 05/31/2024 08:33 | WG2295242 |
| Benzo(a)anthracene | 0.0540 | J | 0.0126 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Benzo(b)fluoranthene | 0.107 | | 0.0134 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Benzo(k)fluoranthene | 0.0379 | J | 0.0127 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Benzo(g,h,i)perylene | 0.0455 | J | 0.0132 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Benzo(a)pyrene | 0.0788 | | 0.0134 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0216 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0238 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0311 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0253 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.0126 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0251 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Chrysene | 0.0757 | | 0.0143 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0200 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0213 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0218 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0214 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0266 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0206 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0236 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Fluoranthene | 0.0908 | | 0.0130 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Fluorene | U | | 0.0117 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Hexachlorobenzene | U | | 0.0255 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0242 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0378 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Hexachloroethane | U | | 0.0283 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | 0.0367 | J | 0.0203 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Isophorone | U | | 0.0220 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Naphthalene | U | | 0.0180 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Nitrobenzene | U | | 0.0251 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.107 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0545 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0240 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Phenanthrene | 0.0305 | J | 0.0143 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0225 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0912 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0246 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Diethyl phthalate | U | | 0.0238 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Dimethyl phthalate | U | | 0.152 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0486 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Pyrene | 0.112 | | 0.0140 | 0.0720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0225 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0233 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2-Chlorophenol | U | | 0.0238 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0210 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0188 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.163 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.169 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2-Nitrophenol | U | | 0.0257 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 4-Nitrophenol | U | | 0.0225 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Pentachlorophenol | U | | 0.0193 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| Phenol | U | | 0.0290 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0231 | 0.720 | 2 | 05/31/2024 08:33 | WG2295242 |
| *(S) 2-Fluorophenol* | *74.7* | | | *12.0-120* | | *05/31/2024 08:33* | WG2295242 |
| *(S) Phenol-d5* | *69.1* | | | *10.0-120* | | *05/31/2024 08:33* | WG2295242 |
| *(S) Nitrobenzene-d5* | *58.7* | | | *10.0-122* | | *05/31/2024 08:33* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *65.4* | | | *15.0-120* | | *05/31/2024 08:33* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *52.0* | | | *10.0-127* | | *05/31/2024 08:33* | WG2295242 |
| *(S) p-Terphenyl-d14* | *78.3* | | | *10.0-120* | | *05/31/2024 08:33* | WG2295242 |

**Sample Narrative:**

L1739342-20 WG2295242: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 05/29/2024 15:10 | WG2294985 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.199 | | 0.0193 | 0.0428 | 1 | 05/29/2024 22:14 | WG2295049 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.40 | J | 0.582 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| Arsenic | 5.66 | | 0.555 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| Barium | 90.3 | | 0.0912 | 0.535 | 1 | 05/31/2024 18:25 | WG2295058 |
| Beryllium | 0.170 | J | 0.0337 | 0.214 | 1 | 05/31/2024 18:25 | WG2295058 |
| Cadmium | 0.170 | J | 0.0504 | 0.535 | 1 | 05/31/2024 18:25 | WG2295058 |
| Chromium | 27.1 | | 0.142 | 1.07 | 1 | 05/31/2024 18:25 | WG2295058 |
| Cobalt | 11.7 | | 0.0868 | 1.07 | 1 | 05/31/2024 18:25 | WG2295058 |
| Copper | 27.4 | | 0.428 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| Lead | 57.4 | | 0.223 | 0.535 | 1 | 05/31/2024 18:25 | WG2295058 |
| Molybdenum | U | | 0.117 | 0.535 | 1 | 05/31/2024 18:25 | WG2295058 |
| Nickel | 41.6 | | 0.141 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| Selenium | U | | 0.818 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| Silver | U | | 0.136 | 1.07 | 1 | 06/13/2024 11:00 | WG2303292 |
| Thallium | 1.49 | J | 0.422 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| Vanadium | 38.7 | | 0.542 | 2.14 | 1 | 05/31/2024 18:25 | WG2295058 |
| Zinc | 92.0 | | 0.891 | 5.35 | 1 | 05/31/2024 18:25 | WG2295058 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0425 | 0.0583 | 1 | 05/30/2024 00:56 | WG2295165 |
| Acrylonitrile | U | | 0.00421 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| Benzene | U | | 0.000544 | 0.00117 | 1 | 05/30/2024 00:56 | WG2295165 |
| Bromobenzene | U | | 0.00105 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| Bromodichloromethane | U | | 0.000845 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Bromoform | U | | 0.00136 | 0.0291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Bromomethane | U | | 0.00230 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| n-Butylbenzene | U | | 0.00612 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| sec-Butylbenzene | U | | 0.00336 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| tert-Butylbenzene | U | | 0.00227 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| Carbon tetrachloride | U | | 0.00105 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| Chlorobenzene | U | | 0.000245 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Chlorodibromomethane | U | | 0.000713 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Chloroethane | U | | 0.00198 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| Chloroform | U | | 0.00120 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Chloromethane | U | | 0.00507 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00101 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000525 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00455 | 0.0291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000755 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Dibromomethane | U | | 0.000874 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000495 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000699 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.000816 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00188 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000572 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000757 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000706 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.000856 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00121 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00166 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.000943 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000584 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.000882 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00133 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00161 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Di-isopropyl ether | U | | 0.000478 | 0.00117 | 1 | 05/30/2024 00:56 | WG2295165 |
| Ethylbenzene | U | | 0.000859 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00699 | 0.0291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Isopropylbenzene | U | | 0.000495 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00297 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0740 | 0.117 | 1 | 05/30/2024 00:56 | WG2295165 |
| Methylene Chloride | 0.00840 | J | 0.00774 | 0.0291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00266 | 0.0291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000408 | 0.00117 | 1 | 05/30/2024 00:56 | WG2295165 |
| Naphthalene | U | | 0.00569 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| n-Propylbenzene | U | | 0.00111 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| Styrene | U | | 0.000267 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00111 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000810 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000879 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Tetrachloroethene | U | | 0.00104 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Toluene | U | | 0.00152 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.00854 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00513 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00108 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000696 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Trichloroethene | U | | 0.000681 | 0.00117 | 1 | 05/30/2024 00:56 | WG2295165 |
| Trichlorofluoromethane | U | | 0.000964 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00189 | 0.0146 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00184 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00184 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00233 | 0.00583 | 1 | 05/30/2024 00:56 | WG2295165 |
| Vinyl chloride | U | | 0.00135 | 0.00291 | 1 | 05/30/2024 00:56 | WG2295165 |
| Xylenes, Total | 0.00112 | J | 0.00103 | 0.00758 | 1 | 05/30/2024 00:56 | WG2295165 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *05/30/2024 00:56* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *96.8* | | | *67.0-138* | | *05/30/2024 00:56* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *83.3* | | | *70.0-130* | | *05/30/2024 00:56* | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00577 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Acenaphthylene | U | | 0.00502 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Anthracene | U | | 0.00635 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Benzidine | U | | 0.0670 | 1.79 | 1 | 05/30/2024 19:50 | WG2295242 |
| Benzo(a)anthracene | 0.00853 | J | 0.00628 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Benzo(b)fluoranthene | 0.0357 | J | 0.00665 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Benzo(k)fluoranthene | 0.00918 | J | 0.00634 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Benzo(g,h,i)perylene | 0.0337 | J | 0.00652 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.0154 | J | 0.00663 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0107 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0118 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0154 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0125 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00626 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0124 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Chrysene | 0.0111 | J | 0.00709 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.00988 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0106 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0108 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0106 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0132 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0102 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0117 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Fluoranthene | 0.0124 | J | 0.00643 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Fluorene | U | | 0.00580 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Hexachlorobenzene | U | | 0.0126 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0120 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0187 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Hexachloroethane | U | | 0.0140 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | 0.0258 | J | 0.0101 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Isophorone | U | | 0.0109 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Naphthalene | U | | 0.00895 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Nitrobenzene | U | | 0.0124 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0529 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0270 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0119 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Phenanthrene | U | | 0.00708 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0111 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0452 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0122 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Diethyl phthalate | U | | 0.0118 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Dimethyl phthalate | U | | 0.0756 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0241 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Pyrene | 0.0206 | J | 0.00694 | 0.0357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0111 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0116 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2-Chlorophenol | U | | 0.0118 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0104 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.00932 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0808 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.0834 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2-Nitrophenol | U | | 0.0127 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 4-Nitrophenol | U | | 0.0111 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Pentachlorophenol | U | | 0.00959 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| Phenol | U | | 0.0143 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0115 | 0.357 | 1 | 05/30/2024 19:50 | WG2295242 |
| *(S) 2-Fluorophenol* | *55.4* | | | *12.0-120* | | *05/30/2024 19:50* | WG2295242 |
| *(S) Phenol-d5* | *49.7* | | | *10.0-120* | | *05/30/2024 19:50* | WG2295242 |
| *(S) Nitrobenzene-d5* | *46.8* | | | *10.0-122* | | *05/30/2024 19:50* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *49.8* | | | *15.0-120* | | *05/30/2024 19:50* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *42.1* | | | *10.0-127* | | *05/30/2024 19:50* | WG2295242 |
| *(S) p-Terphenyl-d14* | *54.1* | | | *10.0-120* | | *05/30/2024 19:50* | WG2295242 |

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.3 | | 1 | 05/29/2024 15:10 | WG2294985 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0431 | J | 0.0236 | 0.0524 | 1 | 05/29/2024 22:17 | WG2295049 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.00 | J | 0.713 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| Arsenic | 5.77 | | 0.679 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| Barium | 96.9 | | 0.112 | 0.655 | 1 | 05/31/2024 17:45 | WG2295058 |
| Beryllium | 0.266 | | 0.0413 | 0.262 | 1 | 05/31/2024 17:45 | WG2295058 |
| Cadmium | 0.100 | J | 0.0617 | 0.655 | 1 | 05/31/2024 17:45 | WG2295058 |
| Chromium | 28.3 | | 0.174 | 1.31 | 1 | 05/31/2024 17:45 | WG2295058 |
| Cobalt | 10.9 | | 0.106 | 1.31 | 1 | 05/31/2024 17:45 | WG2295058 |
| Copper | 27.5 | | 0.524 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| Lead | 19.9 | | 0.272 | 0.655 | 1 | 05/31/2024 17:45 | WG2295058 |
| Molybdenum | 0.261 | J | 0.143 | 0.655 | 1 | 05/31/2024 17:45 | WG2295058 |
| Nickel | 46.3 | | 0.173 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| Selenium | U | | 1.00 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| Silver | U | | 0.166 | 1.31 | 1 | 05/31/2024 17:45 | WG2295058 |
| Thallium | 1.18 | J | 0.516 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| Vanadium | 34.1 | | 0.663 | 2.62 | 1 | 05/31/2024 17:45 | WG2295058 |
| Zinc | 50.0 | | 1.09 | 6.55 | 1 | 05/31/2024 17:45 | WG2295058 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.95 | B J | 1.40 | 4.21 | 25 | 05/29/2024 18:02 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* | | *05/29/2024 18:02* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0615 | 0.0842 | 1 | 05/30/2024 01:16 | WG2295165 |
| Acrylonitrile | U | | 0.00608 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| Benzene | U | | 0.000787 | 0.00168 | 1 | 05/30/2024 01:16 | WG2295165 |
| Bromobenzene | U | | 0.00152 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| Bromodichloromethane | U | | 0.00122 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Bromoform | U | | 0.00197 | 0.0421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Bromomethane | U | | 0.00332 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| n-Butylbenzene | U | | 0.00884 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| sec-Butylbenzene | U | | 0.00485 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| tert-Butylbenzene | U | | 0.00328 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| Carbon tetrachloride | U | | 0.00151 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| Chlorobenzene | U | | 0.000354 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Chlorodibromomethane | U | | 0.00103 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Chloroethane | U | | 0.00286 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| Chloroform | U | | 0.00174 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Chloromethane | U | | 0.00733 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00146 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000758 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00657 | 0.0421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.00109 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Dibromomethane | U | | 0.00126 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000716 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.00101 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.00118 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00271 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000827 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.00109 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.00102 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.00124 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00175 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00239 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00136 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000844 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00128 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00192 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00232 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Di-isopropyl ether | U | | 0.000691 | 0.00168 | 1 | 05/30/2024 01:16 | WG2295165 |
| Ethylbenzene | U | | 0.00124 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.0101 | 0.0421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Isopropylbenzene | U | | 0.000716 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00430 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.107 | 0.168 | 1 | 05/30/2024 01:16 | WG2295165 |
| Methylene Chloride | U | | 0.0112 | 0.0421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00384 | 0.0421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000590 | 0.00168 | 1 | 05/30/2024 01:16 | WG2295165 |
| Naphthalene | U | | 0.00822 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| n-Propylbenzene | U | | 0.00160 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| Styrene | U | | 0.000386 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00160 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00117 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00127 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Tetrachloroethene | U | | 0.00151 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Toluene | U | | 0.00219 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.0123 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00741 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00155 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.00101 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Trichloroethene | U | | 0.000984 | 0.00168 | 1 | 05/30/2024 01:16 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00139 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00273 | 0.0211 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00266 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00266 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00337 | 0.00842 | 1 | 05/30/2024 01:16 | WG2295165 |
| Vinyl chloride | U | | 0.00195 | 0.00421 | 1 | 05/30/2024 01:16 | WG2295165 |
| Xylenes, Total | U | | 0.00148 | 0.0109 | 1 | 05/30/2024 01:16 | WG2295165 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *05/30/2024 01:16* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *96.9* | | | *67.0-138* | | *05/30/2024 01:16* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *88.6* | | | *70.0-130* | | *05/30/2024 01:16* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.20 | J | 0.960 | 5.24 | 1 | 05/30/2024 17:59 | WG2295238 |
| C22-C32 Hydrocarbons | 9.62 | | 1.74 | 5.24 | 1 | 05/30/2024 17:59 | WG2295238 |
| C32-C40 Hydrocarbons | 12.4 | | 1.74 | 5.24 | 1 | 05/30/2024 17:59 | WG2295238 |
| *(S) o-Terphenyl* | *55.3* | | | *18.0-148* | | *05/30/2024 17:59* | WG2295238 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00706 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Acenaphthylene | U | | 0.00614 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Anthracene | U | | 0.00777 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Benzidine | U | | 0.0820 | 2.19 | 1 | 05/30/2024 21:54 | WG2295242 |
| Benzo(a)anthracene | U | | 0.00769 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.00814 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.00776 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.00798 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Benzo(a)pyrene | U | | 0.00811 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.0131 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.0144 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0189 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.0153 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.00766 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.0152 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Chrysene | U | | 0.00867 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0121 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.0129 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.0132 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.0130 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.0161 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.0125 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.0143 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Fluoranthene | U | | 0.00787 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Fluorene | U | | 0.00710 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Hexachlorobenzene | U | | 0.0155 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.0147 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.0229 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Hexachloroethane | U | | 0.0172 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0123 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Isophorone | U | | 0.0134 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Naphthalene | U | | 0.0110 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Nitrobenzene | U | | 0.0152 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.0647 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.0330 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.0145 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Phenanthrene | U | | 0.00866 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.0136 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0553 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.0149 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Diethyl phthalate | U | | 0.0144 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Dimethyl phthalate | U | | 0.0925 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.0295 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Pyrene | U | | 0.00849 | 0.0436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.0136 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.0141 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2-Chlorophenol | U | | 0.0144 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.0127 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0114 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0989 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.102 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2-Nitrophenol | U | | 0.0156 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 4-Nitrophenol | U | | 0.0136 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Pentachlorophenol | U | | 0.0117 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| Phenol | U | | 0.0176 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.0140 | 0.436 | 1 | 05/30/2024 21:54 | WG2295242 |
| *(S) 2-Fluorophenol* | *56.0* | | | *12.0-120* | | *05/30/2024 21:54* | WG2295242 |
| *(S) Phenol-d5* | *53.5* | | | *10.0-120* | | *05/30/2024 21:54* | WG2295242 |
| *(S) Nitrobenzene-d5* | *43.8* | | | *10.0-122* | | *05/30/2024 21:54* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *51.9* | | | *15.0-120* | | *05/30/2024 21:54* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *49.4* | | | *10.0-127* | | *05/30/2024 21:54* | WG2295242 |
| *(S) p-Terphenyl-d14* | *60.8* | | | *10.0-120* | | *05/30/2024 21:54* | WG2295242 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.10 | 3.31 | 25 | 05/29/2024 18:21 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *77.0-120* | | *05/29/2024 18:21* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0484 | 0.0663 | 1 | 05/30/2024 01:37 | WG2295165 |
| Acrylonitrile | U | | 0.00479 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| Benzene | U | | 0.000619 | 0.00133 | 1 | 05/30/2024 01:37 | WG2295165 |
| Bromobenzene | U | | 0.00119 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| Bromodichloromethane | U | | 0.000961 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Bromoform | U | | 0.00155 | 0.0331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Bromomethane | U | | 0.00261 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| n-Butylbenzene | U | | 0.00696 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| sec-Butylbenzene | U | | 0.00382 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| tert-Butylbenzene | U | | 0.00258 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| Carbon tetrachloride | U | | 0.00119 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| Chlorobenzene | U | | 0.000278 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Chlorodibromomethane | U | | 0.000811 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Chloroethane | U | | 0.00225 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| Chloroform | U | | 0.00137 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Chloromethane | U | | 0.00577 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00115 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000597 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00517 | 0.0331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000859 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Dibromomethane | U | | 0.000994 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000563 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000795 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.000928 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00213 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000651 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000860 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000803 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.000973 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00138 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00188 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00107 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000664 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00100 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00151 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00183 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Di-isopropyl ether | U | | 0.000543 | 0.00133 | 1 | 05/30/2024 01:37 | WG2295165 |
| Ethylbenzene | U | | 0.000977 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00795 | 0.0331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Isopropylbenzene | U | | 0.000563 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00338 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0842 | 0.133 | 1 | 05/30/2024 01:37 | WG2295165 |
| Methylene Chloride | U | | 0.00880 | 0.0331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00302 | 0.0331 | 1 | 05/30/2024 01:37 | WG2295165 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000464 | 0.00133 | 1 | 05/30/2024 01:37 | WG2295165 |
| Naphthalene | U | | 0.00647 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| n-Propylbenzene | U | | 0.00126 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| Styrene | U | | 0.000304 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00126 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000921 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000999 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Tetrachloroethene | U | | 0.00119 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Toluene | 0.00225 | J | 0.00172 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.00972 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00583 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00122 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000791 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Trichloroethene | U | | 0.000774 | 0.00133 | 1 | 05/30/2024 01:37 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00110 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00215 | 0.0166 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00209 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00209 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00265 | 0.00663 | 1 | 05/30/2024 01:37 | WG2295165 |
| Vinyl chloride | U | | 0.00154 | 0.00331 | 1 | 05/30/2024 01:37 | WG2295165 |
| Xylenes, Total | U | | 0.00117 | 0.00862 | 1 | 05/30/2024 01:37 | WG2295165 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* | | *05/30/2024 01:37* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *67.0-138* | | *05/30/2024 01:37* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *85.7* | | | *70.0-130* | | *05/30/2024 01:37* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 8.44 | 46.0 | 10 | 05/31/2024 09:29 | WG2295238 |
| C22-C32 Hydrocarbons | 35.8 | J | 15.3 | 46.0 | 10 | 05/31/2024 09:29 | WG2295238 |
| C32-C40 Hydrocarbons | 51.2 | | 15.3 | 46.0 | 10 | 05/31/2024 09:29 | WG2295238 |
| *(S) o-Terphenyl* | *77.7* | | | *18.0-148* | | *05/31/2024 09:29* | WG2295238 |

**Sample Narrative:**

L1739342-24 WG2295238: Cannot run at lower dilution due to viscosity of extract.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.9 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.135 | | 0.0192 | 0.0426 | 1 | 05/30/2024 15:20 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.84 | J | 0.579 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| Arsenic | 5.05 | | 0.551 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| Barium | 138 | | 0.0907 | 0.532 | 1 | 06/01/2024 13:47 | WG2295060 |
| Beryllium | 0.164 | J | 0.0335 | 0.213 | 1 | 06/01/2024 13:47 | WG2295060 |
| Cadmium | 0.153 | B J | 0.0501 | 0.532 | 1 | 06/01/2024 13:47 | WG2295060 |
| Chromium | 24.3 | | 0.142 | 1.06 | 1 | 06/01/2024 13:47 | WG2295060 |
| Cobalt | 5.54 | | 0.0863 | 1.06 | 1 | 06/01/2024 13:47 | WG2295060 |
| Copper | 17.5 | | 0.426 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| Lead | 24.9 | | 0.221 | 0.532 | 1 | 06/01/2024 13:47 | WG2295060 |
| Molybdenum | 0.667 | | 0.116 | 0.532 | 1 | 06/01/2024 13:47 | WG2295060 |
| Nickel | 30.7 | | 0.141 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| Selenium | U | | 0.813 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| Silver | U | | 0.135 | 1.06 | 1 | 06/01/2024 13:47 | WG2295060 |
| Thallium | 1.18 | J | 0.419 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| Vanadium | 25.1 | | 0.539 | 2.13 | 1 | 06/01/2024 13:47 | WG2295060 |
| Zinc | 49.6 | | 0.886 | 5.32 | 1 | 06/01/2024 13:47 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.01 | B J T8 | 0.945 | 2.85 | 25 | 06/05/2024 01:16 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *06/05/2024 01:16* | WG2298546 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0126 | 0.0362 | 1 | 05/31/2024 03:30 | WG2295241 |
| PCB 1221 | U | | 0.0126 | 0.0362 | 1 | 05/31/2024 03:30 | WG2295241 |
| PCB 1232 | U | | 0.0126 | 0.0362 | 1 | 05/31/2024 03:30 | WG2295241 |
| PCB 1242 | U | | 0.0126 | 0.0362 | 1 | 05/31/2024 03:30 | WG2295241 |
| PCB 1248 | U | | 0.00786 | 0.0181 | 1 | 05/31/2024 03:30 | WG2295241 |
| PCB 1254 | U | | 0.00786 | 0.0181 | 1 | 05/31/2024 03:30 | WG2295241 |
| PCB 1260 | U | | 0.00786 | 0.0181 | 1 | 05/31/2024 03:30 | WG2295241 |
| *(S) Decachlorobiphenyl* | *99.4* | | | *10.0-135* | | *05/31/2024 03:30* | WG2295241 |
| *(S) Tetrachloro-m-xylene* | *70.1* | | | *10.0-139* | | *05/31/2024 03:30* | WG2295241 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0574 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Acenaphthylene | U | | 0.0499 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Anthracene | U | | 0.0631 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Benzidine | U | | 0.666 | 17.8 | 10 | 05/31/2024 06:50 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 0.0755 | J | 0.0625 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Benzo(b)fluoranthene | 0.178 | J | 0.0661 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.0630 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Benzo(g,h,i)perylene | 0.0884 | J | 0.0648 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Benzo(a)pyrene | 0.133 | J | 0.0659 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.106 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.117 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.153 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.125 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.0623 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.123 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Chrysene | 0.0837 | J | 0.0705 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0983 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.105 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.108 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.106 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.131 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.102 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.116 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Fluoranthene | 0.166 | J | 0.0640 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Fluorene | U | | 0.0577 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Hexachlorobenzene | U | | 0.126 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.119 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.186 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Hexachloroethane | U | | 0.139 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.100 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Isophorone | U | | 0.109 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Naphthalene | U | | 0.0890 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Nitrobenzene | U | | 0.123 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.526 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.268 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.118 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Phenanthrene | U | | 0.0704 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.111 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.449 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.121 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Diethyl phthalate | U | | 0.117 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Dimethyl phthalate | U | | 0.752 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.240 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Pyrene | 0.278 | J | 0.0690 | 0.355 | 10 | 05/31/2024 06:50 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.111 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.115 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2-Chlorophenol | U | | 0.117 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.103 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0926 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.804 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.829 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2-Nitrophenol | U | | 0.127 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 4-Nitrophenol | U | | 0.111 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Pentachlorophenol | U | | 0.0954 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| Phenol | U | | 0.143 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.114 | 3.55 | 10 | 05/31/2024 06:50 | WG2295242 |
| *(S) 2-Fluorophenol* | *92.0* | | | *12.0-120* | | *05/31/2024 06:50* | WG2295242 |
| *(S) Phenol-d5* | *93.3* | | | *10.0-120* | | *05/31/2024 06:50* | WG2295242 |
| *(S) Nitrobenzene-d5* | *79.4* | | | *10.0-122* | | *05/31/2024 06:50* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *92.9* | | | *15.0-120* | | *05/31/2024 06:50* | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) 2,4,6-Tribromophenol* | *47.9* | | | *10.0-127* | | *05/31/2024 06:50* | WG2295242 |
| *(S) p-Terphenyl-d14* | *103* | | | *10.0-120* | | *05/31/2024 06:50* | WG2295242 |

**Sample Narrative:**

L1739342-25 WG2295242: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0331 | J | 0.0195 | 0.0433 | 1 | 05/30/2024 15:22 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 0.825 | J | 0.589 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| Arsenic | 6.89 | | 0.561 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| Barium | 111 | | 0.0922 | 0.541 | 1 | 06/01/2024 13:48 | WG2295060 |
| Beryllium | 0.486 | | 0.0341 | 0.216 | 1 | 06/01/2024 13:48 | WG2295060 |
| Cadmium | U | | 0.0510 | 0.541 | 1 | 06/01/2024 13:48 | WG2295060 |
| Chromium | 26.3 | | 0.144 | 1.08 | 1 | 06/01/2024 13:48 | WG2295060 |
| Cobalt | 9.18 | | 0.0878 | 1.08 | 1 | 06/01/2024 13:48 | WG2295060 |
| Copper | 26.2 | | 0.433 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| Lead | 22.5 | | 0.225 | 0.541 | 1 | 06/01/2024 13:48 | WG2295060 |
| Molybdenum | U | | 0.118 | 0.541 | 1 | 06/01/2024 13:48 | WG2295060 |
| Nickel | 41.7 | | 0.143 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| Selenium | U | | 0.827 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| Silver | U | | 0.137 | 1.08 | 1 | 06/01/2024 13:48 | WG2295060 |
| Thallium | 1.24 | J | 0.426 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| Vanadium | 26.3 | | 0.548 | 2.16 | 1 | 06/01/2024 13:48 | WG2295060 |
| Zinc | 53.9 | | 0.900 | 5.41 | 1 | 06/01/2024 13:48 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.53 | B J T8 | 1.16 | 3.51 | 30.5 | 06/05/2024 01:39 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/05/2024 01:39* | WG2298546 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0485 | 0.0663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Acrylonitrile | U | | 0.00479 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Benzene | 0.00113 | J | 0.000620 | 0.00133 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Bromobenzene | U | | 0.00120 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Bromodichloromethane | U | | 0.000962 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Bromoform | U | | 0.00156 | 0.0332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Bromomethane | U | | 0.00262 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| n-Butylbenzene | U | | 0.00697 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| sec-Butylbenzene | U | | 0.00382 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| tert-Butylbenzene | U | | 0.00258 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Carbon tetrachloride | U | | 0.00119 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Chlorobenzene | U | | 0.000279 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Chlorodibromomethane | U | | 0.000812 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Chloroethane | U | | 0.00226 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Chloroform | U | | 0.00136 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Chloromethane | U | | 0.00577 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 2-Chlorotoluene | U | | 0.00115 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 4-Chlorotoluene | U | | 0.000598 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00518 | 0.0332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2-Dibromoethane | U | | 0.000860 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Dibromomethane | U | | 0.000996 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2-Dichlorobenzene | U | | 0.000564 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,3-Dichlorobenzene | U | | 0.000796 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,4-Dichlorobenzene | U | | 0.000929 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Dichlorodifluoromethane | U | | 0.00213 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,1-Dichloroethane | U | | 0.000652 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2-Dichloroethane | U | | 0.000861 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,1-Dichloroethene | U | | 0.000804 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| cis-1,2-Dichloroethene | U | | 0.000974 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| trans-1,2-Dichloroethene | U | | 0.00138 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2-Dichloropropane | U | | 0.00188 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,1-Dichloropropene | U | | 0.00107 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,3-Dichloropropane | U | | 0.000665 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| cis-1,3-Dichloropropene | U | | 0.00100 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| trans-1,3-Dichloropropene | U | | 0.00151 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 2,2-Dichloropropane | U | | 0.00183 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Di-isopropyl ether | U | | 0.000545 | 0.00133 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Ethylbenzene | U | | 0.000978 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Hexachloro-1,3-butadiene | U | | 0.00796 | 0.0332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Isopropylbenzene | U | | 0.000564 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| p-Isopropyltoluene | U | | 0.00338 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 2-Butanone (MEK) | U | J4 | 0.0842 | 0.133 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Methylene Chloride | U | | 0.00881 | 0.0332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00302 | 0.0332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Methyl tert-butyl ether | U | | 0.000465 | 0.00133 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Naphthalene | U | | 0.00647 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| n-Propylbenzene | U | | 0.00126 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Styrene | U | | 0.000303 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00126 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000922 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00100 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Tetrachloroethene | U | | 0.00119 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Toluene | U | | 0.00172 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2,3-Trichlorobenzene | U | | 0.00973 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2,4-Trichlorobenzene | U | | 0.00584 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,1,1-Trichloroethane | U | | 0.00122 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,1,2-Trichloroethane | U | | 0.000793 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Trichloroethene | U | | 0.000775 | 0.00133 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Trichlorofluoromethane | U | | 0.00110 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2,3-Trichloropropane | U | | 0.00215 | 0.0166 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2,4-Trimethylbenzene | U | | 0.00210 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,2,3-Trimethylbenzene | U | | 0.00210 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| 1,3,5-Trimethylbenzene | U | | 0.00265 | 0.00663 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Vinyl chloride | U | | 0.00153 | 0.00332 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| Xylenes, Total | 0.00145 | J | 0.00117 | 0.00863 | 1.15 | 05/30/2024 15:16 | WG2295400 |
| *(S) Toluene-d8* | *98.6* | | | *75.0-131* | | *05/30/2024 15:16* | WG2295400 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *05/30/2024 15:16* | WG2295400 |
| *(S) 1,2-Dichloroethane-d4* | *92.9* | | | *70.0-130* | | *05/30/2024 15:16* | WG2295400 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | T8 | 79.3 | 433 | 100 | 06/06/2024 19:13 | WG2299534 |
| C22-C32 Hydrocarbons | 685 | T8 | 144 | 433 | 100 | 06/06/2024 19:13 | WG2299534 |
| C32-C40 Hydrocarbons | 895 | T8 | 144 | 433 | 100 | 06/06/2024 19:13 | WG2299534 |
| *(S) o-Terphenyl* | *79.7* | J7 | | *18.0-148* | | *06/06/2024 19:13* | WG2299534 |

**Sample Narrative:**

L1739342-26 WG2299534: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0583 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Acenaphthylene | U | | 0.0508 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Anthracene | U | | 0.0642 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Benzidine | U | | 0.677 | 18.1 | 10 | 05/31/2024 07:10 | WG2295242 |
| Benzo(a)anthracene | U | | 0.0635 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.0672 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.0641 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.0659 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Benzo(a)pyrene | U | | 0.0670 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.108 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.119 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.156 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.127 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.0633 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.126 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Chrysene | U | | 0.0716 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0999 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.107 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.109 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.107 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.133 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.103 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.118 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Fluoranthene | U | | 0.0650 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Fluorene | U | | 0.0587 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Hexachlorobenzene | U | | 0.128 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.121 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.189 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Hexachloroethane | U | | 0.142 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.102 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Isophorone | U | | 0.110 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Naphthalene | U | | 0.0905 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Nitrobenzene | U | | 0.126 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.535 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.273 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.120 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Phenanthrene | U | | 0.0715 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.113 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.457 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.123 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Diethyl phthalate | U | | 0.119 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Dimethyl phthalate | U | | 0.764 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.244 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Pyrene | U | | 0.0701 | 0.360 | 10 | 05/31/2024 07:10 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.113 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.117 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2-Chlorophenol | U | | 0.119 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.105 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0942 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.817 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.843 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2-Nitrophenol | U | | 0.129 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 4-Nitrophenol | U | | 0.113 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Pentachlorophenol | U | | 0.0970 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| Phenol | U | | 0.145 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.116 | 3.60 | 10 | 05/31/2024 07:10 | WG2295242 |
| *(S) 2-Fluorophenol* | *85.7* | | | *12.0-120* | | *05/31/2024 07:10* | WG2295242 |
| *(S) Phenol-d5* | *81.0* | | | *10.0-120* | | *05/31/2024 07:10* | WG2295242 |
| *(S) Nitrobenzene-d5* | *68.4* | | | *10.0-122* | | *05/31/2024 07:10* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *79.2* | | | *15.0-120* | | *05/31/2024 07:10* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *73.0* | | | *10.0-127* | | *05/31/2024 07:10* | WG2295242 |
| *(S) p-Terphenyl-d14* | *90.1* | | | *10.0-120* | | *05/31/2024 07:10* | WG2295242 |

**Sample Narrative:**

L1739342-26 WG2295242: Dilution due to matrix impact during extract concentration procedure.

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.9 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0301 | J | 0.0200 | 0.0445 | 1 | 05/30/2024 15:25 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.605 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| Arsenic | 3.76 | | 0.576 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| Barium | 67.3 | | 0.0947 | 0.556 | 1 | 06/01/2024 13:50 | WG2295060 |
| Beryllium | 0.294 | | 0.0350 | 0.222 | 1 | 06/01/2024 13:50 | WG2295060 |
| Cadmium | U | | 0.0524 | 0.556 | 1 | 06/01/2024 13:50 | WG2295060 |
| Chromium | 17.7 | | 0.148 | 1.11 | 1 | 06/01/2024 13:50 | WG2295060 |
| Cobalt | 5.91 | | 0.0902 | 1.11 | 1 | 06/01/2024 13:50 | WG2295060 |
| Copper | 16.0 | | 0.445 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| Lead | 12.7 | | 0.231 | 0.556 | 1 | 06/01/2024 13:50 | WG2295060 |
| Molybdenum | 0.143 | J | 0.121 | 0.556 | 1 | 06/01/2024 13:50 | WG2295060 |
| Nickel | 23.4 | | 0.147 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| Selenium | U | | 0.849 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| Silver | U | | 0.141 | 1.11 | 1 | 06/01/2024 13:50 | WG2295060 |
| Thallium | 1.28 | J | 0.438 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| Vanadium | 20.2 | | 0.563 | 2.22 | 1 | 06/01/2024 13:50 | WG2295060 |
| Zinc | 36.1 | | 0.925 | 5.56 | 1 | 06/01/2024 13:50 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.83 | B J | 1.10 | 3.32 | 27.3 | 05/29/2024 18:41 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *05/29/2024 18:41* | WG2294990 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | U | | 81.5 | 445 | 100 | 05/30/2024 19:54 | WG2295238 |
| C22-C32 Hydrocarbons | 784 | | 148 | 445 | 100 | 05/30/2024 19:54 | WG2295238 |
| C32-C40 Hydrocarbons | 1090 | | 148 | 445 | 100 | 05/30/2024 19:54 | WG2295238 |
| *(S) o-Terphenyl* | *88.7* | J7 | | *18.0-148* | | *05/30/2024 19:54* | WG2295238 |

**Sample Narrative:**

L1739342-27 WG2295238: Cannot run at lower dilution due to viscosity of extract.

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0599 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Acenaphthylene | U | | 0.0521 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Anthracene | U | | 0.0659 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Benzidine | U | | 0.696 | 18.6 | 10 | 05/31/2024 07:31 | WG2295242 |
| Benzo(a)anthracene | U | | 0.0653 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.0690 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(k)fluoranthene | U | | 0.0658 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.0677 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Benzo(a)pyrene | U | | 0.0688 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.111 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.122 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.160 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.130 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.0650 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.129 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Chrysene | U | | 0.0736 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.103 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.110 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.112 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.110 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.137 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.106 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.121 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Fluoranthene | U | | 0.0668 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Fluorene | U | | 0.0603 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Hexachlorobenzene | U | | 0.131 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.125 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.195 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Hexachloroethane | U | | 0.146 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.105 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Isophorone | U | | 0.113 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Naphthalene | U | | 0.0929 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Nitrobenzene | U | | 0.129 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.549 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.280 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.123 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Phenanthrene | U | | 0.0735 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.116 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.469 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.127 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Diethyl phthalate | U | | 0.122 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Dimethyl phthalate | U | | 0.785 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.250 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Pyrene | U | | 0.0720 | 0.370 | 10 | 05/31/2024 07:31 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.116 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.120 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2-Chlorophenol | U | | 0.122 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.108 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0967 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.839 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.866 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2-Nitrophenol | U | | 0.132 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 4-Nitrophenol | U | | 0.116 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Pentachlorophenol | U | | 0.0996 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| Phenol | U | | 0.149 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.119 | 3.70 | 10 | 05/31/2024 07:31 | WG2295242 |
| *(S) 2-Fluorophenol* | *84.8* | | | *12.0-120* | | *05/31/2024 07:31* | WG2295242 |
| *(S) Phenol-d5* | *75.8* | | | *10.0-120* | | *05/31/2024 07:31* | WG2295242 |
| *(S) Nitrobenzene-d5* | *63.3* | | | *10.0-122* | | *05/31/2024 07:31* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *72.9* | | | *15.0-120* | | *05/31/2024 07:31* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *63.6* | | | *10.0-127* | | *05/31/2024 07:31* | WG2295242 |
| *(S) p-Terphenyl-d14* | *84.6* | | | *10.0-120* | | *05/31/2024 07:31* | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

**Sample Narrative:**

L1739342-27 WG2295242: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.1 | | 1 | 06/04/2024 14:49 | WG2298380 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.94 | B J T8 | 1.17 | 3.52 | 31 | 06/05/2024 02:02 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/05/2024 02:02* | WG2298546 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | U | J6 T8 | 78.7 | 430 | 100 | 06/06/2024 19:28 | WG2299534 |
| C22-C32 Hydrocarbons | 1060 | T8 V | 143 | 430 | 100 | 06/06/2024 19:28 | WG2299534 |
| C32-C40 Hydrocarbons | 1340 | T8 | 143 | 430 | 100 | 06/06/2024 19:28 | WG2299534 |
| *(S) o-Terphenyl* | *72.8* | J7 | | *18.0-148* | | *06/06/2024 19:28* | WG2299534 |

**Sample Narrative:**

L1739342-28 WG2299534: Cannot run at lower dilution due to viscosity of extract

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 79.7 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.97 | B J | 1.27 | 3.82 | 25 | 05/29/2024 19:00 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.4* | | | *77.0-120* | | *05/29/2024 19:00* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0558 | 0.0765 | 1 | 05/30/2024 01:57 | WG2295165 |
| Acrylonitrile | U | | 0.00552 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| Benzene | U | | 0.000714 | 0.00153 | 1 | 05/30/2024 01:57 | WG2295165 |
| Bromobenzene | U | | 0.00138 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| Bromodichloromethane | U | | 0.00111 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Bromoform | U | | 0.00179 | 0.0382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Bromomethane | U | | 0.00301 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| n-Butylbenzene | U | | 0.00803 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| sec-Butylbenzene | U | | 0.00440 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| tert-Butylbenzene | U | | 0.00298 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| Carbon tetrachloride | U | | 0.00137 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| Chlorobenzene | U | | 0.000321 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Chlorodibromomethane | U | | 0.000936 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Chloroethane | U | | 0.00260 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| Chloroform | U | | 0.00157 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Chloromethane | U | | 0.00665 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000688 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00596 | 0.0382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000991 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Dibromomethane | U | | 0.00115 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000650 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000917 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00246 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000751 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000992 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000927 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00159 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00217 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00124 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000766 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00116 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00174 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00211 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Di-isopropyl ether | U | | 0.000627 | 0.00153 | 1 | 05/30/2024 01:57 | WG2295165 |
| Ethylbenzene | U | | 0.00113 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00917 | 0.0382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Isopropylbenzene | U | | 0.000650 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00390 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0971 | 0.153 | 1 | 05/30/2024 01:57 | WG2295165 |
| Methylene Chloride | U | | 0.0102 | 0.0382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00349 | 0.0382 | 1 | 05/30/2024 01:57 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000535 | 0.00153 | 1 | 05/30/2024 01:57 | WG2295165 |
| Naphthalene | U | | 0.00746 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| n-Propylbenzene | U | | 0.00145 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| Styrene | U | | 0.000350 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00145 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Tetrachloroethene | U | | 0.00137 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Toluene | 0.00295 | J | 0.00199 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00673 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000913 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Trichloroethene | U | | 0.000893 | 0.00153 | 1 | 05/30/2024 01:57 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00248 | 0.0191 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00242 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00242 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00306 | 0.00765 | 1 | 05/30/2024 01:57 | WG2295165 |
| Vinyl chloride | U | | 0.00177 | 0.00382 | 1 | 05/30/2024 01:57 | WG2295165 |
| Xylenes, Total | U | | 0.00135 | 0.00994 | 1 | 05/30/2024 01:57 | WG2295165 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *05/30/2024 01:57* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *99.7* | | | *67.0-138* | | *05/30/2024 01:57* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *86.6* | | | *70.0-130* | | *05/30/2024 01:57* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.67 | J | 0.920 | 5.02 | 1 | 05/30/2024 17:16 | WG2295238 |
| C22-C32 Hydrocarbons | 6.09 | | 1.67 | 5.02 | 1 | 05/30/2024 17:16 | WG2295238 |
| C32-C40 Hydrocarbons | 7.19 | | 1.67 | 5.02 | 1 | 05/30/2024 17:16 | WG2295238 |
| *(S) o-Terphenyl* | *35.8* | | | *18.0-148* | | *05/30/2024 17:16* | WG2295238 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.0 | | 1 | 05/29/2024 15:29 | WG2295025 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0487 | 0.0667 | 1 | 05/30/2024 02:17 | WG2295165 |
| Acrylonitrile | U | | 0.00482 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| Benzene | U | | 0.000623 | 0.00133 | 1 | 05/30/2024 02:17 | WG2295165 |
| Bromobenzene | U | | 0.00120 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| Bromodichloromethane | U | | 0.000968 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Bromoform | U | | 0.00156 | 0.0334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Bromomethane | U | | 0.00263 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| n-Butylbenzene | U | | 0.00701 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| sec-Butylbenzene | U | | 0.00384 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| tert-Butylbenzene | U | | 0.00260 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| Carbon tetrachloride | U | | 0.00120 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| Chlorobenzene | U | | 0.000280 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Chlorodibromomethane | U | | 0.000817 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Chloroethane | U | | 0.00227 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| Chloroform | U | | 0.00137 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Chloromethane | U | | 0.00581 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00115 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000601 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00521 | 0.0334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000865 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Dibromomethane | U | | 0.00100 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000567 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000801 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.000934 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00215 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000655 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000866 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000809 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.000980 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00139 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00190 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00108 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000669 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00101 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00152 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00184 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Di-isopropyl ether | U | | 0.000547 | 0.00133 | 1 | 05/30/2024 02:17 | WG2295165 |
| Ethylbenzene | U | | 0.000984 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00801 | 0.0334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Isopropylbenzene | U | | 0.000567 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00340 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0848 | 0.133 | 1 | 05/30/2024 02:17 | WG2295165 |
| Methylene Chloride | U | | 0.00886 | 0.0334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00304 | 0.0334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000467 | 0.00133 | 1 | 05/30/2024 02:17 | WG2295165 |
| Naphthalene | U | | 0.00651 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| n-Propylbenzene | U | | 0.00127 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| Styrene | U | | 0.000306 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00127 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000928 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00101 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Tetrachloroethene | U | | 0.00120 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Toluene | U | | 0.00174 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.00978 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00587 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00123 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000797 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Trichloroethene | U | | 0.000780 | 0.00133 | 1 | 05/30/2024 02:17 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00110 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00216 | 0.0167 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00211 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00211 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00267 | 0.00667 | 1 | 05/30/2024 02:17 | WG2295165 |
| Vinyl chloride | U | | 0.00155 | 0.00334 | 1 | 05/30/2024 02:17 | WG2295165 |
| Xylenes, Total | U | | 0.00117 | 0.00868 | 1 | 05/30/2024 02:17 | WG2295165 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *05/30/2024 02:17* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *96.1* | | | *67.0-138* | | *05/30/2024 02:17* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *85.3* | | | *70.0-130* | | *05/30/2024 02:17* | WG2295165 |

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.6 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.109 | | 0.0196 | 0.0437 | 1 | 05/30/2024 15:27 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.50 | J | 0.594 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| Arsenic | 3.60 | | 0.565 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| Barium | 91.3 | | 0.0930 | 0.546 | 1 | 06/01/2024 13:58 | WG2295060 |
| Beryllium | 0.250 | | 0.0344 | 0.218 | 1 | 06/01/2024 13:58 | WG2295060 |
| Cadmium | 0.0597 | B J | 0.0514 | 0.546 | 1 | 06/01/2024 13:58 | WG2295060 |
| Chromium | 16.2 | | 0.145 | 1.09 | 1 | 06/01/2024 13:58 | WG2295060 |
| Cobalt | 7.65 | | 0.0885 | 1.09 | 1 | 06/01/2024 13:58 | WG2295060 |
| Copper | 20.8 | | 0.437 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| Lead | 29.0 | | 0.227 | 0.546 | 1 | 06/01/2024 13:58 | WG2295060 |
| Molybdenum | 0.346 | J | 0.119 | 0.546 | 1 | 06/01/2024 13:58 | WG2295060 |
| Nickel | 25.7 | | 0.144 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| Selenium | U | | 0.834 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| Silver | U | | 0.139 | 1.09 | 1 | 06/01/2024 13:58 | WG2295060 |
| Thallium | 1.75 | J | 0.430 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| Vanadium | 31.0 | | 0.552 | 2.18 | 1 | 06/01/2024 13:58 | WG2295060 |
| Zinc | 54.2 | | 0.908 | 5.46 | 1 | 06/01/2024 13:58 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.08 | B J T8 | 1.01 | 3.04 | 25 | 06/05/2024 02:25 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/05/2024 02:25* | WG2298546 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0129 | 0.0371 | 1 | 05/31/2024 02:37 | WG2295241 |
| PCB 1221 | U | | 0.0129 | 0.0371 | 1 | 05/31/2024 02:37 | WG2295241 |
| PCB 1232 | U | | 0.0129 | 0.0371 | 1 | 05/31/2024 02:37 | WG2295241 |
| PCB 1242 | U | | 0.0129 | 0.0371 | 1 | 05/31/2024 02:37 | WG2295241 |
| PCB 1248 | U | | 0.00805 | 0.0186 | 1 | 05/31/2024 02:37 | WG2295241 |
| PCB 1254 | U | | 0.00805 | 0.0186 | 1 | 05/31/2024 02:37 | WG2295241 |
| PCB 1260 | U | | 0.00805 | 0.0186 | 1 | 05/31/2024 02:37 | WG2295241 |
| *(S) Decachlorobiphenyl* | *57.1* | | | *10.0-135* | | *05/31/2024 02:37* | WG2295241 |
| *(S) Tetrachloro-m-xylene* | *61.0* | | | *10.0-139* | | *05/31/2024 02:37* | WG2295241 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0588 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Acenaphthylene | U | | 0.0512 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Anthracene | U | | 0.0647 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Benzidine | U | | 0.683 | 18.2 | 10 | 05/31/2024 07:51 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | U | | 0.0641 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.0678 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.0646 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.0665 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Benzo(a)pyrene | U | | 0.0676 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.109 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.120 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.157 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.128 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.0638 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.127 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Chrysene | U | | 0.0723 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.101 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.108 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.110 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.108 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.134 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.104 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.119 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Fluoranthene | U | | 0.0656 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Fluorene | U | | 0.0592 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Hexachlorobenzene | U | | 0.129 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.122 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.191 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Hexachloroethane | U | | 0.143 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.103 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Isophorone | U | | 0.111 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Naphthalene | U | | 0.0912 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Nitrobenzene | U | | 0.127 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.539 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.275 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.121 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Phenanthrene | U | | 0.0721 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.114 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.461 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.124 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Diethyl phthalate | U | | 0.120 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Dimethyl phthalate | U | | 0.771 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.246 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Pyrene | U | | 0.0707 | 0.363 | 10 | 05/31/2024 07:51 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.114 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 4-Chloro-3-methylphenol | U | | 0.118 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2-Chlorophenol | U | | 0.120 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.106 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0950 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.824 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.850 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2-Nitrophenol | U | | 0.130 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 4-Nitrophenol | U | | 0.114 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Pentachlorophenol | U | | 0.0978 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| Phenol | U | | 0.146 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.117 | 3.63 | 10 | 05/31/2024 07:51 | WG2295242 |
| *(S) 2-Fluorophenol* | *79.8* | | | *12.0-120* | | *05/31/2024 07:51* | WG2295242 |
| *(S) Phenol-d5* | *76.3* | | | *10.0-120* | | *05/31/2024 07:51* | WG2295242 |
| *(S) Nitrobenzene-d5* | *63.9* | | | *10.0-122* | | *05/31/2024 07:51* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *73.8* | | | *15.0-120* | | *05/31/2024 07:51* | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) 2,4,6-Tribromophenol* | *65.7* | | | *10.0-127* | | *05/31/2024 07:51* | WG2295242 |
| *(S) p-Terphenyl-d14* | *79.8* | | | *10.0-120* | | *05/31/2024 07:51* | WG2295242 |

**Sample Narrative:**

L1739342-32 WG2295242: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.6 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0708 | | 0.0194 | 0.0432 | 1 | 05/30/2024 15:34 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 0.741 | J | 0.587 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| Arsenic | 3.22 | | 0.559 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| Barium | 104 | | 0.0920 | 0.540 | 1 | 06/01/2024 13:59 | WG2295060 |
| Beryllium | 0.158 | J | 0.0340 | 0.216 | 1 | 06/01/2024 13:59 | WG2295060 |
| Cadmium | U | | 0.0508 | 0.540 | 1 | 06/01/2024 13:59 | WG2295060 |
| Chromium | 15.4 | | 0.144 | 1.08 | 1 | 06/01/2024 13:59 | WG2295060 |
| Cobalt | 5.67 | | 0.0875 | 1.08 | 1 | 06/01/2024 13:59 | WG2295060 |
| Copper | 14.8 | | 0.432 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| Lead | 16.6 | | 0.225 | 0.540 | 1 | 06/01/2024 13:59 | WG2295060 |
| Molybdenum | 0.287 | J | 0.118 | 0.540 | 1 | 06/01/2024 13:59 | WG2295060 |
| Nickel | 27.1 | | 0.142 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| Selenium | U | | 0.825 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| Silver | U | | 0.137 | 1.08 | 1 | 06/01/2024 13:59 | WG2295060 |
| Thallium | 1.04 | J | 0.425 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| Vanadium | 20.1 | | 0.546 | 2.16 | 1 | 06/01/2024 13:59 | WG2295060 |
| Zinc | 44.3 | | 0.898 | 5.40 | 1 | 06/01/2024 13:59 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.13 | B J T8 | 1.00 | 3.02 | 25 | 06/05/2024 02:48 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *06/05/2024 02:48* | WG2298546 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0436 | 0.0597 | 1 | 05/30/2024 02:38 | WG2295165 |
| Acrylonitrile | U | | 0.00431 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| Benzene | U | | 0.000557 | 0.00119 | 1 | 05/30/2024 02:38 | WG2295165 |
| Bromobenzene | U | | 0.00107 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| Bromodichloromethane | U | | 0.000865 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Bromoform | U | | 0.00140 | 0.0298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Bromomethane | U | | 0.00235 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| n-Butylbenzene | U | | 0.00627 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| sec-Butylbenzene | U | | 0.00344 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| tert-Butylbenzene | U | | 0.00233 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| Carbon tetrachloride | U | | 0.00107 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| Chlorobenzene | U | | 0.000251 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Chlorodibromomethane | U | | 0.000730 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Chloroethane | U | | 0.00203 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| Chloroform | U | | 0.00123 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Chloromethane | U | | 0.00519 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00103 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000537 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00465 | 0.0298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000773 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Dibromomethane | U | | 0.000895 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000507 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000716 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.000836 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00192 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000586 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000775 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000723 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.000876 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00124 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00169 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.000966 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000598 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.000904 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00136 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00165 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Di-isopropyl ether | U | | 0.000489 | 0.00119 | 1 | 05/30/2024 02:38 | WG2295165 |
| Ethylbenzene | U | | 0.000880 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00716 | 0.0298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Isopropylbenzene | U | | 0.000507 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00304 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0758 | 0.119 | 1 | 05/30/2024 02:38 | WG2295165 |
| Methylene Chloride | U | | 0.00793 | 0.0298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00272 | 0.0298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000418 | 0.00119 | 1 | 05/30/2024 02:38 | WG2295165 |
| Naphthalene | U | | 0.00582 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| n-Propylbenzene | U | | 0.00113 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| Styrene | U | | 0.000273 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00113 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000830 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000900 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Tetrachloroethene | U | | 0.00107 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Toluene | U | | 0.00155 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.00875 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00525 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00110 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000713 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Trichloroethene | U | | 0.000697 | 0.00119 | 1 | 05/30/2024 02:38 | WG2295165 |
| Trichlorofluoromethane | U | | 0.000987 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00193 | 0.0149 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00189 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00189 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00239 | 0.00597 | 1 | 05/30/2024 02:38 | WG2295165 |
| Vinyl chloride | U | | 0.00138 | 0.00298 | 1 | 05/30/2024 02:38 | WG2295165 |
| Xylenes, Total | U | | 0.00105 | 0.00776 | 1 | 05/30/2024 02:38 | WG2295165 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *05/30/2024 02:38* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *67.0-138* | | *05/30/2024 02:38* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *88.3* | | | *70.0-130* | | *05/30/2024 02:38* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | T8 | 79.1 | 432 | 100 | 06/06/2024 18:16 | WG2299534 |
| C22-C32 Hydrocarbons | 773 | T8 | 144 | 432 | 100 | 06/06/2024 18:16 | WG2299534 |
| C32-C40 Hydrocarbons | 999 | T8 | 144 | 432 | 100 | 06/06/2024 18:16 | WG2299534 |
| *(S) o-Terphenyl* | *91.9* | J7 | | *18.0-148* | | *06/06/2024 18:16* | WG2299534 |

Sample Narrative:

L1739342-33 WG2299534: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0582 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Acenaphthylene | U | | 0.0506 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Anthracene | U | | 0.0640 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Benzidine | U | | 0.676 | 18.0 | 10 | 05/31/2024 08:12 | WG2295242 |
| Benzo(a)anthracene | U | | 0.0634 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Benzo(b)fluoranthene | U | | 0.0670 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Benzo(k)fluoranthene | U | | 0.0639 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Benzo(g,h,i)perylene | U | | 0.0657 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Benzo(a)pyrene | U | | 0.0668 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Bis(2-chlorethoxy)methane | U | | 0.108 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Bis(2-chloroethyl)ether | U | | 0.119 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.155 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 4-Bromophenyl-phenylether | U | | 0.126 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2-Chloronaphthalene | U | | 0.0631 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| 4-Chlorophenyl-phenylether | U | | 0.125 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Chrysene | U | | 0.0715 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Dibenz(a,h)anthracene | U | | 0.0996 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| 1,2-Dichlorobenzene | U | | 0.107 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 1,3-Dichlorobenzene | U | | 0.109 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 1,4-Dichlorobenzene | U | | 0.107 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 3,3-Dichlorobenzidine | U | | 0.133 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2,4-Dinitrotoluene | U | | 0.103 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2,6-Dinitrotoluene | U | | 0.118 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Fluoranthene | U | | 0.0649 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Fluorene | U | | 0.0585 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Hexachlorobenzene | U | | 0.127 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Hexachloro-1,3-butadiene | U | | 0.121 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Hexachlorocyclopentadiene | U | | 0.189 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Hexachloroethane | U | | 0.141 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Indeno(1,2,3-cd)pyrene | U | | 0.102 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Isophorone | U | | 0.110 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Naphthalene | U | | 0.0902 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Nitrobenzene | U | | 0.125 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| n-Nitrosodimethylamine | U | | 0.533 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| n-Nitrosodiphenylamine | U | | 0.272 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| n-Nitrosodi-n-propylamine | U | | 0.120 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Phenanthrene | U | | 0.0713 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| Benzylbutyl phthalate | U | | 0.112 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Bis(2-ethylhexyl)phthalate | U | | 0.455 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Di-n-butyl phthalate | U | | 0.123 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Diethyl phthalate | U | | 0.119 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Dimethyl phthalate | U | | 0.762 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Di-n-octyl phthalate | U | | 0.243 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Pyrene | U | | 0.0699 | 0.359 | 10 | 05/31/2024 08:12 | WG2295242 |
| 1,2,4-Trichlorobenzene | U | | 0.112 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.117 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2-Chlorophenol | U | | 0.119 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2,4-Dichlorophenol | U | | 0.105 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2,4-Dimethylphenol | U | | 0.0939 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 4,6-Dinitro-2-methylphenol | U | | 0.815 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2,4-Dinitrophenol | U | | 0.841 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2-Nitrophenol | U | | 0.128 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 4-Nitrophenol | U | | 0.112 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Pentachlorophenol | U | | 0.0967 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| Phenol | U | | 0.145 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| 2,4,6-Trichlorophenol | U | | 0.115 | 3.59 | 10 | 05/31/2024 08:12 | WG2295242 |
| *(S) 2-Fluorophenol* | *74.1* | | | *12.0-120* | | *05/31/2024 08:12* | WG2295242 |
| *(S) Phenol-d5* | *73.0* | | | *10.0-120* | | *05/31/2024 08:12* | WG2295242 |
| *(S) Nitrobenzene-d5* | *69.2* | | | *10.0-122* | | *05/31/2024 08:12* | WG2295242 |
| *(S) 2-Fluorobiphenyl* | *72.3* | | | *15.0-120* | | *05/31/2024 08:12* | WG2295242 |
| *(S) 2,4,6-Tribromophenol* | *59.6* | | | *10.0-127* | | *05/31/2024 08:12* | WG2295242 |
| *(S) p-Terphenyl-d14* | *85.1* | | | *10.0-120* | | *05/31/2024 08:12* | WG2295242 |

**Sample Narrative:**

L1739342-33 WG2295242: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 94.3 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.101 | | 0.0191 | 0.0424 | 1 | 05/30/2024 15:37 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 2.15 | | 0.577 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| Arsenic | 4.48 | | 0.549 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| Barium | 137 | | 0.0904 | 0.530 | 1 | 06/01/2024 14:01 | WG2295060 |
| Beryllium | 0.205 | J | 0.0334 | 0.212 | 1 | 06/01/2024 14:01 | WG2295060 |
| Cadmium | 0.121 | B J | 0.0500 | 0.530 | 1 | 06/01/2024 14:01 | WG2295060 |
| Chromium | 19.8 | | 0.141 | 1.06 | 1 | 06/01/2024 14:01 | WG2295060 |
| Cobalt | 6.52 | | 0.0860 | 1.06 | 1 | 06/01/2024 14:01 | WG2295060 |
| Copper | 22.2 | | 0.424 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| Lead | 23.3 | | 0.221 | 0.530 | 1 | 06/01/2024 14:01 | WG2295060 |
| Molybdenum | 0.825 | | 0.116 | 0.530 | 1 | 06/01/2024 14:01 | WG2295060 |
| Nickel | 30.9 | | 0.140 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| Selenium | U | | 0.810 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| Silver | U | | 0.135 | 1.06 | 1 | 06/01/2024 14:01 | WG2295060 |
| Thallium | 1.44 | J | 0.418 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| Vanadium | 27.6 | | 0.537 | 2.12 | 1 | 06/01/2024 14:01 | WG2295060 |
| Zinc | 75.9 | | 0.882 | 5.30 | 1 | 06/01/2024 14:01 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.10 | J | 0.976 | 2.94 | 26.3 | 05/30/2024 12:56 | WG2295424 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *05/30/2024 12:56* | WG2295424 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0412 | 0.0564 | 1 | 05/30/2024 15:35 | WG2295400 |
| Acrylonitrile | U | | 0.00407 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| Benzene | 0.000627 | J | 0.000527 | 0.00113 | 1 | 05/30/2024 15:35 | WG2295400 |
| Bromobenzene | U | | 0.00102 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| Bromodichloromethane | U | | 0.000818 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Bromoform | U | | 0.00132 | 0.0282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Bromomethane | U | | 0.00222 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| n-Butylbenzene | U | | 0.00592 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| sec-Butylbenzene | U | | 0.00325 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| tert-Butylbenzene | U | | 0.00220 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| Carbon tetrachloride | U | | 0.00101 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| Chlorobenzene | U | | 0.000237 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Chlorodibromomethane | U | | 0.000690 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Chloroethane | U | | 0.00192 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| Chloroform | U | | 0.00116 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Chloromethane | U | | 0.00491 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| 2-Chlorotoluene | U | | 0.000976 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 4-Chlorotoluene | U | | 0.000508 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00440 | 0.0282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2-Dibromoethane | U | | 0.000731 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Dibromomethane | U | | 0.000846 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2-Dichlorobenzene | U | | 0.000480 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,3-Dichlorobenzene | U | | 0.000677 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,4-Dichlorobenzene | U | | 0.000790 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| Dichlorodifluoromethane | U | | 0.00182 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,1-Dichloroethane | U | | 0.000554 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2-Dichloroethane | U | | 0.000732 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,1-Dichloroethene | U | | 0.000684 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| cis-1,2-Dichloroethene | U | | 0.000828 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| trans-1,2-Dichloroethene | U | | 0.00117 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2-Dichloropropane | U | | 0.00160 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,1-Dichloropropene | U | | 0.000913 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,3-Dichloropropane | U | | 0.000565 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| cis-1,3-Dichloropropene | U | | 0.000854 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| trans-1,3-Dichloropropene | U | | 0.00129 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 2,2-Dichloropropane | U | | 0.00156 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Di-isopropyl ether | U | | 0.000463 | 0.00113 | 1 | 05/30/2024 15:35 | WG2295400 |
| Ethylbenzene | U | | 0.000832 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Hexachloro-1,3-butadiene | U | | 0.00677 | 0.0282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Isopropylbenzene | U | | 0.000480 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| p-Isopropyltoluene | U | | 0.00288 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 2-Butanone (MEK) | U | J4 | 0.0716 | 0.113 | 1 | 05/30/2024 15:35 | WG2295400 |
| Methylene Chloride | U | | 0.00749 | 0.0282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00257 | 0.0282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Methyl tert-butyl ether | U | | 0.000395 | 0.00113 | 1 | 05/30/2024 15:35 | WG2295400 |
| Naphthalene | U | | 0.00551 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| n-Propylbenzene | U | | 0.00107 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| Styrene | U | | 0.000258 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00107 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000784 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000851 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Tetrachloroethene | U | | 0.00101 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Toluene | 0.00271 | J | 0.00147 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2,3-Trichlorobenzene | U | | 0.00827 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2,4-Trichlorobenzene | U | | 0.00496 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,1,1-Trichloroethane | U | | 0.00104 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,1,2-Trichloroethane | U | | 0.000674 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Trichloroethene | U | | 0.000659 | 0.00113 | 1 | 05/30/2024 15:35 | WG2295400 |
| Trichlorofluoromethane | U | | 0.000933 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2,3-Trichloropropane | U | | 0.00183 | 0.0141 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2,4-Trimethylbenzene | U | | 0.00178 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,2,3-Trimethylbenzene | U | | 0.00178 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| 1,3,5-Trimethylbenzene | U | | 0.00226 | 0.00564 | 1 | 05/30/2024 15:35 | WG2295400 |
| Vinyl chloride | U | | 0.00131 | 0.00282 | 1 | 05/30/2024 15:35 | WG2295400 |
| Xylenes, Total | 0.00336 | J | 0.000993 | 0.00733 | 1 | 05/30/2024 15:35 | WG2295400 |
| *(S) Toluene-d8* | *97.8* | | | *75.0-131* | | *05/30/2024 15:35* | WG2295400 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *05/30/2024 15:35* | WG2295400 |
| *(S) 1,2-Dichloroethane-d4* | *99.8* | | | *70.0-130* | | *05/30/2024 15:35* | WG2295400 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 156 | 848 | 200 | 05/31/2024 11:54 | WG2295239 |
| C22-C32 Hydrocarbons | 2080 | | 282 | 848 | 200 | 05/31/2024 11:54 | WG2295239 |
| C32-C40 Hydrocarbons | 2180 | | 282 | 848 | 200 | 05/31/2024 11:54 | WG2295239 |
| *(S) o-Terphenyl* | *115* | J7 | | *18.0-148* | | *05/31/2024 11:54* | WG2295239 |

Sample Narrative:

L1739342-34 WG2295239: Cannot run at lower dilution due to viscosity of extract.

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.115 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Acenaphthylene | U | | 0.0995 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Anthracene | U | | 0.126 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Benzidine | U | | 1.33 | 35.4 | 20 | 06/01/2024 00:50 | WG2295243 |
| Benzo(a)anthracene | U | | 0.124 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Benzo(b)fluoranthene | 0.157 | J | 0.132 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Benzo(k)fluoranthene | U | | 0.125 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Benzo(g,h,i)perylene | 0.147 | J | 0.129 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Benzo(a)pyrene | 0.137 | J | 0.132 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.212 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.233 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.305 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.248 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.124 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.246 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Chrysene | U | | 0.140 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Dibenz(a,h)anthracene | U | | 0.196 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.209 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.214 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.210 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.261 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.203 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.231 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Fluoranthene | U | | 0.127 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Fluorene | U | | 0.115 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Hexachlorobenzene | U | | 0.250 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.238 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.371 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Hexachloroethane | U | | 0.278 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | U | | 0.199 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Isophorone | U | | 0.216 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Naphthalene | U | | 0.177 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Nitrobenzene | U | | 0.246 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| n-Nitrosodimethylamine | U | | 1.05 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.535 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.235 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Phenanthrene | U | | 0.140 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.221 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.895 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.242 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Diethyl phthalate | U | | 0.233 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Dimethyl phthalate | U | | 1.50 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.477 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Pyrene | U | | 0.138 | 0.706 | 20 | 06/01/2024 00:50 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.221 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.229 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2-Chlorophenol | U | | 0.233 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.206 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.185 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 1.60 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2,4-Dinitrophenol | U | | 1.65 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2-Nitrophenol | U | | 0.252 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 4-Nitrophenol | U | | 0.221 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Pentachlorophenol | U | | 0.190 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| Phenol | U | | 0.284 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.227 | 7.06 | 20 | 06/01/2024 00:50 | WG2295243 |
| *(S) 2-Fluorophenol* | *111* | J7 | | *12.0-120* | | *06/01/2024 00:50* | WG2295243 |
| *(S) Phenol-d5* | *99.1* | J7 | | *10.0-120* | | *06/01/2024 00:50* | WG2295243 |
| *(S) Nitrobenzene-d5* | *76.5* | J7 | | *10.0-122* | | *06/01/2024 00:50* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *100* | J7 | | *15.0-120* | | *06/01/2024 00:50* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *106* | J7 | | *10.0-127* | | *06/01/2024 00:50* | WG2295243 |
| *(S) p-Terphenyl-d14* | *105* | J7 | | *10.0-120* | | *06/01/2024 00:50* | WG2295243 |

**Sample Narrative:**

L1739342-34 WG2295243: Dilution due to matrix.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.3 | | 1 | 06/10/2024 16:19 | WG2302291 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.33 | B J T8 | 0.997 | 3.00 | 25 | 06/05/2024 03:11 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/05/2024 03:11* | WG2298546 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | U | T8 | 80.3 | 438 | 100 | 06/06/2024 20:11 | WG2299534 |
| C22-C32 Hydrocarbons | 1740 | T8 | 146 | 438 | 100 | 06/06/2024 20:11 | WG2299534 |
| C32-C40 Hydrocarbons | 1490 | T8 | 146 | 438 | 100 | 06/06/2024 20:11 | WG2299534 |
| *(S) o-Terphenyl* | *85.2* | J7 | | *18.0-148* | | *06/06/2024 20:11* | WG2299534 |

**Sample Narrative:**

L1739342-35 WG2299534: Cannot run at lower dilution due to viscosity of extract.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.0 | | 1 | 05/29/2024 15:29 | WG2295025 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.64 | B J | 1.45 | 4.38 | 28 | 05/29/2024 19:19 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.1* | | | *77.0-120* | | *05/29/2024 19:19* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0610 | J | 0.0583 | 0.0798 | 1 | 05/30/2024 02:58 | WG2295165 |
| Acrylonitrile | U | | 0.00576 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| Benzene | U | | 0.000746 | 0.00160 | 1 | 05/30/2024 02:58 | WG2295165 |
| Bromobenzene | U | | 0.00144 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| Bromodichloromethane | U | | 0.00116 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Bromoform | U | | 0.00187 | 0.0399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Bromomethane | U | | 0.00315 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| n-Butylbenzene | U | | 0.00838 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| sec-Butylbenzene | U | | 0.00460 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| tert-Butylbenzene | U | | 0.00311 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| Carbon tetrachloride | U | | 0.00143 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| Chlorobenzene | U | | 0.000335 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Chlorodibromomethane | U | | 0.000977 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Chloroethane | U | | 0.00271 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| Chloroform | U | | 0.00164 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Chloromethane | U | | 0.00694 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00138 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000718 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00623 | 0.0399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.00103 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Dibromomethane | U | | 0.00120 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000679 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000958 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.00112 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00257 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000784 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.00104 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000967 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.00117 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00166 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00227 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00129 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000800 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00121 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00182 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00220 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Di-isopropyl ether | U | | 0.000655 | 0.00160 | 1 | 05/30/2024 02:58 | WG2295165 |
| Ethylbenzene | U | | 0.00118 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00958 | 0.0399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Isopropylbenzene | U | | 0.000679 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00407 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.101 | 0.160 | 1 | 05/30/2024 02:58 | WG2295165 |
| Methylene Chloride | U | | 0.0106 | 0.0399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00364 | 0.0399 | 1 | 05/30/2024 02:58 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000559 | 0.00160 | 1 | 05/30/2024 02:58 | WG2295165 |
| Naphthalene | U | | 0.00779 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| n-Propylbenzene | U | | 0.00152 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| Styrene | U | | 0.000366 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00151 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00111 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00120 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Tetrachloroethene | U | | 0.00143 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Toluene | U | | 0.00208 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.0117 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00702 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00147 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000953 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Trichloroethene | U | | 0.000932 | 0.00160 | 1 | 05/30/2024 02:58 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00132 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00259 | 0.0200 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00252 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00252 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00319 | 0.00798 | 1 | 05/30/2024 02:58 | WG2295165 |
| Vinyl chloride | U | | 0.00185 | 0.00399 | 1 | 05/30/2024 02:58 | WG2295165 |
| Xylenes, Total | U | | 0.00140 | 0.0104 | 1 | 05/30/2024 02:58 | WG2295165 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *05/30/2024 02:58* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *96.3* | | | *67.0-138* | | *05/30/2024 02:58* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *86.5* | | | *70.0-130* | | *05/30/2024 02:58* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.25 | J | 0.952 | 5.19 | 1 | 05/30/2024 19:18 | WG2295239 |
| C22-C32 Hydrocarbons | 16.1 | | 1.73 | 5.19 | 1 | 05/30/2024 19:18 | WG2295239 |
| C32-C40 Hydrocarbons | 16.4 | | 1.73 | 5.19 | 1 | 05/30/2024 19:18 | WG2295239 |
| *(S) o-Terphenyl* | *31.2* | | | *18.0-148* | | *05/30/2024 19:18* | WG2295239 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.7 | | 1 | 05/30/2024 07:27 | WG2295026 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.132 | | 0.0194 | 0.0432 | 1 | 05/30/2024 15:39 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.64 | J | 0.587 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| Arsenic | 2.98 | | 0.559 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| Barium | 48.2 | | 0.0919 | 0.540 | 1 | 06/01/2024 14:03 | WG2295060 |
| Beryllium | 0.147 | J | 0.0340 | 0.216 | 1 | 06/01/2024 14:03 | WG2295060 |
| Cadmium | 0.0643 | B J | 0.0508 | 0.540 | 1 | 06/01/2024 14:03 | WG2295060 |
| Chromium | 9.41 | | 0.144 | 1.08 | 1 | 06/01/2024 14:03 | WG2295060 |
| Cobalt | 5.94 | | 0.0875 | 1.08 | 1 | 06/01/2024 14:03 | WG2295060 |
| Copper | 11.1 | | 0.432 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| Lead | 19.3 | | 0.224 | 0.540 | 1 | 06/01/2024 14:03 | WG2295060 |
| Molybdenum | 0.455 | J | 0.118 | 0.540 | 1 | 06/01/2024 14:03 | WG2295060 |
| Nickel | 12.4 | | 0.142 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| Selenium | U | | 0.825 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| Silver | U | | 0.137 | 1.08 | 1 | 06/01/2024 14:03 | WG2295060 |
| Thallium | 1.90 | J | 0.425 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| Vanadium | 22.0 | | 0.546 | 2.16 | 1 | 06/01/2024 14:03 | WG2295060 |
| Zinc | 52.1 | | 0.898 | 5.40 | 1 | 06/01/2024 14:03 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.65 | B J T8 | 1.12 | 3.36 | 29.3 | 06/05/2024 03:34 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/05/2024 03:34* | WG2298546 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | U | T8 | 79.1 | 432 | 100 | 06/07/2024 12:34 | WG2299534 |
| C22-C32 Hydrocarbons | 380 | J T8 | 144 | 432 | 100 | 06/07/2024 12:34 | WG2299534 |
| C32-C40 Hydrocarbons | 651 | T8 | 144 | 432 | 100 | 06/07/2024 12:34 | WG2299534 |
| *(S) o-Terphenyl* | *93.7* | J7 | | *18.0-148* | | *06/07/2024 12:34* | WG2299534 |

**Sample Narrative:**

L1739342-37 WG2299534: Cannot run at lower dilution due to viscosity of extract.

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0127 | 0.0367 | 1 | 05/31/2024 03:12 | WG2295241 |
| PCB 1221 | U | | 0.0127 | 0.0367 | 1 | 05/31/2024 03:12 | WG2295241 |
| PCB 1232 | U | | 0.0127 | 0.0367 | 1 | 05/31/2024 03:12 | WG2295241 |
| PCB 1242 | U | | 0.0127 | 0.0367 | 1 | 05/31/2024 03:12 | WG2295241 |
| PCB 1248 | U | | 0.00796 | 0.0183 | 1 | 05/31/2024 03:12 | WG2295241 |
| PCB 1254 | U | | 0.00796 | 0.0183 | 1 | 05/31/2024 03:12 | WG2295241 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1260 | U | | 0.00796 | 0.0183 | 1 | 05/31/2024 03:12 | WG2295241 |
| *(S) Decachlorobiphenyl* | *75.7* | | | *10.0-135* | | *05/31/2024 03:12* | WG2295241 |
| *(S) Tetrachloro-m-xylene* | *63.8* | | | *10.0-139* | | *05/31/2024 03:12* | WG2295241 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0582 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Acenaphthylene | U | | 0.0506 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Anthracene | U | | 0.0640 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Benzidine | U | | 0.676 | 18.0 | 10 | 06/02/2024 10:38 | WG2295243 |
| Benzo(a)anthracene | U | | 0.0634 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Benzo(b)fluoranthene | U | | 0.0670 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Benzo(k)fluoranthene | U | | 0.0639 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Benzo(g,h,i)perylene | U | | 0.0657 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Benzo(a)pyrene | U | | 0.0668 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.108 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.119 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.155 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.126 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.0631 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.125 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Chrysene | U | | 0.0714 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Dibenz(a,h)anthracene | U | | 0.0996 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.107 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.109 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.107 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.133 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.103 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.118 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Fluoranthene | U | | 0.0649 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Fluorene | U | | 0.0585 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Hexachlorobenzene | U | | 0.127 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.121 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.189 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Hexachloroethane | U | | 0.141 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | U | | 0.102 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Isophorone | U | | 0.110 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Naphthalene | U | | 0.0902 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Nitrobenzene | U | | 0.125 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.533 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.272 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.120 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Phenanthrene | U | | 0.0713 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.112 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.455 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.123 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Diethyl phthalate | U | | 0.119 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Dimethyl phthalate | U | | 0.762 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.243 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Pyrene | U | | 0.0699 | 0.359 | 10 | 06/02/2024 10:38 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.112 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.117 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2-Chlorophenol | U | | 0.119 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.105 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.0939 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | U | | 0.815 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.841 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2-Nitrophenol | U | | 0.128 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 4-Nitrophenol | U | | 0.112 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Pentachlorophenol | U | | 0.0967 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| Phenol | U | | 0.145 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.115 | 3.59 | 10 | 06/02/2024 10:38 | WG2295243 |
| *(S) 2-Fluorophenol* | *74.8* | | | *12.0-120* | | *06/02/2024 10:38* | WG2295243 |
| *(S) Phenol-d5* | *69.6* | | | *10.0-120* | | *06/02/2024 10:38* | WG2295243 |
| *(S) Nitrobenzene-d5* | *63.7* | | | *10.0-122* | | *06/02/2024 10:38* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *78.6* | | | *15.0-120* | | *06/02/2024 10:38* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *64.3* | | | *10.0-127* | | *06/02/2024 10:38* | WG2295243 |
| *(S) p-Terphenyl-d14* | *76.7* | | | *10.0-120* | | *06/02/2024 10:38* | WG2295243 |

**Sample Narrative:**

L1739342-37 WG2295243: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.3 | | 1 | 05/30/2024 07:27 | WG2295026 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0400 | J | 0.0216 | 0.0480 | 1 | 05/30/2024 15:42 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.653 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| Arsenic | 0.881 | J | 0.622 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| Barium | 44.5 | | 0.102 | 0.600 | 1 | 06/01/2024 14:04 | WG2295060 |
| Beryllium | 0.189 | J | 0.0378 | 0.240 | 1 | 06/01/2024 14:04 | WG2295060 |
| Cadmium | U | | 0.0565 | 0.600 | 1 | 06/01/2024 14:04 | WG2295060 |
| Chromium | 2.30 | B | 0.160 | 1.20 | 1 | 06/01/2024 14:04 | WG2295060 |
| Cobalt | 5.02 | | 0.0974 | 1.20 | 1 | 06/01/2024 14:04 | WG2295060 |
| Copper | 2.28 | J | 0.480 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| Lead | 3.35 | | 0.250 | 0.600 | 1 | 06/01/2024 14:04 | WG2295060 |
| Molybdenum | U | | 0.131 | 0.600 | 1 | 06/01/2024 14:04 | WG2295060 |
| Nickel | 2.29 | J | 0.158 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| Selenium | U | | 0.917 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| Silver | U | | 0.152 | 1.20 | 1 | 06/01/2024 14:04 | WG2295060 |
| Thallium | 0.886 | J | 0.473 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| Vanadium | 8.52 | | 0.607 | 2.40 | 1 | 06/01/2024 14:04 | WG2295060 |
| Zinc | 16.4 | B | 0.999 | 6.00 | 1 | 06/01/2024 14:04 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | T8 | 1.31 | 3.94 | 25 | 06/05/2024 03:57 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/05/2024 03:57* | WG2298546 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0529 | 0.0724 | 1 | 05/30/2024 03:18 | WG2295165 |
| Acrylonitrile | U | | 0.00523 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| Benzene | U | | 0.000677 | 0.00145 | 1 | 05/30/2024 03:18 | WG2295165 |
| Bromobenzene | U | | 0.00130 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| Bromodichloromethane | U | | 0.00105 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Bromoform | U | | 0.00170 | 0.0362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Bromomethane | U | | 0.00285 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| n-Butylbenzene | U | | 0.00761 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| sec-Butylbenzene | U | | 0.00417 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| tert-Butylbenzene | U | | 0.00283 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| Carbon tetrachloride | U | | 0.00130 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| Chlorobenzene | U | | 0.000304 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Chlorodibromomethane | U | | 0.000887 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Chloroethane | U | | 0.00246 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| Chloroform | U | | 0.00149 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Chloromethane | U | | 0.00630 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| 2-Chlorotoluene | U | | 0.00125 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 4-Chlorotoluene | U | | 0.000652 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00565 | 0.0362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2-Dibromoethane | U | | 0.000939 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Dibromomethane | U | | 0.00109 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2-Dichlorobenzene | U | | 0.000616 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,3-Dichlorobenzene | U | | 0.000869 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,4-Dichlorobenzene | U | | 0.00101 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| Dichlorodifluoromethane | U | | 0.00233 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,1-Dichloroethane | U | | 0.000711 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2-Dichloroethane | U | | 0.000940 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,1-Dichloroethene | U | | 0.000878 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| cis-1,2-Dichloroethene | U | | 0.00106 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| trans-1,2-Dichloroethene | U | | 0.00151 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2-Dichloropropane | U | | 0.00206 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,1-Dichloropropene | U | | 0.00117 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,3-Dichloropropane | U | | 0.000726 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| cis-1,3-Dichloropropene | U | | 0.00110 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| trans-1,3-Dichloropropene | U | | 0.00165 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 2,2-Dichloropropane | U | | 0.00200 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Di-isopropyl ether | U | | 0.000594 | 0.00145 | 1 | 05/30/2024 03:18 | WG2295165 |
| Ethylbenzene | U | | 0.00107 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Hexachloro-1,3-butadiene | U | | 0.00869 | 0.0362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Isopropylbenzene | U | | 0.000616 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| p-Isopropyltoluene | U | | 0.00369 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 2-Butanone (MEK) | U | | 0.0920 | 0.145 | 1 | 05/30/2024 03:18 | WG2295165 |
| Methylene Chloride | U | | 0.00962 | 0.0362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00330 | 0.0362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Methyl tert-butyl ether | U | | 0.000507 | 0.00145 | 1 | 05/30/2024 03:18 | WG2295165 |
| Naphthalene | U | | 0.00707 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| n-Propylbenzene | U | | 0.00138 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| Styrene | U | | 0.000332 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00137 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00101 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00109 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Tetrachloroethene | U | | 0.00130 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Toluene | U | | 0.00188 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2,3-Trichlorobenzene | U | | 0.0106 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2,4-Trichlorobenzene | U | | 0.00637 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,1,1-Trichloroethane | U | | 0.00134 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,1,2-Trichloroethane | U | | 0.000865 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Trichloroethene | U | | 0.000846 | 0.00145 | 1 | 05/30/2024 03:18 | WG2295165 |
| Trichlorofluoromethane | U | | 0.00120 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2,3-Trichloropropane | U | | 0.00235 | 0.0181 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00229 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.00229 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00290 | 0.00724 | 1 | 05/30/2024 03:18 | WG2295165 |
| Vinyl chloride | U | | 0.00168 | 0.00362 | 1 | 05/30/2024 03:18 | WG2295165 |
| Xylenes, Total | U | | 0.00127 | 0.00942 | 1 | 05/30/2024 03:18 | WG2295165 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *05/30/2024 03:18* | WG2295165 |
| *(S) 4-Bromofluorobenzene* | *98.2* | | | *67.0-138* | | *05/30/2024 03:18* | WG2295165 |
| *(S) 1,2-Dichloroethane-d4* | *90.8* | | | *70.0-130* | | *05/30/2024 03:18* | WG2295165 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | T8 | 0.880 | 4.80 | 1 | 06/06/2024 15:20 | WG2299534 |
| C22-C32 Hydrocarbons | U | T8 | 1.60 | 4.80 | 1 | 06/06/2024 15:20 | WG2299534 |
| C32-C40 Hydrocarbons | U | T8 | 1.60 | 4.80 | 1 | 06/06/2024 15:20 | WG2299534 |
| *(S) o-Terphenyl* | *66.3* | | | *18.0-148* | | *06/06/2024 15:20* | WG2299534 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0346 | J | 0.00647 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Acenaphthylene | U | | 0.00563 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Anthracene | U | | 0.00712 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Benzidine | U | | 0.0751 | 2.00 | 1 | 05/31/2024 19:31 | WG2295243 |
| Benzo(a)anthracene | U | | 0.00705 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Benzo(b)fluoranthene | U | | 0.00745 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Benzo(k)fluoranthene | U | | 0.00711 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Benzo(g,h,i)perylene | U | | 0.00731 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Benzo(a)pyrene | U | | 0.00743 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.0120 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.0132 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0173 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.0140 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.00702 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.0139 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Chrysene | U | | 0.00795 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Dibenz(a,h)anthracene | U | | 0.0111 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.0118 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.0121 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.0119 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.0148 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.0115 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.0131 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Fluoranthene | U | | 0.00721 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Fluorene | 0.0167 | J | 0.00651 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Hexachlorobenzene | U | | 0.0142 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.0134 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.0210 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Hexachloroethane | U | | 0.0157 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0113 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Isophorone | U | | 0.0122 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Naphthalene | 0.0262 | J | 0.0100 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Nitrobenzene | U | | 0.0139 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.0593 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.0303 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.0133 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Phenanthrene | 0.0138 | J | 0.00793 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.0125 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0507 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.0137 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Diethyl phthalate | U | | 0.0132 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Dimethyl phthalate | U | | 0.0848 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.0270 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Pyrene | U | | 0.00778 | 0.0400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.0125 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.0130 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2-Chlorophenol | U | | 0.0132 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.0116 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0104 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0906 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.0935 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2-Nitrophenol | U | | 0.0143 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 4-Nitrophenol | U | | 0.0125 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Pentachlorophenol | U | | 0.0108 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| Phenol | U | | 0.0161 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.0128 | 0.400 | 1 | 05/31/2024 19:31 | WG2295243 |
| *(S) 2-Fluorophenol* | *67.3* | | | *12.0-120* | | *05/31/2024 19:31* | WG2295243 |
| *(S) Phenol-d5* | *64.3* | | | *10.0-120* | | *05/31/2024 19:31* | WG2295243 |
| *(S) Nitrobenzene-d5* | *53.7* | | | *10.0-122* | | *05/31/2024 19:31* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *64.7* | | | *15.0-120* | | *05/31/2024 19:31* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *67.0* | | | *10.0-127* | | *05/31/2024 19:31* | WG2295243 |
| *(S) p-Terphenyl-d14* | *74.8* | | | *10.0-120* | | *05/31/2024 19:31* | WG2295243 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 94.0 | | 1 | 05/30/2024 07:27 | WG2295026 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.133 | | 0.0191 | 0.0425 | 1 | 05/30/2024 15:44 | WG2295032 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.42 | J | 0.579 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| Arsenic | 6.22 | | 0.551 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| Barium | 179 | | 0.0906 | 0.532 | 1 | 06/01/2024 14:06 | WG2295060 |
| Beryllium | 0.193 | J | 0.0335 | 0.213 | 1 | 06/01/2024 14:06 | WG2295060 |
| Cadmium | 0.0544 | B J | 0.0501 | 0.532 | 1 | 06/01/2024 14:06 | WG2295060 |
| Chromium | 11.6 | | 0.141 | 1.06 | 1 | 06/01/2024 14:06 | WG2295060 |
| Cobalt | 7.11 | | 0.0863 | 1.06 | 1 | 06/01/2024 14:06 | WG2295060 |
| Copper | 141 | | 0.425 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| Lead | 73.5 | | 0.221 | 0.532 | 1 | 06/01/2024 14:06 | WG2295060 |
| Molybdenum | 0.255 | J | 0.116 | 0.532 | 1 | 06/01/2024 14:06 | WG2295060 |
| Nickel | 18.8 | | 0.140 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| Selenium | U | | 0.813 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| Silver | U | | 0.135 | 1.06 | 1 | 06/01/2024 14:06 | WG2295060 |
| Thallium | 1.89 | J | 0.419 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| Vanadium | 37.9 | | 0.538 | 2.13 | 1 | 06/01/2024 14:06 | WG2295060 |
| Zinc | 123 | | 0.885 | 5.32 | 1 | 06/01/2024 14:06 | WG2295060 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.34 | B J | 0.945 | 2.85 | 25 | 05/29/2024 19:38 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.1* | | | *77.0-120* | | *05/29/2024 19:38* | WG2294990 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0413 | 0.0566 | 1 | 05/30/2024 18:35 | WG2295869 |
| Acrylonitrile | U | | 0.00409 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| Benzene | 0.000816 | J | 0.000529 | 0.00113 | 1 | 05/30/2024 18:35 | WG2295869 |
| Bromobenzene | U | | 0.00102 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| Bromodichloromethane | U | | 0.000821 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Bromoform | U | | 0.00132 | 0.0283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Bromomethane | U | | 0.00223 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| n-Butylbenzene | U | | 0.00594 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| sec-Butylbenzene | U | | 0.00326 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| tert-Butylbenzene | U | | 0.00221 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| Carbon tetrachloride | U | | 0.00102 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| Chlorobenzene | U | | 0.000238 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Chlorodibromomethane | U | | 0.000693 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Chloroethane | U | | 0.00192 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| Chloroform | U | | 0.00117 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Chloromethane | U | | 0.00492 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| 2-Chlorotoluene | U | | 0.000979 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 4-Chlorotoluene | U | | 0.000509 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00441 | 0.0283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2-Dibromoethane | U | | 0.000734 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Dibromomethane | U | | 0.000849 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2-Dichlorobenzene | U | | 0.000481 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,3-Dichlorobenzene | U | | 0.000679 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,4-Dichlorobenzene | U | | 0.000792 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| Dichlorodifluoromethane | U | | 0.00182 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,1-Dichloroethane | U | | 0.000556 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2-Dichloroethane | U | | 0.000735 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,1-Dichloroethene | U | | 0.000686 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| cis-1,2-Dichloroethene | U | | 0.000831 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| trans-1,2-Dichloroethene | U | | 0.00118 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2-Dichloropropane | U | | 0.00161 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,1-Dichloropropene | U | | 0.000916 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,3-Dichloropropane | U | | 0.000567 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| cis-1,3-Dichloropropene | U | | 0.000857 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| trans-1,3-Dichloropropene | U | | 0.00129 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 2,2-Dichloropropane | U | | 0.00156 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Di-isopropyl ether | U | | 0.000464 | 0.00113 | 1 | 05/30/2024 18:35 | WG2295869 |
| Ethylbenzene | U | | 0.000834 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00679 | 0.0283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Isopropylbenzene | U | | 0.000481 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| p-Isopropyltoluene | U | | 0.00289 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 2-Butanone (MEK) | U | | 0.0719 | 0.113 | 1 | 05/30/2024 18:35 | WG2295869 |
| Methylene Chloride | U | | 0.00752 | 0.0283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00258 | 0.0283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Methyl tert-butyl ether | U | | 0.000396 | 0.00113 | 1 | 05/30/2024 18:35 | WG2295869 |
| Naphthalene | U | | 0.00552 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| n-Propylbenzene | U | | 0.00108 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| Styrene | U | | 0.000259 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00107 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000787 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000854 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Tetrachloroethene | U | | 0.00101 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Toluene | U | | 0.00147 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2,3-Trichlorobenzene | U | | 0.00830 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2,4-Trichlorobenzene | U | | 0.00498 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,1,1-Trichloroethane | U | | 0.00104 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,1,2-Trichloroethane | U | | 0.000676 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Trichloroethene | U | | 0.000661 | 0.00113 | 1 | 05/30/2024 18:35 | WG2295869 |
| Trichlorofluoromethane | U | | 0.000936 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2,3-Trichloropropane | U | | 0.00183 | 0.0141 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2,4-Trimethylbenzene | U | | 0.00179 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,2,3-Trimethylbenzene | U | | 0.00179 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| 1,3,5-Trimethylbenzene | U | | 0.00226 | 0.00566 | 1 | 05/30/2024 18:35 | WG2295869 |
| Vinyl chloride | U | | 0.00131 | 0.00283 | 1 | 05/30/2024 18:35 | WG2295869 |
| Xylenes, Total | U | | 0.000996 | 0.00736 | 1 | 05/30/2024 18:35 | WG2295869 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *05/30/2024 18:35* | WG2295869 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/30/2024 18:35* | WG2295869 |
| *(S) 1,2-Dichloroethane-d4* | *96.5* | | | *70.0-130* | | *05/30/2024 18:35* | WG2295869 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 15.6 | 85.1 | 20 | 05/30/2024 19:59 | WG2295239 |
| C22-C32 Hydrocarbons | 145 | | 28.3 | 85.1 | 20 | 05/30/2024 19:59 | WG2295239 |
| C32-C40 Hydrocarbons | 171 | | 28.3 | 85.1 | 20 | 05/30/2024 19:59 | WG2295239 |
| *(S) o-Terphenyl* | *66.4* | J7 | | *18.0-148* | | *05/30/2024 19:59* | WG2295239 |

Sample Narrative:

L1739342-39 WG2295239: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0573 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Acenaphthylene | U | | 0.0499 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Anthracene | U | | 0.0631 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Benzidine | U | | 0.666 | 17.8 | 10 | 05/31/2024 23:36 | WG2295243 |
| Benzo(a)anthracene | U | | 0.0624 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Benzo(b)fluoranthene | U | | 0.0661 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Benzo(k)fluoranthene | U | | 0.0630 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Benzo(g,h,i)perylene | U | | 0.0648 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Benzo(a)pyrene | U | | 0.0658 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.106 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.117 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.153 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.124 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.0622 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.123 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Chrysene | U | | 0.0704 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Dibenz(a,h)anthracene | U | | 0.0982 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.105 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.107 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.105 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.131 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.102 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.116 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Fluoranthene | 0.0776 | J | 0.0639 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Fluorene | U | | 0.0577 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Hexachlorobenzene | U | | 0.126 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.119 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.186 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Hexachloroethane | U | | 0.139 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | U | | 0.100 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Isophorone | U | | 0.108 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Naphthalene | U | | 0.0889 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Nitrobenzene | U | | 0.123 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.525 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.268 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.118 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Phenanthrene | 0.0824 | J | 0.0703 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.111 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.449 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.121 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Diethyl phthalate | U | | 0.117 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Dimethyl phthalate | U | | 0.751 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.239 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Pyrene | 0.0905 | J | 0.0689 | 0.354 | 10 | 05/31/2024 23:36 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.111 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.115 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2-Chlorophenol | U | | 0.117 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.103 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.0925 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.803 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.829 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2-Nitrophenol | U | | 0.127 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 4-Nitrophenol | U | | 0.111 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Pentachlorophenol | U | | 0.0953 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| Phenol | U | | 0.143 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.114 | 3.54 | 10 | 05/31/2024 23:36 | WG2295243 |
| *(S) 2-Fluorophenol* | *85.5* | | | *12.0-120* | | *05/31/2024 23:36* | WG2295243 |
| *(S) Phenol-d5* | *86.8* | | | *10.0-120* | | *05/31/2024 23:36* | WG2295243 |
| *(S) Nitrobenzene-d5* | *73.2* | | | *10.0-122* | | *05/31/2024 23:36* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *82.3* | | | *15.0-120* | | *05/31/2024 23:36* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *80.8* | | | *10.0-127* | | *05/31/2024 23:36* | WG2295243 |
| *(S) p-Terphenyl-d14* | *87.4* | | | *10.0-120* | | *05/31/2024 23:36* | WG2295243 |

**Sample Narrative:**

L1739342-39 WG2295243: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.5 | | 1 | 06/04/2024 14:49 | WG2298380 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.27 | B J T8 | 1.07 | 3.22 | 27.3 | 06/05/2024 04:20 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/05/2024 04:20* | WG2298546 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | U | T8 | 80.1 | 437 | 100 | 06/06/2024 18:30 | WG2299534 |
| C22-C32 Hydrocarbons | 1210 | T8 | 145 | 437 | 100 | 06/06/2024 18:30 | WG2299534 |
| C32-C40 Hydrocarbons | 1380 | T8 | 145 | 437 | 100 | 06/06/2024 18:30 | WG2299534 |
| *(S) o-Terphenyl* | *74.2* | J7 | | *18.0-148* | | *06/06/2024 18:30* | WG2299534 |

**Sample Narrative:**

L1739342-40 WG2299534: Cannot run at lower dilution due to viscosity of extract

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.8 | | 1 | 05/24/2024 09:20 | WG2292490 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.86 | B J | 1.55 | 4.66 | 30 | 05/26/2024 04:58 | WG2293479 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.1* | | | *77.0-120* | | *05/26/2024 04:58* | WG2293479 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0680 | 0.0932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Acrylonitrile | U | | 0.00672 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Benzene | 0.00321 | | 0.000870 | 0.00186 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Bromobenzene | U | | 0.00168 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Bromodichloromethane | U | | 0.00135 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Bromoform | U | | 0.00217 | 0.0466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Bromomethane | U | | 0.00366 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| n-Butylbenzene | U | | 0.00978 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| sec-Butylbenzene | U | | 0.00537 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| tert-Butylbenzene | U | | 0.00363 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Carbon tetrachloride | U | | 0.00168 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Chlorobenzene | U | | 0.000391 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Chlorodibromomethane | U | | 0.00114 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Chloroethane | U | | 0.00317 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Chloroform | U | | 0.00193 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Chloromethane | U | | 0.00811 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 2-Chlorotoluene | U | | 0.00161 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 4-Chlorotoluene | U | | 0.000839 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00727 | 0.0466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2-Dibromoethane | U | | 0.00121 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Dibromomethane | U | | 0.00140 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2-Dichlorobenzene | U | | 0.000792 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,3-Dichlorobenzene | U | | 0.00112 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,4-Dichlorobenzene | U | | 0.00130 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Dichlorodifluoromethane | U | | 0.00300 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,1-Dichloroethane | U | | 0.000915 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2-Dichloroethane | U | | 0.00121 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,1-Dichloroethene | U | | 0.00113 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| cis-1,2-Dichloroethene | U | | 0.00137 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| trans-1,2-Dichloroethene | U | | 0.00194 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2-Dichloropropane | U | J4 | 0.00264 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,1-Dichloropropene | U | | 0.00151 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,3-Dichloropropane | U | | 0.000933 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| cis-1,3-Dichloropropene | U | | 0.00141 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| trans-1,3-Dichloropropene | U | | 0.00213 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 2,2-Dichloropropane | U | | 0.00258 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Di-isopropyl ether | U | | 0.000764 | 0.00186 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Ethylbenzene | U | | 0.00137 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.0466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Isopropylbenzene | U | | 0.000792 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| p-Isopropyltoluene | U | | 0.00475 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 2-Butanone (MEK) | U | J4 | 0.118 | 0.186 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Methylene Chloride | U | | 0.0124 | 0.0466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00425 | 0.0466 | 1.2 | 05/25/2024 21:04 | WG2293082 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000652 | 0.00186 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Naphthalene | U | | 0.00910 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| n-Propylbenzene | U | | 0.00177 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Styrene | U | | 0.000427 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00177 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00130 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00141 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Tetrachloroethene | U | | 0.00168 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Toluene | 0.00261 | J | 0.00242 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2,3-Trichlorobenzene | U | | 0.0137 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2,4-Trichlorobenzene | U | | 0.00820 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,1,1-Trichloroethane | U | | 0.00172 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,1,2-Trichloroethane | U | | 0.00111 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Trichloroethene | U | | 0.00109 | 0.00186 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Trichlorofluoromethane | U | J4 | 0.00154 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2,3-Trichloropropane | U | | 0.00301 | 0.0233 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2,4-Trimethylbenzene | U | | 0.00295 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,2,3-Trimethylbenzene | U | | 0.00295 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| 1,3,5-Trimethylbenzene | U | | 0.00373 | 0.00932 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Vinyl chloride | U | | 0.00216 | 0.00466 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| Xylenes, Total | 0.00177 | J | 0.00165 | 0.0121 | 1.2 | 05/25/2024 21:04 | WG2293082 |
| *(S) Toluene-d8* | *96.5* | | | *75.0-131* | | *05/25/2024 21:04* | WG2293082 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/25/2024 21:04* | WG2293082 |
| *(S) 1,2-Dichloroethane-d4* | *109* | | | *70.0-130* | | *05/25/2024 21:04* | WG2293082 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.43 | J | 0.954 | 5.21 | 1 | 05/24/2024 20:37 | WG2292509 |
| C22-C32 Hydrocarbons | 7.16 | | 1.73 | 5.21 | 1 | 05/24/2024 20:37 | WG2292509 |
| C32-C40 Hydrocarbons | 5.86 | | 1.73 | 5.21 | 1 | 05/24/2024 20:37 | WG2292509 |
| *(S) o-Terphenyl* | *44.7* | | | *18.0-148* | | *05/24/2024 20:37* | WG2292509 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 05/30/2024 10:57 | WG2295042 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/30/2024 10:57 | WG2295042 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/30/2024 10:57 | WG2295042 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/30/2024 10:57 | WG2295042 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/30/2024 10:57 | WG2295042 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/30/2024 10:57 | WG2295042 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/30/2024 10:57 | WG2295042 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *05/30/2024 10:57* | WG2295042 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *77.0-126* | | *05/30/2024 10:57* | WG2295042 |
| *(S) 1,2-Dichloroethane-d4* | *119* | | | *70.0-130* | | *05/30/2024 10:57* | WG2295042 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/27/2024 15:07 | WG2292614 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Arsenic | 0.297 | J | 0.180 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Barium | 5.29 | | 0.381 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Chromium | U | | 1.24 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Copper | 4.10 | J | 1.51 | 5.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Cobalt | 0.238 | J | 0.0596 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Lead | 1.15 | J | 0.849 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Molybdenum | 1.40 | J | 0.348 | 5.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Nickel | 1.07 | J | 0.816 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Selenium | U | | 0.300 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Silver | U | | 0.0700 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Thallium | U | | 0.121 | 2.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Vanadium | 1.33 | J | 0.664 | 5.00 | 1 | 05/30/2024 00:13 | WG2294310 |
| Zinc | U | | 3.02 | 25.0 | 1 | 05/30/2024 00:13 | WG2294310 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 55.6 | B J | 30.4 | 100 | 1 | 05/27/2024 02:11 | WG2293775 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.5* | | | *78.0-120* | | *05/27/2024 02:11* | WG2293775 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 05/30/2024 11:18 | WG2295042 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/30/2024 11:18 | WG2295042 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/30/2024 11:18 | WG2295042 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/30/2024 11:18 | WG2295042 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/30/2024 11:18 | WG2295042 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/30/2024 11:18 | WG2295042 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/30/2024 11:18 | WG2295042 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *05/30/2024 11:18* | WG2295042 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *77.0-126* | | *05/30/2024 11:18* | WG2295042 |
| *(S) 1,2-Dichloroethane-d4* | *116* | | | *70.0-130* | | *05/30/2024 11:18* | WG2295042 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 08:28 | WG2296326 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 08:28 | WG2296326 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 08:28 | WG2296326 |
| *(S) o-Terphenyl* | *62.1* | | | *52.0-156* | | *06/02/2024 08:28* | WG2296326 |

## Method Blank (MB)

(MB) R4074083-1 05/24/24 09:20

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

## L1739287-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1739287-08 05/24/24 09:20 • (DUP) R4074083-3 05/24/24 09:20

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 95.5 | 95.5 | 1 | 0.0471 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074083-2 05/24/24 09:20

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739342-01,02,03,05,07,08,09,10,12,13

## Method Blank (MB)

(MB) R4075399-1 05/30/24 07:13

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

## L1739342-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1739342-13 05/30/24 07:13 • (DUP) R4075399-3 05/30/24 07:13

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 82.9 | 83.7 | 1 | 0.967 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075399-2 05/30/24 07:13

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 90.0-110 | |

## Method Blank (MB)

(MB) R4075209-1 05/29/24 15:10

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00500 | U | | |

## L1740618-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1740618-22 05/29/24 15:10 • (DUP) R4075209-3 05/29/24 15:10

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 92.7 | 90.9 | 1 | 2.01 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075209-2 05/29/24 15:10

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739342-24,25,26,27,29,31,32,33,34,36

## Method Blank (MB)

(MB) R4075211-1 05/29/24 15:29

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

## L1739342-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1739342-25 05/29/24 15:29 • (DUP) R4075211-3 05/29/24 15:29

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 93.9 | 91.2 | 1 | 2.91 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075211-2 05/29/24 15:29

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739342-37,38,39

## Method Blank (MB)

(MB) R4075400-1 05/30/24 07:27

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00700 | U | | |

## L1740231-54 Original Sample (OS) • Duplicate (DUP)

(OS) L1740231-54 05/30/24 07:27 • (DUP) R4075400-3 05/30/24 07:27

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 76.9 | 77.2 | 1 | 0.436 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075400-2 05/30/24 07:27

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739342-04,06,16,28,40

## Method Blank (MB)

(MB) R4077324-1 06/04/24 14:49

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

## L1739342-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1739342-16 06/04/24 14:49 • (DUP) R4077324-3 06/04/24 14:49

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 89.7 | 88.2 | 1 | 1.72 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4077324-2 06/04/24 14:49

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4079931-1 06/10/24 16:19

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

## L1742995-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1742995-03 06/10/24 16:19 • (DUP) R4079931-3 06/10/24 16:19

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 85.8 | 86.5 | 1 | 0.780 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4079931-2 06/10/24 16:19

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

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

## Method Blank (MB)

(MB) R4087024-1 06/26/24 13:44

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

## L1739342-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1739342-11 06/26/24 13:44 • (DUP) R4087024-3 06/26/24 13:44

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.7 | 85.8 | 1 | 1.28 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4087024-2 06/26/24 13:44

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739342-43

## Method Blank (MB)

(MB) R4074340-1 05/27/24 14:20

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4074340-2 05/27/24 14:27

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 2.93 | 97.8 | 80.0-120 | |

## L1739203-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739203-01 05/27/24 14:30 • (MS) R4074340-4 05/27/24 14:34 • (MSD) R4074340-5 05/27/24 14:37

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 2.70 | 2.79 | 89.9 | 93.0 | 1 | 75.0-125 | | | 3.33 | 20 |

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

## Method Blank (MB)

(MB) R4075520-1 05/30/24 14:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4075520-2 05/30/24 14:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.527 | 105 | 80.0-120 | |

## L1740887-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740887-04 05/30/24 14:46 • (MS) R4075520-4 05/30/24 14:51 • (MSD) R4075520-5 05/30/24 14:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.519 | 0.540 | 0.896 | 0.880 | 68.6 | 65.5 | 1 | 75.0-125 | J6 | J6 | 1.79 | 20 |

**Sample Narrative:**

MS: Matrix spike failure due to matrix interference.

MSD: Matrix spike failure due to matrix interference.

## Method Blank (MB)

(MB) R4075152-1 05/29/24 21:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4075152-2 05/29/24 21:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.514 | 103 | 80.0-120 | |

## L1739342-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-02 05/29/24 21:57 • (MS) R4075152-4 05/29/24 22:02 • (MSD) R4075152-5 05/29/24 22:04

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.606 | 0.0740 | 0.628 | 0.651 | 91.4 | 95.2 | 1 | 75.0-125 | | | 3.64 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-01,03,08,09,10,13,14,15,20,21,22

## Method Blank (MB)

(MB) R4076045-1 05/31/24 16:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | 1.17 | J | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4076045-2 05/31/24 16:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 99.2 | 99.2 | 80.0-120 | |
| Arsenic | 100 | 100 | 100 | 80.0-120 | |
| Barium | 100 | 104 | 104 | 80.0-120 | |
| Beryllium | 100 | 99.0 | 99.0 | 80.0-120 | |
| Cadmium | 100 | 99.0 | 99.0 | 80.0-120 | |
| Chromium | 100 | 105 | 105 | 80.0-120 | |
| Cobalt | 100 | 96.9 | 96.9 | 80.0-120 | |
| Copper | 100 | 104 | 104 | 80.0-120 | |
| Lead | 100 | 100 | 100 | 80.0-120 | |
| Molybdenum | 100 | 103 | 103 | 80.0-120 | |
| Nickel | 100 | 96.8 | 96.8 | 80.0-120 | |
| Selenium | 100 | 101 | 101 | 80.0-120 | |
| Silver | 20.0 | 18.6 | 93.1 | 80.0-120 | |
| Thallium | 100 | 102 | 102 | 80.0-120 | |
| Vanadium | 100 | 98.9 | 98.9 | 80.0-120 | |
| Zinc | 100 | 101 | 101 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1739342-01,03,08,09,10,13,14,15,20,21,22

## L1739342-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-14 05/31/24 20:09 • (MS) R4076045-5 05/31/24 20:14 • (MSD) R4076045-6 05/31/24 20:16

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 113 | 0.797 | 86.5 | 95.9 | 75.6 | 84.0 | 1 | 75.0-125 | | | 10.4 | 20 |
| Arsenic | 113 | 4.16 | 109 | 112 | 92.3 | 95.3 | 1 | 75.0-125 | | | 3.11 | 20 |
| Barium | 113 | 140 | 190 | 190 | 44.8 | 44.4 | 1 | 75.0-125 | J6 | J6 | 0.254 | 20 |
| Beryllium | 113 | 0.382 | 111 | 113 | 97.5 | 99.7 | 1 | 75.0-125 | | | 2.21 | 20 |
| Cadmium | 113 | U | 107 | 110 | 94.2 | 97.2 | 1 | 75.0-125 | | | 3.16 | 20 |
| Chromium | 113 | 58.2 | 151 | 167 | 81.9 | 96.1 | 1 | 75.0-125 | | | 10.1 | 20 |
| Cobalt | 113 | 16.9 | 114 | 121 | 85.7 | 92.2 | 1 | 75.0-125 | | | 6.32 | 20 |
| Copper | 113 | 23.5 | 126 | 134 | 90.5 | 97.7 | 1 | 75.0-125 | | | 6.25 | 20 |
| Lead | 113 | 10.7 | 113 | 119 | 90.6 | 95.7 | 1 | 75.0-125 | | | 4.95 | 20 |
| Molybdenum | 113 | U | 105 | 105 | 92.3 | 93.0 | 1 | 75.0-125 | | | 0.679 | 20 |
| Nickel | 113 | 114 | 190 | 226 | 67.2 | 99.3 | 1 | 75.0-125 | J6 | | 17.5 | 20 |
| Selenium | 113 | U | 104 | 107 | 91.4 | 94.8 | 1 | 75.0-125 | | | 3.56 | 20 |
| Silver | 22.6 | U | 17.8 | 18.2 | 78.6 | 80.3 | 1 | 75.0-125 | | | 2.14 | 20 |
| Thallium | 113 | 2.08 | 113 | 117 | 97.6 | 101 | 1 | 75.0-125 | | | 3.84 | 20 |
| Vanadium | 113 | 34.1 | 130 | 139 | 85.1 | 92.7 | 1 | 75.0-125 | | | 6.39 | 20 |
| Zinc | 113 | 40.6 | 129 | 141 | 77.6 | 89.0 | 1 | 75.0-125 | | | 9.50 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-02,25,26,27,32,33,34,37,38,39

## Method Blank (MB)

(MB) R4076151-1 06/01/24 13:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | 0.0629 | J | 0.0471 | 0.500 |
| Chromium | 0.219 | J | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | 1.45 | J | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4076151-2 06/01/24 13:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 94.1 | 94.1 | 80.0-120 | |
| Arsenic | 100 | 96.3 | 96.3 | 80.0-120 | |
| Barium | 100 | 99.4 | 99.4 | 80.0-120 | |
| Beryllium | 100 | 96.2 | 96.2 | 80.0-120 | |
| Cadmium | 100 | 94.5 | 94.5 | 80.0-120 | |
| Chromium | 100 | 100 | 100 | 80.0-120 | |
| Cobalt | 100 | 91.9 | 91.9 | 80.0-120 | |
| Copper | 100 | 101 | 101 | 80.0-120 | |
| Lead | 100 | 95.5 | 95.5 | 80.0-120 | |
| Molybdenum | 100 | 98.4 | 98.4 | 80.0-120 | |
| Nickel | 100 | 95.1 | 95.1 | 80.0-120 | |
| Selenium | 100 | 92.2 | 92.2 | 80.0-120 | |
| Silver | 20.0 | 20.1 | 100 | 80.0-120 | |
| Thallium | 100 | 99.6 | 99.6 | 80.0-120 | |
| Vanadium | 100 | 95.3 | 95.3 | 80.0-120 | |
| Zinc | 100 | 96.5 | 96.5 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1739342-02,25,26,27,32,33,34,37,38,39

## L1739342-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-02 06/01/24 13:39 • (MS) R4076151-5 06/01/24 13:44 • (MSD) R4076151-6 06/01/24 13:45

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 121 | 5.18 | 79.8 | 83.4 | 61.5 | 64.5 | 1 | 75.0-125 | J6 | J6 | 4.42 | 20 |
| Arsenic | 121 | 1930 | 2360 | 1850 | 351 | 0.000 | 1 | 75.0-125 | V | J3 V | 23.9 | 20 |
| Barium | 121 | 842 | 762 | 613 | 0.000 | 0.000 | 1 | 75.0-125 | V | J3 V | 21.7 | 20 |
| Beryllium | 121 | 0.194 | 97.4 | 99.5 | 80.2 | 81.9 | 1 | 75.0-125 | | | 2.15 | 20 |
| Cadmium | 121 | 1.71 | 105 | 102 | 84.8 | 82.7 | 1 | 75.0-125 | | | 2.46 | 20 |
| Chromium | 121 | 835 | 720 | 471 | 0.000 | 0.000 | 1 | 75.0-125 | V | J3 V | 41.8 | 20 |
| Cobalt | 121 | 15.4 | 112 | 104 | 79.5 | 73.0 | 1 | 75.0-125 | | J6 | 7.24 | 20 |
| Copper | 121 | 80.7 | 183 | 182 | 83.9 | 83.2 | 1 | 75.0-125 | | | 0.459 | 20 |
| Lead | 121 | 138 | 267 | 249 | 106 | 91.5 | 1 | 75.0-125 | | | 6.96 | 20 |
| Molybdenum | 121 | 1.09 | 98.7 | 99.2 | 80.5 | 80.9 | 1 | 75.0-125 | | | 0.517 | 20 |
| Nickel | 121 | 166 | 222 | 168 | 46.0 | 1.57 | 1 | 75.0-125 | J6 | J3 J6 | 27.6 | 20 |
| Selenium | 121 | 1.48 | 106 | 106 | 86.4 | 86.0 | 1 | 75.0-125 | | | 0.511 | 20 |
| Silver | 24.3 | 0.307 | 23.0 | 22.4 | 93.4 | 91.2 | 1 | 75.0-125 | | | 2.26 | 20 |
| Thallium | 121 | 1.83 | 104 | 104 | 84.0 | 84.5 | 1 | 75.0-125 | | | 0.582 | 20 |
| Vanadium | 121 | 47.9 | 138 | 130 | 74.3 | 67.4 | 1 | 75.0-125 | J6 | J6 | 6.25 | 20 |
| Zinc | 121 | 218 | 324 | 266 | 87.2 | 39.2 | 1 | 75.0-125 | | J6 | 19.8 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-14

## Method Blank (MB)

(MB) R4077257-1 06/04/24 18:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Silver | U | | 0.127 | 1.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077257-2 06/04/24 18:49

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 20.0 | 20.1 | 100 | 80.0-120 | |

## L1739158-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739158-14 06/04/24 18:52 • (MS) R4077257-5 06/04/24 19:01 • (MSD) R4077257-6 06/04/24 19:04

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 22.1 | U | 22.4 | 24.0 | 101 | 109 | 1 | 75.0-125 | | | 6.86 | 20 |

## Method Blank (MB)

(MB) R4081332-1 06/13/24 10:57

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Silver | U | | 0.127 | 1.00 |

## Laboratory Control Sample (LCS)

(LCS) R4081332-2 06/13/24 10:58

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 20.0 | 21.1 | 106 | 80.0-120 | |

## L1739342-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-21 06/13/24 11:00 • (MS) R4081332-5 06/13/24 11:05 • (MSD) R4081332-6 06/13/24 11:07

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 21.4 | U | 20.3 | 18.1 | 95.0 | 84.6 | 1 | 75.0-125 | | | 11.6 | 20 |

## Method Blank (MB)

(MB) R4087553-1 06/27/24 20:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | 0.181 | J | 0.132 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4087553-2 06/27/24 20:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Copper | 100 | 102 | 102 | 80.0-120 | |
| Lead | 100 | 98.7 | 98.7 | 80.0-120 | |
| Nickel | 100 | 97.7 | 97.7 | 80.0-120 | |

## L1750258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1750258-01 06/27/24 20:05 • (MS) R4087553-5 06/27/24 20:10 • (MSD) R4087553-6 06/27/24 20:12

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper | 114 | 2.09 | 108 | 111 | 93.0 | 95.0 | 1 | 75.0-125 | | | 2.07 | 20 |
| Lead | 114 | 19.1 | 116 | 118 | 84.6 | 86.9 | 1 | 75.0-125 | | | 2.23 | 20 |
| Nickel | 114 | 4.00 | 111 | 112 | 93.9 | 94.8 | 1 | 75.0-125 | | | 0.879 | 20 |

## Method Blank (MB)

(MB) R4088878-1 07/01/24 19:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.518 | 2.00 |
| Nickel | U | | 0.132 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4088878-2 07/01/24 19:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 90.4 | 90.4 | 80.0-120 | |
| Nickel | 100 | 92.4 | 92.4 | 80.0-120 | |

## L1741921-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-16 07/01/24 19:55 • (MS) R4088878-5 07/01/24 20:00 • (MSD) R4088878-6 07/01/24 20:02

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 123 | 6.29 | 110 | 121 | 84.3 | 92.6 | 1 | 75.0-125 | | | 8.88 | 20 |
| Nickel | 123 | 37.4 | 145 | 157 | 86.8 | 97.1 | 1 | 75.0-125 | | | 8.44 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-43

## Method Blank (MB)

(MB) R4075132-1 05/29/24 22:31

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4075132-2 05/29/24 22:34

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 50.7 | 101 | 80.0-120 | |
| Arsenic | 50.0 | 49.8 | 99.5 | 80.0-120 | |
| Barium | 50.0 | 48.3 | 96.6 | 80.0-120 | |
| Beryllium | 50.0 | 44.7 | 89.4 | 80.0-120 | |
| Cadmium | 50.0 | 49.7 | 99.5 | 80.0-120 | |
| Chromium | 50.0 | 50.3 | 101 | 80.0-120 | |
| Copper | 50.0 | 50.0 | 100 | 80.0-120 | |
| Cobalt | 50.0 | 50.5 | 101 | 80.0-120 | |
| Lead | 50.0 | 50.2 | 100 | 80.0-120 | |
| Molybdenum | 50.0 | 49.2 | 98.4 | 80.0-120 | |
| Nickel | 50.0 | 51.5 | 103 | 80.0-120 | |
| Selenium | 50.0 | 50.9 | 102 | 80.0-120 | |
| Silver | 50.0 | 50.4 | 101 | 80.0-120 | |
| Thallium | 50.0 | 48.9 | 97.8 | 80.0-120 | |
| Vanadium | 50.0 | 48.9 | 97.9 | 80.0-120 | |
| Zinc | 50.0 | 48.7 | 97.4 | 80.0-120 | |

## L1738756-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738756-07 05/29/24 22:37 • (MS) R4075132-4 05/29/24 22:44 • (MSD) R4075132-5 05/29/24 22:47

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 53.8 | 54.3 | 108 | 109 | 1 | 75.0-125 | | | 1.05 | 20 |
| Arsenic | 50.0 | 0.881 | 51.2 | 52.9 | 101 | 104 | 1 | 75.0-125 | | | 3.18 | 20 |
| Barium | 50.0 | 70.7 | 119 | 120 | 97.2 | 98.3 | 1 | 75.0-125 | | | 0.482 | 20 |
| Beryllium | 50.0 | U | 48.0 | 48.5 | 96.0 | 97.0 | 1 | 75.0-125 | | | 0.954 | 20 |
| Cadmium | 50.0 | 0.374 | 50.5 | 52.4 | 100 | 104 | 1 | 75.0-125 | | | 3.70 | 20 |
| Chromium | 50.0 | U | 49.0 | 51.4 | 98.0 | 103 | 1 | 75.0-125 | | | 4.75 | 20 |
| Copper | 50.0 | 6.40 | 54.7 | 55.8 | 96.6 | 98.7 | 1 | 75.0-125 | | | 1.92 | 20 |
| Cobalt | 50.0 | 0.542 | 49.3 | 51.3 | 97.4 | 101 | 1 | 75.0-125 | | | 3.98 | 20 |
| Lead | 50.0 | 1.05 | 52.3 | 55.3 | 103 | 109 | 1 | 75.0-125 | | | 5.50 | 20 |
| Molybdenum | 50.0 | | 62.3 | 63.5 | 103 | 105 | 1 | 75.0-125 | | | 1.93 | 20 |
| Nickel | 50.0 | 4.94 | 53.7 | 56.6 | 97.4 | 103 | 1 | 75.0-125 | | | 5.35 | 20 |
| Selenium | 50.0 | U | 53.6 | 54.0 | 107 | 108 | 1 | 75.0-125 | | | 0.719 | 20 |
| Silver | 50.0 | U | 49.8 | 51.8 | 99.5 | 104 | 1 | 75.0-125 | | | 3.98 | 20 |
| Thallium | 50.0 | U | 50.6 | 52.7 | 101 | 105 | 1 | 75.0-125 | | | 4.19 | 20 |
| Vanadium | 50.0 | U | 50.5 | 52.2 | 101 | 104 | 1 | 75.0-125 | | | 3.27 | 20 |
| Zinc | 50.0 | 37.3 | 84.2 | 87.1 | 93.9 | 99.7 | 1 | 75.0-125 | | | 3.41 | 20 |

## Method Blank (MB)

(MB) R4074741-2 05/26/24 02:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.88 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.4* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4074741-1 05/26/24 00:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.81 | 116 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *108* | *77.0-120* | |

## L1738627-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738627-03 05/26/24 02:22 • (MS) R4074741-3 05/26/24 08:50 • (MSD) R4074741-4 05/26/24 09:09

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 168 | 2.26 | 183 | 190 | 108 | 112 | 28.5 | 10.0-141 | | | 3.77 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *107* | *107* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4075221-1 05/29/24 13:58

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.74 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4075221-2 05/29/24 14:17

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 3.90 | 78.0 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *104* | *77.0-120* | |

## Method Blank (MB)

(MB) R4075353-1 05/30/24 11:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4075353-2 05/30/24 11:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.40 | 88.0 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *94.3* | *77.0-120* | |

## Method Blank (MB)

(MB) R4078024-2 06/05/24 00:29

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 0.992 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078024-1 06/04/24 22:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 6.00 | 120 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *116* | *77.0-120* | |

## L1741491-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741491-05 06/05/24 05:06 • (MS) R4078024-3 06/05/24 08:33 • (MSD) R4078024-4 06/05/24 08:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 216 | 5.45 | 232 | 227 | 105 | 103 | 25.8 | 10.0-141 | | | 2.18 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *116* | *115* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4074845-4 05/27/24 00:55

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | 88.2 | J | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.9* | | | *78.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074845-1 05/26/24 22:44 • (LCSD) R4074845-2 05/26/24 23:07

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 5360 | 5400 | 107 | 108 | 71.0-127 | | | 0.743 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *111* | *110* | *78.0-120* | | | | |

## Method Blank (MB)

(MB) R4074804-3 05/25/24 13:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4074804-3 05/25/24 13:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *94.1* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *97.6* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *111* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074804-1 05/25/24 12:19 • (LCSD) R4074804-2 05/25/24 12:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 1.36 | 1.23 | 218 | 197 | 10.0-160 | J4 | J4 | 10.0 | 31 |
| Acrylonitrile | 0.625 | 0.611 | 0.660 | 97.8 | 106 | 45.0-153 | | | 7.71 | 22 |
| Benzene | 0.125 | 0.126 | 0.127 | 101 | 102 | 70.0-123 | | | 0.791 | 20 |
| Bromobenzene | 0.125 | 0.118 | 0.115 | 94.4 | 92.0 | 73.0-121 | | | 2.58 | 20 |
| Bromodichloromethane | 0.125 | 0.126 | 0.123 | 101 | 98.4 | 73.0-121 | | | 2.41 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-18,41

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074804-1 05/25/24 12:19 • (LCSD) R4074804-2 05/25/24 12:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.0965 | 0.0994 | 77.2 | 79.5 | 64.0-132 | | | 2.96 | 20 |
| Bromomethane | 0.125 | 0.0950 | 0.0961 | 76.0 | 76.9 | 56.0-147 | | | 1.15 | 20 |
| n-Butylbenzene | 0.125 | 0.117 | 0.111 | 93.6 | 88.8 | 68.0-135 | | | 5.26 | 20 |
| sec-Butylbenzene | 0.125 | 0.133 | 0.137 | 106 | 110 | 74.0-130 | | | 2.96 | 20 |
| tert-Butylbenzene | 0.125 | 0.122 | 0.123 | 97.6 | 98.4 | 75.0-127 | | | 0.816 | 20 |
| Carbon tetrachloride | 0.125 | 0.118 | 0.130 | 94.4 | 104 | 66.0-128 | | | 9.68 | 20 |
| Chlorobenzene | 0.125 | 0.106 | 0.110 | 84.8 | 88.0 | 76.0-128 | | | 3.70 | 20 |
| Chlorodibromomethane | 0.125 | 0.102 | 0.105 | 81.6 | 84.0 | 74.0-127 | | | 2.90 | 20 |
| Chloroethane | 0.125 | 0.118 | 0.112 | 94.4 | 89.6 | 61.0-134 | | | 5.22 | 20 |
| Chloroform | 0.125 | 0.119 | 0.121 | 95.2 | 96.8 | 72.0-123 | | | 1.67 | 20 |
| Chloromethane | 0.125 | 0.138 | 0.158 | 110 | 126 | 51.0-138 | | | 13.5 | 20 |
| 2-Chlorotoluene | 0.125 | 0.117 | 0.124 | 93.6 | 99.2 | 75.0-124 | | | 5.81 | 20 |
| 4-Chlorotoluene | 0.125 | 0.132 | 0.134 | 106 | 107 | 75.0-124 | | | 1.50 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0947 | 0.104 | 75.8 | 83.2 | 59.0-130 | | | 9.36 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.105 | 0.104 | 84.0 | 83.2 | 74.0-128 | | | 0.957 | 20 |
| Dibromomethane | 0.125 | 0.107 | 0.110 | 85.6 | 88.0 | 75.0-122 | | | 2.76 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.116 | 0.119 | 92.8 | 95.2 | 76.0-124 | | | 2.55 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.114 | 0.116 | 91.2 | 92.8 | 76.0-125 | | | 1.74 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.111 | 0.113 | 88.8 | 90.4 | 77.0-121 | | | 1.79 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.125 | 0.131 | 100 | 105 | 43.0-156 | | | 4.69 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.140 | 0.152 | 112 | 122 | 70.0-127 | | | 8.22 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.149 | 0.150 | 119 | 120 | 65.0-131 | | | 0.669 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.123 | 0.119 | 98.4 | 95.2 | 65.0-131 | | | 3.31 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.122 | 0.125 | 97.6 | 100 | 73.0-125 | | | 2.43 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.119 | 0.125 | 95.2 | 100 | 71.0-125 | | | 4.92 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.149 | 0.157 | 119 | 126 | 74.0-125 | | J4 | 5.23 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.141 | 0.147 | 113 | 118 | 73.0-125 | | | 4.17 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.118 | 0.120 | 94.4 | 96.0 | 80.0-125 | | | 1.68 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.141 | 0.145 | 113 | 116 | 76.0-127 | | | 2.80 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.130 | 0.136 | 104 | 109 | 73.0-127 | | | 4.51 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.129 | 0.136 | 103 | 109 | 59.0-135 | | | 5.28 | 20 |
| Di-isopropyl ether | 0.125 | 0.159 | 0.160 | 127 | 128 | 60.0-136 | | | 0.627 | 20 |
| Ethylbenzene | 0.125 | 0.106 | 0.107 | 84.8 | 85.6 | 74.0-126 | | | 0.939 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.114 | 0.116 | 91.2 | 92.8 | 57.0-150 | | | 1.74 | 20 |
| Isopropylbenzene | 0.125 | 0.108 | 0.109 | 86.4 | 87.2 | 72.0-127 | | | 0.922 | 20 |
| p-Isopropyltoluene | 0.125 | 0.128 | 0.133 | 102 | 106 | 72.0-133 | | | 3.83 | 20 |
| 2-Butanone (MEK) | 0.625 | 1.05 | 1.05 | 168 | 168 | 30.0-160 | J4 | J4 | 0.000 | 24 |
| Methylene Chloride | 0.125 | 0.110 | 0.112 | 88.0 | 89.6 | 68.0-123 | | | 1.80 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.703 | 0.728 | 112 | 116 | 56.0-143 | | | 3.49 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.0978 | 0.0930 | 78.2 | 74.4 | 66.0-132 | | | 5.03 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074804-1 05/25/24 12:19 • (LCSD) R4074804-2 05/25/24 12:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0979 | 0.0988 | 78.3 | 79.0 | 59.0-130 | | | 0.915 | 20 |
| n-Propylbenzene | 0.125 | 0.125 | 0.139 | 100 | 111 | 74.0-126 | | | 10.6 | 20 |
| Styrene | 0.125 | 0.112 | 0.117 | 89.6 | 93.6 | 72.0-127 | | | 4.37 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.101 | 0.106 | 80.8 | 84.8 | 74.0-129 | | | 4.83 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.121 | 0.122 | 96.8 | 97.6 | 68.0-128 | | | 0.823 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.0776 | 0.0810 | 62.1 | 64.8 | 61.0-139 | | | 4.29 | 20 |
| Tetrachloroethene | 0.125 | 0.101 | 0.109 | 80.8 | 87.2 | 70.0-136 | | | 7.62 | 20 |
| Toluene | 0.125 | 0.120 | 0.124 | 96.0 | 99.2 | 75.0-121 | | | 3.28 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.111 | 0.114 | 88.8 | 91.2 | 59.0-139 | | | 2.67 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.106 | 0.107 | 84.8 | 85.6 | 62.0-137 | | | 0.939 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 69.0-126 | | | 1.65 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.110 | 0.113 | 88.0 | 90.4 | 78.0-123 | | | 2.69 | 20 |
| Trichloroethene | 0.125 | 0.113 | 0.120 | 90.4 | 96.0 | 76.0-126 | | | 6.01 | 20 |
| Trichlorofluoromethane | 0.125 | 0.0755 | 0.0867 | 60.4 | 69.4 | 61.0-142 | J4 | | 13.8 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.109 | 0.116 | 87.2 | 92.8 | 67.0-129 | | | 6.22 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.125 | 0.129 | 100 | 103 | 70.0-126 | | | 3.15 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.122 | 0.126 | 97.6 | 101 | 74.0-124 | | | 3.23 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.130 | 0.135 | 104 | 108 | 73.0-127 | | | 3.77 | 20 |
| Vinyl chloride | 0.125 | 0.130 | 0.133 | 104 | 106 | 63.0-134 | | | 2.28 | 20 |
| Xylenes, Total | 0.375 | 0.333 | 0.341 | 88.8 | 90.9 | 72.0-127 | | | 2.37 | 20 |
| *(S) Toluene-d8* | | | | *93.3* | *95.4* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *96.8* | *97.4* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *106* | *108* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075246-2 05/29/24 22:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

# QUALITY CONTROL SUMMARY

L1739342-02,03,09,10,14,15,17,21,22,24,29,31,33,36,38

## Method Blank (MB)

(MB) R4075246-2 05/29/24 22:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *83.7* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R4075246-1 05/29/24 20:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.558 | 89.3 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.548 | 87.7 | 45.0-153 | |
| Benzene | 0.125 | 0.117 | 93.6 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.104 | 83.2 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.0979 | 78.3 | 73.0-121 | |

## Laboratory Control Sample (LCS)

(LCS) R4075246-1 05/29/24 20:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.105 | 84.0 | 64.0-132 | |
| Bromomethane | 0.125 | 0.140 | 112 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.0989 | 79.1 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.0982 | 78.6 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.0987 | 79.0 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.127 | 102 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.121 | 96.8 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.109 | 87.2 | 74.0-127 | |
| Chloroethane | 0.125 | 0.142 | 114 | 61.0-134 | |
| Chloroform | 0.125 | 0.107 | 85.6 | 72.0-123 | |
| Chloromethane | 0.125 | 0.156 | 125 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.0975 | 78.0 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.0958 | 76.6 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0786 | 62.9 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.110 | 88.0 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.0998 | 79.8 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.104 | 83.2 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.107 | 85.6 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.0988 | 79.0 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.124 | 99.2 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.104 | 83.2 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.111 | 88.8 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.113 | 90.4 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.104 | 83.2 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.105 | 84.0 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.104 | 83.2 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.105 | 84.0 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.112 | 89.6 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.108 | 86.4 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.104 | 83.2 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.0861 | 68.9 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.120 | 96.0 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.113 | 90.4 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.0970 | 77.6 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.114 | 91.2 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.0967 | 77.4 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.637 | 102 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.101 | 80.8 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.596 | 95.4 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.0971 | 77.7 | 66.0-132 | |

## Laboratory Control Sample (LCS)

(LCS) R4075246-1 05/29/24 20:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0812 | 65.0 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.0984 | 78.7 | 74.0-126 | |
| Styrene | 0.125 | 0.135 | 108 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.111 | 88.8 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.0943 | 75.4 | 68.0-128 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.106 | 84.8 | 61.0-139 | |
| Tetrachloroethene | 0.125 | 0.119 | 95.2 | 70.0-136 | |
| Toluene | 0.125 | 0.110 | 88.0 | 75.0-121 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.101 | 80.8 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.0953 | 76.2 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.118 | 94.4 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.103 | 82.4 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.131 | 105 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.162 | 130 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.0930 | 74.4 | 67.0-129 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.0855 | 68.4 | 70.0-126 | J4 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.0906 | 72.5 | 74.0-124 | J4 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.0858 | 68.6 | 73.0-127 | J4 |
| Vinyl chloride | 0.125 | 0.151 | 121 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.316 | 84.3 | 72.0-127 | |
| *(S) Toluene-d8* | | | *105* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *102* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *93.3* | *70.0-130* | |

## Method Blank (MB)

(MB) R4075475-3 05/30/24 08:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4075475-3 05/30/24 08:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *99.3* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075475-1 05/30/24 07:17 • (LCSD) R4075475-2 05/30/24 07:36

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 1.45 | 1.41 | 232 | 226 | 10.0-160 | J4 | J4 | 2.80 | 31 |
| Acrylonitrile | 0.625 | 0.933 | 0.883 | 149 | 141 | 45.0-153 | | | 5.51 | 22 |
| Benzene | 0.125 | 0.110 | 0.107 | 88.0 | 85.6 | 70.0-123 | | | 2.76 | 20 |
| Bromobenzene | 0.125 | 0.109 | 0.104 | 87.2 | 83.2 | 73.0-121 | | | 4.69 | 20 |
| Bromodichloromethane | 0.125 | 0.117 | 0.112 | 93.6 | 89.6 | 73.0-121 | | | 4.37 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-26,34

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075475-1 05/30/24 07:17 • (LCSD) R4075475-2 05/30/24 07:36

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.109 | 0.110 | 87.2 | 88.0 | 64.0-132 | | | 0.913 | 20 |
| Bromomethane | 0.125 | 0.119 | 0.115 | 95.2 | 92.0 | 56.0-147 | | | 3.42 | 20 |
| n-Butylbenzene | 0.125 | 0.107 | 0.113 | 85.6 | 90.4 | 68.0-135 | | | 5.45 | 20 |
| sec-Butylbenzene | 0.125 | 0.121 | 0.121 | 96.8 | 96.8 | 74.0-130 | | | 0.000 | 20 |
| tert-Butylbenzene | 0.125 | 0.120 | 0.121 | 96.0 | 96.8 | 75.0-127 | | | 0.830 | 20 |
| Carbon tetrachloride | 0.125 | 0.125 | 0.128 | 100 | 102 | 66.0-128 | | | 2.37 | 20 |
| Chlorobenzene | 0.125 | 0.111 | 0.108 | 88.8 | 86.4 | 76.0-128 | | | 2.74 | 20 |
| Chlorodibromomethane | 0.125 | 0.110 | 0.107 | 88.0 | 85.6 | 74.0-127 | | | 2.76 | 20 |
| Chloroethane | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 61.0-134 | | | 2.45 | 20 |
| Chloroform | 0.125 | 0.108 | 0.108 | 86.4 | 86.4 | 72.0-123 | | | 0.000 | 20 |
| Chloromethane | 0.125 | 0.107 | 0.111 | 85.6 | 88.8 | 51.0-138 | | | 3.67 | 20 |
| 2-Chlorotoluene | 0.125 | 0.117 | 0.116 | 93.6 | 92.8 | 75.0-124 | | | 0.858 | 20 |
| 4-Chlorotoluene | 0.125 | 0.116 | 0.111 | 92.8 | 88.8 | 75.0-124 | | | 4.41 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 59.0-130 | | | 2.45 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.117 | 0.114 | 93.6 | 91.2 | 74.0-128 | | | 2.60 | 20 |
| Dibromomethane | 0.125 | 0.109 | 0.110 | 87.2 | 88.0 | 75.0-122 | | | 0.913 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.102 | 0.101 | 81.6 | 80.8 | 76.0-124 | | | 0.985 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.107 | 0.106 | 85.6 | 84.8 | 76.0-125 | | | 0.939 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.109 | 0.106 | 87.2 | 84.8 | 77.0-121 | | | 2.79 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.137 | 0.142 | 110 | 114 | 43.0-156 | | | 3.58 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.123 | 0.120 | 98.4 | 96.0 | 70.0-127 | | | 2.47 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.106 | 0.107 | 84.8 | 85.6 | 65.0-131 | | | 0.939 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.119 | 0.120 | 95.2 | 96.0 | 65.0-131 | | | 0.837 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.117 | 0.116 | 93.6 | 92.8 | 73.0-125 | | | 0.858 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.116 | 0.118 | 92.8 | 94.4 | 71.0-125 | | | 1.71 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.114 | 0.110 | 91.2 | 88.0 | 74.0-125 | | | 3.57 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.127 | 0.118 | 102 | 94.4 | 73.0-125 | | | 7.35 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.115 | 0.111 | 92.0 | 88.8 | 80.0-125 | | | 3.54 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.125 | 0.120 | 100 | 96.0 | 76.0-127 | | | 4.08 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.120 | 0.113 | 96.0 | 90.4 | 73.0-127 | | | 6.01 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.127 | 0.132 | 102 | 106 | 59.0-135 | | | 3.86 | 20 |
| Di-isopropyl ether | 0.125 | 0.121 | 0.119 | 96.8 | 95.2 | 60.0-136 | | | 1.67 | 20 |
| Ethylbenzene | 0.125 | 0.113 | 0.112 | 90.4 | 89.6 | 74.0-126 | | | 0.889 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.111 | 0.128 | 88.8 | 102 | 57.0-150 | | | 14.2 | 20 |
| Isopropylbenzene | 0.125 | 0.115 | 0.116 | 92.0 | 92.8 | 72.0-127 | | | 0.866 | 20 |
| p-Isopropyltoluene | 0.125 | 0.112 | 0.117 | 89.6 | 93.6 | 72.0-133 | | | 4.37 | 20 |
| 2-Butanone (MEK) | 0.625 | 1.06 | 1.07 | 170 | 171 | 30.0-160 | J4 | J4 | 0.939 | 24 |
| Methylene Chloride | 0.125 | 0.116 | 0.113 | 92.8 | 90.4 | 68.0-123 | | | 2.62 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.730 | 0.711 | 117 | 114 | 56.0-143 | | | 2.64 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.124 | 0.116 | 99.2 | 92.8 | 66.0-132 | | | 6.67 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075475-1 05/30/24 07:17 • (LCSD) R4075475-2 05/30/24 07:36

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0852 | 0.0932 | 68.2 | 74.6 | 59.0-130 | | | 8.97 | 20 |
| n-Propylbenzene | 0.125 | 0.123 | 0.119 | 98.4 | 95.2 | 74.0-126 | | | 3.31 | 20 |
| Styrene | 0.125 | 0.109 | 0.105 | 87.2 | 84.0 | 72.0-127 | | | 3.74 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.109 | 0.108 | 87.2 | 86.4 | 74.0-129 | | | 0.922 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.118 | 0.113 | 94.4 | 90.4 | 68.0-128 | | | 4.33 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.126 | 0.123 | 101 | 98.4 | 61.0-139 | | | 2.41 | 20 |
| Tetrachloroethene | 0.125 | 0.119 | 0.119 | 95.2 | 95.2 | 70.0-136 | | | 0.000 | 20 |
| Toluene | 0.125 | 0.111 | 0.107 | 88.8 | 85.6 | 75.0-121 | | | 3.67 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.0955 | 0.0983 | 76.4 | 78.6 | 59.0-139 | | | 2.89 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.0913 | 0.0990 | 73.0 | 79.2 | 62.0-137 | | | 8.09 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.127 | 0.127 | 102 | 102 | 69.0-126 | | | 0.000 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.116 | 0.111 | 92.8 | 88.8 | 78.0-123 | | | 4.41 | 20 |
| Trichloroethene | 0.125 | 0.121 | 0.117 | 96.8 | 93.6 | 76.0-126 | | | 3.36 | 20 |
| Trichlorofluoromethane | 0.125 | 0.150 | 0.152 | 120 | 122 | 61.0-142 | | | 1.32 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.128 | 0.119 | 102 | 95.2 | 67.0-129 | | | 7.29 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.107 | 0.106 | 85.6 | 84.8 | 70.0-126 | | | 0.939 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.102 | 0.103 | 81.6 | 82.4 | 74.0-124 | | | 0.976 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.111 | 0.112 | 88.8 | 89.6 | 73.0-127 | | | 0.897 | 20 |
| Vinyl chloride | 0.125 | 0.116 | 0.117 | 92.8 | 93.6 | 63.0-134 | | | 0.858 | 20 |
| Xylenes, Total | 0.375 | 0.333 | 0.334 | 88.8 | 89.1 | 72.0-127 | | | 0.300 | 20 |
| *(S) Toluene-d8* | | | | *100* | *99.6* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *103* | *103* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *98.5* | *98.8* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075616-3 05/30/24 13:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4075616-3 05/30/24 13:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *99.6* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *96.8* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075616-1 05/30/24 12:12 • (LCSD) R4075616-2 05/30/24 12:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.443 | 0.559 | 70.9 | 89.4 | 10.0-160 | | | 23.2 | 31 |
| Acrylonitrile | 0.625 | 0.512 | 0.571 | 81.9 | 91.4 | 45.0-153 | | | 10.9 | 22 |
| Benzene | 0.125 | 0.112 | 0.117 | 89.6 | 93.6 | 70.0-123 | | | 4.37 | 20 |
| Bromobenzene | 0.125 | 0.119 | 0.121 | 95.2 | 96.8 | 73.0-121 | | | 1.67 | 20 |
| Bromodichloromethane | 0.125 | 0.120 | 0.119 | 96.0 | 95.2 | 73.0-121 | | | 0.837 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-39

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075616-1 05/30/24 12:12 • (LCSD) R4075616-2 05/30/24 12:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.105 | 0.107 | 84.0 | 85.6 | 64.0-132 | | | 1.89 | 20 |
| Bromomethane | 0.125 | 0.104 | 0.125 | 83.2 | 100 | 56.0-147 | | | 18.3 | 20 |
| n-Butylbenzene | 0.125 | 0.115 | 0.126 | 92.0 | 101 | 68.0-135 | | | 9.13 | 20 |
| sec-Butylbenzene | 0.125 | 0.123 | 0.127 | 98.4 | 102 | 74.0-130 | | | 3.20 | 20 |
| tert-Butylbenzene | 0.125 | 0.122 | 0.123 | 97.6 | 98.4 | 75.0-127 | | | 0.816 | 20 |
| Carbon tetrachloride | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 66.0-128 | | | 2.45 | 20 |
| Chlorobenzene | 0.125 | 0.119 | 0.118 | 95.2 | 94.4 | 76.0-128 | | | 0.844 | 20 |
| Chlorodibromomethane | 0.125 | 0.119 | 0.114 | 95.2 | 91.2 | 74.0-127 | | | 4.29 | 20 |
| Chloroethane | 0.125 | 0.120 | 0.134 | 96.0 | 107 | 61.0-134 | | | 11.0 | 20 |
| Chloroform | 0.125 | 0.112 | 0.121 | 89.6 | 96.8 | 72.0-123 | | | 7.73 | 20 |
| Chloromethane | 0.125 | 0.125 | 0.126 | 100 | 101 | 51.0-138 | | | 0.797 | 20 |
| 2-Chlorotoluene | 0.125 | 0.119 | 0.122 | 95.2 | 97.6 | 75.0-124 | | | 2.49 | 20 |
| 4-Chlorotoluene | 0.125 | 0.112 | 0.115 | 89.6 | 92.0 | 75.0-124 | | | 2.64 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0891 | 0.0963 | 71.3 | 77.0 | 59.0-130 | | | 7.77 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.114 | 0.110 | 91.2 | 88.0 | 74.0-128 | | | 3.57 | 20 |
| Dibromomethane | 0.125 | 0.115 | 0.121 | 92.0 | 96.8 | 75.0-122 | | | 5.08 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.113 | 0.121 | 90.4 | 96.8 | 76.0-124 | | | 6.84 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.121 | 0.126 | 96.8 | 101 | 76.0-125 | | | 4.05 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.114 | 0.120 | 91.2 | 96.0 | 77.0-121 | | | 5.13 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.112 | 0.131 | 89.6 | 105 | 43.0-156 | | | 15.6 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.109 | 0.121 | 87.2 | 96.8 | 70.0-127 | | | 10.4 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.111 | 0.114 | 88.8 | 91.2 | 65.0-131 | | | 2.67 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.114 | 0.123 | 91.2 | 98.4 | 65.0-131 | | | 7.59 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.113 | 0.125 | 90.4 | 100 | 73.0-125 | | | 10.1 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.115 | 0.121 | 92.0 | 96.8 | 71.0-125 | | | 5.08 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.114 | 0.115 | 91.2 | 92.0 | 74.0-125 | | | 0.873 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.116 | 0.116 | 92.8 | 92.8 | 73.0-125 | | | 0.000 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.121 | 0.115 | 96.8 | 92.0 | 80.0-125 | | | 5.08 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.117 | 0.113 | 93.6 | 90.4 | 76.0-127 | | | 3.48 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.117 | 0.110 | 93.6 | 88.0 | 73.0-127 | | | 6.17 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.105 | 0.114 | 84.0 | 91.2 | 59.0-135 | | | 8.22 | 20 |
| Di-isopropyl ether | 0.125 | 0.114 | 0.118 | 91.2 | 94.4 | 60.0-136 | | | 3.45 | 20 |
| Ethylbenzene | 0.125 | 0.118 | 0.119 | 94.4 | 95.2 | 74.0-126 | | | 0.844 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.106 | 0.135 | 84.8 | 108 | 57.0-150 | | J3 | 24.1 | 20 |
| Isopropylbenzene | 0.125 | 0.113 | 0.121 | 90.4 | 96.8 | 72.0-127 | | | 6.84 | 20 |
| p-Isopropyltoluene | 0.125 | 0.121 | 0.129 | 96.8 | 103 | 72.0-133 | | | 6.40 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.589 | 0.633 | 94.2 | 101 | 30.0-160 | | | 7.20 | 24 |
| Methylene Chloride | 0.125 | 0.115 | 0.124 | 92.0 | 99.2 | 68.0-123 | | | 7.53 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.569 | 0.568 | 91.0 | 90.9 | 56.0-143 | | | 0.176 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.108 | 0.118 | 86.4 | 94.4 | 66.0-132 | | | 8.85 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075616-1 05/30/24 12:12 • (LCSD) R4075616-2 05/30/24 12:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.104 | 0.120 | 83.2 | 96.0 | 59.0-130 | | | 14.3 | 20 |
| n-Propylbenzene | 0.125 | 0.118 | 0.120 | 94.4 | 96.0 | 74.0-126 | | | 1.68 | 20 |
| Styrene | 0.125 | 0.112 | 0.117 | 89.6 | 93.6 | 72.0-127 | | | 4.37 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.117 | 0.121 | 93.6 | 96.8 | 74.0-129 | | | 3.36 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.111 | 0.108 | 88.8 | 86.4 | 68.0-128 | | | 2.74 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.105 | 0.123 | 84.0 | 98.4 | 61.0-139 | | | 15.8 | 20 |
| Tetrachloroethene | 0.125 | 0.126 | 0.124 | 101 | 99.2 | 70.0-136 | | | 1.60 | 20 |
| Toluene | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 75.0-121 | | | 0.881 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.103 | 0.125 | 82.4 | 100 | 59.0-139 | | | 19.3 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.102 | 0.119 | 81.6 | 95.2 | 62.0-137 | | | 15.4 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.120 | 0.129 | 96.0 | 103 | 69.0-126 | | | 7.23 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.116 | 0.114 | 92.8 | 91.2 | 78.0-123 | | | 1.74 | 20 |
| Trichloroethene | 0.125 | 0.105 | 0.112 | 84.0 | 89.6 | 76.0-126 | | | 6.45 | 20 |
| Trichlorofluoromethane | 0.125 | 0.119 | 0.131 | 95.2 | 105 | 61.0-142 | | | 9.60 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.122 | 0.115 | 97.6 | 92.0 | 67.0-129 | | | 5.91 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.117 | 0.127 | 93.6 | 102 | 70.0-126 | | | 8.20 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.114 | 0.121 | 91.2 | 96.8 | 74.0-124 | | | 5.96 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.119 | 0.125 | 95.2 | 100 | 73.0-127 | | | 4.92 | 20 |
| Vinyl chloride | 0.125 | 0.129 | 0.139 | 103 | 111 | 63.0-134 | | | 7.46 | 20 |
| Xylenes, Total | 0.375 | 0.334 | 0.348 | 89.1 | 92.8 | 72.0-127 | | | 4.11 | 20 |
| *(S) Toluene-d8* | | | | *100* | *96.7* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *95.7* | *99.0* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *99.4* | *102* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4077614-3 06/04/24 15:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

Cp
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## Method Blank (MB)

(MB) R4077614-3 06/04/24 15:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *99.9* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *95.7* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077614-1 06/04/24 13:42 • (LCSD) R4077614-2 06/04/24 14:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.798 | 0.847 | 128 | 136 | 10.0-160 | | | 5.96 | 31 |
| Acrylonitrile | 0.625 | 0.831 | 0.828 | 133 | 132 | 45.0-153 | | | 0.362 | 22 |
| Benzene | 0.125 | 0.131 | 0.130 | 105 | 104 | 70.0-123 | | | 0.766 | 20 |
| Bromobenzene | 0.125 | 0.129 | 0.132 | 103 | 106 | 73.0-121 | | | 2.30 | 20 |
| Bromodichloromethane | 0.125 | 0.133 | 0.130 | 106 | 104 | 73.0-121 | | | 2.28 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077614-1 06/04/24 13:42 • (LCSD) R4077614-2 06/04/24 14:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.116 | 0.119 | 92.8 | 95.2 | 64.0-132 | | | 2.55 | 20 |
| Bromomethane | 0.125 | 0.122 | 0.116 | 97.6 | 92.8 | 56.0-147 | | | 5.04 | 20 |
| n-Butylbenzene | 0.125 | 0.143 | 0.141 | 114 | 113 | 68.0-135 | | | 1.41 | 20 |
| sec-Butylbenzene | 0.125 | 0.138 | 0.138 | 110 | 110 | 74.0-130 | | | 0.000 | 20 |
| tert-Butylbenzene | 0.125 | 0.145 | 0.144 | 116 | 115 | 75.0-127 | | | 0.692 | 20 |
| Carbon tetrachloride | 0.125 | 0.140 | 0.138 | 112 | 110 | 66.0-128 | | | 1.44 | 20 |
| Chlorobenzene | 0.125 | 0.131 | 0.130 | 105 | 104 | 76.0-128 | | | 0.766 | 20 |
| Chlorodibromomethane | 0.125 | 0.129 | 0.128 | 103 | 102 | 74.0-127 | | | 0.778 | 20 |
| Chloroethane | 0.125 | 0.128 | 0.123 | 102 | 98.4 | 61.0-134 | | | 3.98 | 20 |
| Chloroform | 0.125 | 0.125 | 0.124 | 100 | 99.2 | 72.0-123 | | | 0.803 | 20 |
| Chloromethane | 0.125 | 0.143 | 0.138 | 114 | 110 | 51.0-138 | | | 3.56 | 20 |
| 2-Chlorotoluene | 0.125 | 0.134 | 0.134 | 107 | 107 | 75.0-124 | | | 0.000 | 20 |
| 4-Chlorotoluene | 0.125 | 0.132 | 0.130 | 106 | 104 | 75.0-124 | | | 1.53 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.125 | 0.129 | 100 | 103 | 59.0-130 | | | 3.15 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.136 | 0.139 | 109 | 111 | 74.0-128 | | | 2.18 | 20 |
| Dibromomethane | 0.125 | 0.133 | 0.135 | 106 | 108 | 75.0-122 | | | 1.49 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.140 | 0.142 | 112 | 114 | 76.0-124 | | | 1.42 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.139 | 0.136 | 111 | 109 | 76.0-125 | | | 2.18 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.136 | 0.137 | 109 | 110 | 77.0-121 | | | 0.733 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.173 | 0.167 | 138 | 134 | 43.0-156 | | | 3.53 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.137 | 0.135 | 110 | 108 | 70.0-127 | | | 1.47 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.123 | 0.121 | 98.4 | 96.8 | 65.0-131 | | | 1.64 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.140 | 0.137 | 112 | 110 | 65.0-131 | | | 2.17 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.126 | 0.122 | 101 | 97.6 | 73.0-125 | | | 3.23 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.130 | 0.128 | 104 | 102 | 71.0-125 | | | 1.55 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.138 | 0.135 | 110 | 108 | 74.0-125 | | | 2.20 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.137 | 0.134 | 110 | 107 | 73.0-125 | | | 2.21 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.139 | 0.138 | 111 | 110 | 80.0-125 | | | 0.722 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.141 | 0.140 | 113 | 112 | 76.0-127 | | | 0.712 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.140 | 0.140 | 112 | 112 | 73.0-127 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.135 | 0.131 | 108 | 105 | 59.0-135 | | | 3.01 | 20 |
| Di-isopropyl ether | 0.125 | 0.135 | 0.134 | 108 | 107 | 60.0-136 | | | 0.743 | 20 |
| Ethylbenzene | 0.125 | 0.132 | 0.131 | 106 | 105 | 74.0-126 | | | 0.760 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.145 | 0.142 | 116 | 114 | 57.0-150 | | | 2.09 | 20 |
| Isopropylbenzene | 0.125 | 0.134 | 0.134 | 107 | 107 | 72.0-127 | | | 0.000 | 20 |
| p-Isopropyltoluene | 0.125 | 0.136 | 0.138 | 109 | 110 | 72.0-133 | | | 1.46 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.838 | 0.871 | 134 | 139 | 30.0-160 | | | 3.86 | 24 |
| Methylene Chloride | 0.125 | 0.131 | 0.124 | 105 | 99.2 | 68.0-123 | | | 5.49 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.752 | 0.769 | 120 | 123 | 56.0-143 | | | 2.24 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.134 | 0.138 | 107 | 110 | 66.0-132 | | | 2.94 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077614-1 06/04/24 13:42 • (LCSD) R4077614-2 06/04/24 14:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.132 | 0.138 | 106 | 110 | 59.0-130 | | | 4.44 | 20 |
| n-Propylbenzene | 0.125 | 0.136 | 0.137 | 109 | 110 | 74.0-126 | | | 0.733 | 20 |
| Styrene | 0.125 | 0.129 | 0.130 | 103 | 104 | 72.0-127 | | | 0.772 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.125 | 0.127 | 100 | 102 | 74.0-129 | | | 1.59 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.136 | 0.138 | 109 | 110 | 68.0-128 | | | 1.46 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.150 | 0.146 | 120 | 117 | 61.0-139 | | | 2.70 | 20 |
| Tetrachloroethene | 0.125 | 0.137 | 0.132 | 110 | 106 | 70.0-136 | | | 3.72 | 20 |
| Toluene | 0.125 | 0.125 | 0.124 | 100 | 99.2 | 75.0-121 | | | 0.803 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.133 | 0.132 | 106 | 106 | 59.0-139 | | | 0.755 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.143 | 0.142 | 114 | 114 | 62.0-137 | | | 0.702 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.143 | 0.140 | 114 | 112 | 69.0-126 | | | 2.12 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.134 | 0.134 | 107 | 107 | 78.0-123 | | | 0.000 | 20 |
| Trichloroethene | 0.125 | 0.137 | 0.136 | 110 | 109 | 76.0-126 | | | 0.733 | 20 |
| Trichlorofluoromethane | 0.125 | 0.142 | 0.136 | 114 | 109 | 61.0-142 | | | 4.32 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.138 | 0.133 | 110 | 106 | 67.0-129 | | | 3.69 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.131 | 0.130 | 105 | 104 | 70.0-126 | | | 0.766 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.126 | 0.129 | 101 | 103 | 74.0-124 | | | 2.35 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.129 | 0.133 | 103 | 106 | 73.0-127 | | | 3.05 | 20 |
| Vinyl chloride | 0.125 | 0.125 | 0.121 | 100 | 96.8 | 63.0-134 | | | 3.25 | 20 |
| Xylenes, Total | 0.375 | 0.408 | 0.402 | 109 | 107 | 72.0-127 | | | 1.48 | 20 |
| *(S) Toluene-d8* | | | | *98.4* | *99.9* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *103* | *104* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *99.7* | *99.5* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075310-3 05/30/24 10:15

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

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## Method Blank (MB)

(MB) R4075310-3 05/30/24 10:15

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *110* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *117* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075310-1 05/30/24 09:12 • (LCSD) R4075310-2 05/30/24 09:33

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 13.2 | 13.3 | 52.8 | 53.2 | 19.0-160 | J | J | 0.755 | 27 |
| Acrolein | 25.0 | 22.2 | 23.2 | 88.8 | 92.8 | 10.0-160 | J | J | 4.41 | 26 |
| Acrylonitrile | 25.0 | 24.9 | 25.7 | 99.6 | 103 | 55.0-149 | | | 3.16 | 20 |
| Benzene | 5.00 | 4.97 | 4.94 | 99.4 | 98.8 | 70.0-123 | | | 0.605 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-19,42,43

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075310-1 05/30/24 09:12 • (LCSD) R4075310-2 05/30/24 09:33

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 4.71 | 4.58 | 94.2 | 91.6 | 73.0-121 | | | 2.80 | 20 |
| Bromodichloromethane | 5.00 | 5.30 | 5.30 | 106 | 106 | 75.0-120 | | | 0.000 | 20 |
| Bromoform | 5.00 | 4.98 | 5.11 | 99.6 | 102 | 68.0-132 | | | 2.58 | 20 |
| Bromomethane | 5.00 | 3.14 | 3.46 | 62.8 | 69.2 | 10.0-160 | J | J | 9.70 | 25 |
| n-Butylbenzene | 5.00 | 4.44 | 4.66 | 88.8 | 93.2 | 73.0-125 | | | 4.84 | 20 |
| sec-Butylbenzene | 5.00 | 4.53 | 4.60 | 90.6 | 92.0 | 75.0-125 | | | 1.53 | 20 |
| tert-Butylbenzene | 5.00 | 5.01 | 4.96 | 100 | 99.2 | 76.0-124 | | | 1.00 | 20 |
| Carbon tetrachloride | 5.00 | 5.97 | 6.14 | 119 | 123 | 68.0-126 | | | 2.81 | 20 |
| Chlorobenzene | 5.00 | 4.81 | 4.75 | 96.2 | 95.0 | 80.0-121 | | | 1.26 | 20 |
| Chlorodibromomethane | 5.00 | 5.42 | 5.19 | 108 | 104 | 77.0-125 | | | 4.34 | 20 |
| Chloroethane | 5.00 | 4.65 | 4.48 | 93.0 | 89.6 | 47.0-150 | J | J | 3.72 | 20 |
| Chloroform | 5.00 | 5.24 | 5.66 | 105 | 113 | 73.0-120 | | | 7.71 | 20 |
| Chloromethane | 5.00 | 4.70 | 4.62 | 94.0 | 92.4 | 41.0-142 | | | 1.72 | 20 |
| 2-Chlorotoluene | 5.00 | 4.61 | 4.68 | 92.2 | 93.6 | 76.0-123 | | | 1.51 | 20 |
| 4-Chlorotoluene | 5.00 | 4.57 | 4.63 | 91.4 | 92.6 | 75.0-122 | | | 1.30 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.35 | 4.41 | 87.0 | 88.2 | 58.0-134 | J | J | 1.37 | 20 |
| 1,2-Dibromoethane | 5.00 | 5.09 | 4.98 | 102 | 99.6 | 80.0-122 | | | 2.18 | 20 |
| Dibromomethane | 5.00 | 5.06 | 5.01 | 101 | 100 | 80.0-120 | | | 0.993 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 4.90 | 5.22 | 98.0 | 104 | 79.0-121 | | | 6.32 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.75 | 4.72 | 95.0 | 94.4 | 79.0-120 | | | 0.634 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 4.85 | 4.87 | 97.0 | 97.4 | 79.0-120 | | | 0.412 | 20 |
| Dichlorodifluoromethane | 5.00 | 6.00 | 5.74 | 120 | 115 | 51.0-149 | | | 4.43 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.25 | 5.04 | 105 | 101 | 70.0-126 | | | 4.08 | 20 |
| 1,2-Dichloroethane | 5.00 | 5.91 | 5.57 | 118 | 111 | 70.0-128 | | | 5.92 | 20 |
| 1,1-Dichloroethene | 5.00 | 4.79 | 4.84 | 95.8 | 96.8 | 71.0-124 | | | 1.04 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.99 | 5.00 | 99.8 | 100 | 73.0-120 | | | 0.200 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 4.92 | 4.53 | 98.4 | 90.6 | 73.0-120 | | | 8.25 | 20 |
| 1,2-Dichloropropane | 5.00 | 4.90 | 4.84 | 98.0 | 96.8 | 77.0-125 | | | 1.23 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.35 | 5.37 | 107 | 107 | 74.0-126 | | | 0.373 | 20 |
| 1,3-Dichloropropane | 5.00 | 4.92 | 5.01 | 98.4 | 100 | 80.0-120 | | | 1.81 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.96 | 5.11 | 99.2 | 102 | 80.0-123 | | | 2.98 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 5.09 | 4.91 | 102 | 98.2 | 78.0-124 | | | 3.60 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.88 | 4.75 | 97.6 | 95.0 | 58.0-130 | | | 2.70 | 20 |
| Di-isopropyl ether | 5.00 | 5.27 | 5.16 | 105 | 103 | 58.0-138 | | | 2.11 | 20 |
| Ethylbenzene | 5.00 | 4.71 | 4.56 | 94.2 | 91.2 | 79.0-123 | | | 3.24 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 5.00 | 5.13 | 100 | 103 | 54.0-138 | | | 2.57 | 20 |
| Isopropylbenzene | 5.00 | 5.11 | 4.95 | 102 | 99.0 | 76.0-127 | | | 3.18 | 20 |
| p-Isopropyltoluene | 5.00 | 4.77 | 4.77 | 95.4 | 95.4 | 76.0-125 | | | 0.000 | 20 |
| 2-Butanone (MEK) | 25.0 | 15.2 | 15.0 | 60.8 | 60.0 | 44.0-160 | | | 1.32 | 20 |
| Methylene Chloride | 5.00 | 4.62 | 4.77 | 92.4 | 95.4 | 67.0-120 | J | J | 3.19 | 20 |

# QUALITY CONTROL SUMMARY

L1739342-19,42,43

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075310-1 05/30/24 09:12 • (LCSD) R4075310-2 05/30/24 09:33

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 26.2 | 26.4 | 105 | 106 | 68.0-142 | | | 0.760 | 20 |
| Methyl tert-butyl ether | 5.00 | 5.47 | 5.63 | 109 | 113 | 68.0-125 | | | 2.88 | 20 |
| Naphthalene | 5.00 | 4.00 | 3.98 | 80.0 | 79.6 | 54.0-135 | J | J | 0.501 | 20 |
| n-Propylbenzene | 5.00 | 4.63 | 4.60 | 92.6 | 92.0 | 77.0-124 | | | 0.650 | 20 |
| Styrene | 5.00 | 4.72 | 4.77 | 94.4 | 95.4 | 73.0-130 | | | 1.05 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.03 | 4.85 | 101 | 97.0 | 75.0-125 | | | 3.64 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.55 | 4.73 | 91.0 | 94.6 | 65.0-130 | | | 3.88 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 4.91 | 5.00 | 98.2 | 100 | 69.0-132 | | | 1.82 | 20 |
| Tetrachloroethene | 5.00 | 5.14 | 5.28 | 103 | 106 | 72.0-132 | | | 2.69 | 20 |
| Toluene | 5.00 | 4.70 | 4.48 | 94.0 | 89.6 | 79.0-120 | | | 4.79 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 5.08 | 4.99 | 102 | 99.8 | 50.0-138 | | | 1.79 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.59 | 4.71 | 91.8 | 94.2 | 57.0-137 | | | 2.58 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 6.01 | 5.78 | 120 | 116 | 73.0-124 | | | 3.90 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.81 | 4.84 | 96.2 | 96.8 | 80.0-120 | | | 0.622 | 20 |
| Trichloroethene | 5.00 | 5.12 | 5.12 | 102 | 102 | 78.0-124 | | | 0.000 | 20 |
| Trichlorofluoromethane | 5.00 | 6.17 | 5.94 | 123 | 119 | 59.0-147 | | | 3.80 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 4.92 | 4.86 | 98.4 | 97.2 | 73.0-130 | | | 1.23 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.64 | 4.65 | 92.8 | 93.0 | 76.0-121 | | | 0.215 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.83 | 4.77 | 96.6 | 95.4 | 77.0-120 | | | 1.25 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.83 | 4.67 | 96.6 | 93.4 | 76.0-122 | | | 3.37 | 20 |
| Vinyl chloride | 5.00 | 4.80 | 4.65 | 96.0 | 93.0 | 67.0-131 | | | 3.17 | 20 |
| Xylenes, Total | 15.0 | 14.4 | 13.8 | 96.0 | 92.0 | 79.0-123 | | | 4.26 | 20 |
| *(S) Toluene-d8* | | | | *101* | *102* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *108* | *109* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *118* | *115* | *70.0-130* | | | | |

## L1739246-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739246-05 05/30/24 20:47 • (MS) R4075310-4 05/30/24 21:29 • (MSD) R4075310-5 05/30/24 21:49

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 250 | U | 124 | 126 | 49.6 | 50.4 | 10 | 10.0-160 | | | 1.60 | 35 |
| Acrolein | 250 | U | 135 | 126 | 54.0 | 50.4 | 10 | 10.0-160 | J | J | 6.90 | 39 |
| Acrylonitrile | 250 | U | 209 | 216 | 83.6 | 86.4 | 10 | 21.0-160 | | | 3.29 | 32 |
| Benzene | 50.0 | U | 32.8 | 42.5 | 65.6 | 85.0 | 10 | 17.0-158 | | | 25.8 | 27 |
| Bromobenzene | 50.0 | 1.45 | 39.9 | 46.2 | 76.9 | 89.5 | 10 | 30.0-149 | | | 14.6 | 28 |
| Bromodichloromethane | 50.0 | U | 28.8 | 34.3 | 57.6 | 68.6 | 10 | 31.0-150 | | | 17.4 | 27 |
| Bromoform | 50.0 | U | 23.8 | 25.5 | 47.6 | 51.0 | 10 | 29.0-150 | | | 6.90 | 29 |
| Bromomethane | 50.0 | U | 28.9 | 35.4 | 57.8 | 70.8 | 10 | 10.0-160 | | | 20.2 | 38 |

## L1739246-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739246-05 05/30/24 20:47 • (MS) R4075310-4 05/30/24 21:29 • (MSD) R4075310-5 05/30/24 21:49

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 50.0 | U | 32.7 | 40.5 | 65.4 | 81.0 | 10 | 31.0-150 | | | 21.3 | 30 |
| sec-Butylbenzene | 50.0 | U | 31.2 | 39.4 | 62.4 | 78.8 | 10 | 33.0-155 | | | 23.2 | 29 |
| tert-Butylbenzene | 50.0 | U | 33.7 | 42.0 | 67.4 | 84.0 | 10 | 34.0-153 | | | 21.9 | 28 |
| Carbon tetrachloride | 50.0 | U | 12.6 | 18.8 | 25.2 | 37.6 | 10 | 23.0-159 | | J3 | 39.5 | 28 |
| Chlorobenzene | 50.0 | U | 34.5 | 40.7 | 69.0 | 81.4 | 10 | 33.0-152 | | | 16.5 | 27 |
| Chlorodibromomethane | 50.0 | U | 23.2 | 26.1 | 46.4 | 52.2 | 10 | 37.0-149 | | | 11.8 | 27 |
| Chloroethane | 50.0 | U | 28.5 | 38.7 | 57.0 | 77.4 | 10 | 10.0-160 | | J3 | 30.4 | 30 |
| Chloroform | 50.0 | U | 39.8 | 48.0 | 79.6 | 96.0 | 10 | 29.0-154 | | | 18.7 | 28 |
| Chloromethane | 50.0 | U | 25.4 | 32.0 | 50.8 | 64.0 | 10 | 10.0-160 | | | 23.0 | 29 |
| 2-Chlorotoluene | 50.0 | U | 34.0 | 44.6 | 68.0 | 89.2 | 10 | 32.0-153 | | | 27.0 | 28 |
| 4-Chlorotoluene | 50.0 | U | 37.5 | 43.8 | 75.0 | 87.6 | 10 | 32.0-150 | | | 15.5 | 28 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | U | 37.1 | 38.4 | 74.2 | 76.8 | 10 | 22.0-151 | J | J | 3.44 | 34 |
| 1,2-Dibromoethane | 50.0 | U | 37.5 | 39.9 | 75.0 | 79.8 | 10 | 34.0-147 | | | 6.20 | 27 |
| Dibromomethane | 50.0 | U | 40.0 | 43.0 | 80.0 | 86.0 | 10 | 30.0-151 | | | 7.23 | 27 |
| 1,2-Dichlorobenzene | 50.0 | U | 36.9 | 42.6 | 73.8 | 85.2 | 10 | 34.0-149 | | | 14.3 | 28 |
| 1,3-Dichlorobenzene | 50.0 | U | 33.8 | 41.6 | 67.6 | 83.2 | 10 | 36.0-146 | | | 20.7 | 27 |
| 1,4-Dichlorobenzene | 50.0 | U | 36.7 | 42.7 | 73.4 | 85.4 | 10 | 35.0-142 | | | 15.1 | 27 |
| Dichlorodifluoromethane | 50.0 | U | 33.8 | 48.4 | 67.6 | 96.8 | 10 | 10.0-160 | J | J J3 | 35.5 | 29 |
| 1,1-Dichloroethane | 50.0 | U | 36.5 | 44.7 | 73.0 | 89.4 | 10 | 25.0-158 | | | 20.2 | 27 |
| 1,2-Dichloroethane | 50.0 | U | 37.9 | 43.1 | 75.8 | 86.2 | 10 | 29.0-151 | | | 12.8 | 27 |
| 1,1-Dichloroethene | 50.0 | 5.88 | 42.8 | 53.0 | 73.8 | 94.2 | 10 | 11.0-160 | | | 21.3 | 29 |
| cis-1,2-Dichloroethene | 50.0 | 39.6 | 72.3 | 80.8 | 65.4 | 82.4 | 10 | 10.0-160 | | | 11.1 | 27 |
| trans-1,2-Dichloroethene | 50.0 | U | 30.9 | 38.6 | 61.8 | 77.2 | 10 | 17.0-153 | | | 22.2 | 27 |
| 1,2-Dichloropropane | 50.0 | U | 39.4 | 46.7 | 78.8 | 93.4 | 10 | 30.0-156 | | | 17.0 | 27 |
| 1,1-Dichloropropene | 50.0 | U | 35.2 | 44.5 | 70.4 | 89.0 | 10 | 25.0-158 | | | 23.3 | 27 |
| 1,3-Dichloropropane | 50.0 | U | 39.0 | 42.6 | 78.0 | 85.2 | 10 | 38.0-147 | | | 8.82 | 27 |
| cis-1,3-Dichloropropene | 50.0 | U | 33.5 | 38.3 | 67.0 | 76.6 | 10 | 34.0-149 | | | 13.4 | 28 |
| trans-1,3-Dichloropropene | 50.0 | U | 32.4 | 36.3 | 64.8 | 72.6 | 10 | 32.0-149 | | | 11.4 | 28 |
| 2,2-Dichloropropane | 50.0 | U | 24.9 | 30.6 | 49.8 | 61.2 | 10 | 24.0-152 | | | 20.5 | 29 |
| Di-isopropyl ether | 50.0 | U | 40.7 | 46.0 | 81.4 | 92.0 | 10 | 21.0-160 | | | 12.2 | 28 |
| Ethylbenzene | 50.0 | U | 31.9 | 39.4 | 63.8 | 78.8 | 10 | 30.0-155 | | | 21.0 | 27 |
| Hexachloro-1,3-butadiene | 50.0 | U | 13.9 | 20.7 | 27.8 | 41.4 | 10 | 20.0-154 | | J3 | 39.3 | 34 |
| Isopropylbenzene | 50.0 | U | 31.0 | 39.5 | 62.0 | 79.0 | 10 | 28.0-157 | | | 24.1 | 27 |
| p-Isopropyltoluene | 50.0 | U | 30.3 | 38.2 | 60.6 | 76.4 | 10 | 30.0-154 | | | 23.1 | 29 |
| 2-Butanone (MEK) | 250 | U | 139 | 142 | 55.6 | 56.8 | 10 | 10.0-160 | | | 2.14 | 32 |
| Methylene Chloride | 50.0 | U | 33.6 | 38.9 | 67.2 | 77.8 | 10 | 23.0-144 | | | 14.6 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 250 | U | 237 | 240 | 94.8 | 96.0 | 10 | 29.0-160 | | | 1.26 | 29 |
| Methyl tert-butyl ether | 50.0 | U | 42.9 | 43.1 | 85.8 | 86.2 | 10 | 28.0-150 | | | 0.465 | 29 |
| Naphthalene | 50.0 | U | 15.1 | 19.4 | 30.2 | 38.8 | 10 | 12.0-156 | J | J | 24.9 | 35 |
| n-Propylbenzene | 50.0 | U | 34.6 | 43.1 | 69.2 | 86.2 | 10 | 31.0-154 | | | 21.9 | 28 |

# QUALITY CONTROL SUMMARY

L1739342-19,42,43

## L1739246-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739246-05 05/30/24 20:47 • (MS) R4075310-4 05/30/24 21:29 • (MSD) R4075310-5 05/30/24 21:49

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | 50.0 | U | 35.0 | 42.2 | 70.0 | 84.4 | 10 | 33.0-155 | | | 18.7 | 28 |
| 1,1,1,2-Tetrachloroethane | 50.0 | U | 31.2 | 35.9 | 62.4 | 71.8 | 10 | 36.0-151 | | | 14.0 | 29 |
| 1,1,2,2-Tetrachloroethane | 50.0 | U | 45.6 | 47.5 | 91.2 | 95.0 | 10 | 33.0-150 | | | 4.08 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 50.0 | 16.1 | 42.7 | 61.2 | 53.2 | 90.2 | 10 | 23.0-160 | | J3 | 35.6 | 30 |
| Tetrachloroethene | 50.0 | U | 31.3 | 40.2 | 62.6 | 80.4 | 10 | 10.0-160 | | | 24.9 | 27 |
| Toluene | 50.0 | U | 32.2 | 39.2 | 64.4 | 78.4 | 10 | 26.0-154 | | | 19.6 | 28 |
| 1,2,3-Trichlorobenzene | 50.0 | U | 3.93 | 5.25 | 7.86 | 10.5 | 10 | 17.0-150 | J J6 | J J6 | 28.8 | 36 |
| 1,2,4-Trichlorobenzene | 50.0 | U | 18.2 | 21.3 | 36.4 | 42.6 | 10 | 24.0-150 | | | 15.7 | 33 |
| 1,1,1-Trichloroethane | 50.0 | U | 34.3 | 45.3 | 68.6 | 90.6 | 10 | 23.0-160 | | | 27.6 | 28 |
| 1,1,2-Trichloroethane | 50.0 | U | 40.0 | 41.6 | 80.0 | 83.2 | 10 | 35.0-147 | | | 3.92 | 27 |
| Trichloroethene | 50.0 | 115 | 138 | 148 | 46.0 | 66.0 | 10 | 10.0-160 | | | 6.99 | 25 |
| Trichlorofluoromethane | 50.0 | U | 34.7 | 47.4 | 69.4 | 94.8 | 10 | 17.0-160 | J | J | 30.9 | 31 |
| 1,2,3-Trichloropropane | 50.0 | U | 45.9 | 47.7 | 91.8 | 95.4 | 10 | 34.0-151 | | | 3.85 | 29 |
| 1,2,4-Trimethylbenzene | 50.0 | U | 33.3 | 40.5 | 66.6 | 81.0 | 10 | 26.0-154 | | | 19.5 | 27 |
| 1,2,3-Trimethylbenzene | 50.0 | U | 34.4 | 40.8 | 68.8 | 81.6 | 10 | 32.0-149 | | | 17.0 | 28 |
| 1,3,5-Trimethylbenzene | 50.0 | U | 33.8 | 43.5 | 67.6 | 87.0 | 10 | 28.0-153 | | | 25.1 | 27 |
| Vinyl chloride | 50.0 | U | 28.8 | 38.3 | 57.6 | 76.6 | 10 | 10.0-160 | | J3 | 28.3 | 27 |
| Xylenes, Total | 150 | U | 95.1 | 117 | 63.4 | 78.0 | 10 | 29.0-154 | | | 20.7 | 28 |
| *(S) Toluene-d8* | | | | | *105* | *103* | | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *105* | *106* | | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *105* | *105* | | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4076211-3 06/01/24 01:18

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *61.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076211-1 06/01/24 00:34 • (LCSD) R4076211-2 06/01/24 00:58

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 809 | 819 | 108 | 109 | 50.0-150 | | | 1.23 | 20 |
| C22-C32 Hydrocarbons | 750 | 684 | 688 | 91.2 | 91.7 | 50.0-150 | | | 0.583 | 20 |
| *(S) o-Terphenyl* | | | | *66.0* | *65.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4073924-1 05/24/24 15:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *82.0* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4073924-2 05/24/24 15:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 21.2 | 84.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 16.9 | 67.6 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *79.6* | *18.0-148* | |

## L1735386-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735386-07 05/24/24 15:29 • (MS) R4073924-3 05/24/24 15:43 • (MSD) R4073924-4 05/24/24 15:57

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 28.1 | U | 23.5 | 23.0 | 83.6 | 82.0 | 1 | 50.0-150 | | | 1.93 | 20 |
| C22-C32 Hydrocarbons | 28.1 | U | 20.5 | 22.0 | 72.8 | 78.4 | 1 | 50.0-150 | | | 7.41 | 20 |
| *(S) o-Terphenyl* | | | | | *74.0* | *72.5* | | *18.0-148* | | | | |

# QUALITY CONTROL SUMMARY

L1739342-03,05,10,12,15,17,22,24,27,29

## Method Blank (MB)

(MB) R4075425-1 05/30/24 11:26

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *83.3* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4075425-2 05/30/24 11:40

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 19.2 | 76.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.0 | 68.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *63.7* | *18.0-148* | |

## L1739342-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-03 05/30/24 15:34 • (MS) R4075425-3 05/30/24 15:48 • (MSD) R4075425-4 05/30/24 16:04

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 26.9 | 1.04 | 20.2 | 18.1 | 71.2 | 63.2 | 1 | 50.0-150 | | | 10.9 | 20 |
| C22-C32 Hydrocarbons | 26.9 | 4.01 | 22.8 | 24.9 | 70.0 | 77.4 | 1 | 50.0-150 | | | 8.74 | 20 |
| *(S) o-Terphenyl* | | | | | *55.0* | *46.5* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4075628-1 05/30/24 16:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *63.4* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4075628-2 05/30/24 16:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 16.7 | 66.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 15.1 | 60.4 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *57.7* | *18.0-148* | |

## L1739664-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739664-18 05/31/24 11:11 • (MS) R4075925-1 05/31/24 11:25 • (MSD) R4075925-2 05/31/24 11:39

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 23.9 | 54.8 | 73.8 | 96.2 | 66.9 | 141 | 40 | 50.0-150 | J | J J3 | 26.3 | 20 |
| C22-C32 Hydrocarbons | 23.9 | 334 | 300 | 375 | 0.000 | 141 | 40 | 50.0-150 | V | J3 | 22.5 | 20 |
| *(S) o-Terphenyl* | | | | | *89.5* | *87.3* | | *18.0-148* | J7 | J7 | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract.

## Method Blank (MB)

(MB) R4078216-1 06/06/24 13:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *92.6* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4078216-2 06/06/24 14:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 22.2 | 88.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.9 | 71.6 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *67.9* | *18.0-148* | |

## L1739342-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-28 06/06/24 19:28 • (MS) R4078216-3 06/06/24 19:42 • (MSD) R4078216-4 06/06/24 19:57

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 24.8 | U | U | U | 0.000 | 0.000 | 100 | 50.0-150 | J6 | J6 | 0.000 | 20 |
| C22-C32 Hydrocarbons | 24.8 | 1060 | 983 | 1000 | 0.000 | 0.000 | 100 | 50.0-150 | V | V | 2.16 | 20 |
| *(S) o-Terphenyl* | | | | | *90.3* | *88.6* | | *18.0-148* | J7 | J7 | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract

# QUALITY CONTROL SUMMARY

L1739342-01,08,09,13,14,20,25,32,37

## Method Blank (MB)

(MB) R4075548-1 05/30/24 14:34

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *84.5* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *83.6* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4075548-3 05/30/24 14:52

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.129 | 77.2 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.126 | 75.4 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *82.0* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *82.3* | *10.0-139* | |

## L1739342-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-01 05/30/24 15:01 • (MS) R4075548-4 05/30/24 15:10 • (MSD) R4075548-5 05/30/24 15:20

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.187 | U | 0.141 | 0.156 | 75.3 | 83.3 | 1 | 10.0-160 | | | 10.1 | 37 |
| PCB 1260 | 0.187 | U | 0.151 | 0.151 | 80.9 | 80.9 | 1 | 10.0-160 | | | 0.000 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *74.3* | *79.5* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *78.7* | *82.4* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4075553-2 05/30/24 17:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4075553-2 05/30/24 17:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *67.4* | | | *12.0-120* |
| *(S) Phenol-d5* | *59.6* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *49.5* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *54.7* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *39.6* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *64.6* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4075553-1 05/30/24 16:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.351 | 52.7 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.386 | 58.0 | 40.0-120 | |
| Anthracene | 0.666 | 0.415 | 62.3 | 42.0-120 | |
| Benzidine | 1.33 | 0.470 | 35.3 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.427 | 64.1 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.408 | 61.3 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.422 | 63.4 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.405 | 60.8 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.426 | 64.0 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.351 | 52.7 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.417 | 62.6 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4075553-1 05/30/24 16:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.383 | 57.5 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.388 | 58.3 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.375 | 56.3 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.371 | 55.7 | 40.0-120 | |
| Chrysene | 0.666 | 0.435 | 65.3 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.392 | 58.9 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.388 | 58.3 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.372 | 55.9 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.378 | 56.8 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.727 | 54.7 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.443 | 66.5 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.451 | 67.7 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.395 | 59.3 | 44.0-120 | |
| Fluorene | 0.666 | 0.378 | 56.8 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.341 | 51.2 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.294 | 44.1 | 15.0-120 | J |
| Hexachlorocyclopentadiene | 0.666 | 0.331 | 49.7 | 15.0-120 | J |
| Hexachloroethane | 0.666 | 0.379 | 56.9 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.380 | 57.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.348 | 52.3 | 23.0-120 | |
| Naphthalene | 0.666 | 0.329 | 49.4 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.329 | 49.4 | 17.0-120 | J |
| n-Nitrosodimethylamine | 0.666 | 0.322 | 48.3 | 10.0-125 | J |
| n-Nitrosodiphenylamine | 0.666 | 0.395 | 59.3 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.417 | 62.6 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.407 | 61.1 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.472 | 70.9 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.476 | 71.5 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.423 | 63.5 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.407 | 61.1 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.405 | 60.8 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.470 | 70.6 | 40.0-120 | |
| Pyrene | 0.666 | 0.425 | 63.8 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.322 | 48.3 | 17.0-120 | J |
| 4-Chloro-3-methylphenol | 0.666 | 0.351 | 52.7 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.422 | 63.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.323 | 48.5 | 25.0-120 | J |
| 2,4-Dimethylphenol | 0.666 | 0.401 | 60.2 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.540 | 81.1 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.398 | 59.8 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4075553-1 05/30/24 16:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.399 | 59.9 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.551 | 82.7 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.401 | 60.2 | 29.0-120 | |
| Phenol | 0.666 | 0.413 | 62.0 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.378 | 56.8 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *66.8* | *12.0-120* | |
| *(S) Phenol-d5* | | | *60.1* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *43.5* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *54.7* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *45.9* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *61.3* | *10.0-120* | |

## L1739342-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-01 05/30/24 20:52 • (MS) R4075553-3 05/30/24 21:13 • (MSD) R4075553-4 05/30/24 21:33

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.756 | U | 0.356 | 0.355 | 47.1 | 47.2 | 1 | 18.0-120 | | | 0.324 | 32 |
| Acenaphthylene | 0.756 | U | 0.380 | 0.385 | 50.3 | 51.2 | 1 | 25.0-120 | | | 1.20 | 32 |
| Anthracene | 0.756 | U | 0.430 | 0.433 | 56.9 | 57.7 | 1 | 22.0-120 | | | 0.801 | 29 |
| Benzidine | 1.51 | U | 0.0970 | 0.0967 | 6.43 | 6.45 | 1 | 10.0-120 | J J6 | J J6 | 0.357 | 40 |
| Benzo(a)anthracene | 0.756 | U | 0.420 | 0.431 | 55.5 | 57.4 | 1 | 25.0-120 | | | 2.71 | 29 |
| Benzo(b)fluoranthene | 0.756 | 0.00722 | 0.387 | 0.409 | 50.3 | 53.5 | 1 | 19.0-122 | | | 5.50 | 31 |
| Benzo(k)fluoranthene | 0.756 | U | 0.385 | 0.402 | 50.9 | 53.5 | 1 | 23.0-120 | | | 4.39 | 30 |
| Benzo(g,h,i)perylene | 0.756 | U | 0.365 | 0.333 | 48.3 | 44.3 | 1 | 10.0-120 | | | 9.24 | 33 |
| Benzo(a)pyrene | 0.756 | U | 0.394 | 0.408 | 52.1 | 54.3 | 1 | 24.0-120 | | | 3.45 | 30 |
| Bis(2-chlorethoxy)methane | 0.756 | U | 0.300 | 0.285 | 39.6 | 37.9 | 1 | 10.0-120 | J | J | 5.13 | 34 |
| Bis(2-chloroethyl)ether | 0.756 | U | 0.701 | 0.589 | 92.7 | 78.4 | 1 | 10.0-120 | | | 17.3 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.756 | U | 0.326 | 0.303 | 43.1 | 40.3 | 1 | 10.0-120 | J | J | 7.33 | 40 |
| 4-Bromophenyl-phenylether | 0.756 | U | 0.408 | 0.402 | 54.0 | 53.5 | 1 | 27.0-120 | | | 1.42 | 30 |
| 2-Chloronaphthalene | 0.756 | U | 0.363 | 0.368 | 48.0 | 48.9 | 1 | 20.0-120 | | | 1.26 | 32 |
| 4-Chlorophenyl-phenylether | 0.756 | U | 0.392 | 0.386 | 51.8 | 51.4 | 1 | 24.0-120 | | | 1.48 | 29 |
| Chrysene | 0.756 | U | 0.428 | 0.437 | 56.6 | 58.1 | 1 | 21.0-120 | | | 2.13 | 29 |
| Dibenz(a,h)anthracene | 0.756 | U | 0.384 | 0.375 | 50.8 | 49.8 | 1 | 10.0-120 | | | 2.43 | 32 |
| 1,2-Dichlorobenzene | 0.756 | U | 0.311 | 0.279 | 41.2 | 37.1 | 1 | 10.0-120 | J | J | 10.9 | 38 |
| 1,3-Dichlorobenzene | 0.756 | U | 0.302 | 0.262 | 39.9 | 34.8 | 1 | 10.0-120 | J | J | 14.3 | 40 |
| 1,4-Dichlorobenzene | 0.756 | U | 0.300 | 0.264 | 39.6 | 35.1 | 1 | 10.0-120 | J | J | 12.7 | 39 |
| 3,3-Dichlorobenzidine | 1.51 | U | 0.552 | 0.538 | 36.6 | 35.9 | 1 | 10.0-120 | | | 2.54 | 34 |
| 2,4-Dinitrotoluene | 0.756 | U | 0.455 | 0.439 | 60.2 | 58.4 | 1 | 30.0-120 | | | 3.61 | 31 |

## L1739342-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-01 05/30/24 20:52 • (MS) R4075553-3 05/30/24 21:13 • (MSD) R4075553-4 05/30/24 21:33

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.756 | U | 0.455 | 0.414 | 60.2 | 55.1 | 1 | 25.0-120 | | | 9.55 | 31 |
| Fluoranthene | 0.756 | U | 0.410 | 0.428 | 54.3 | 56.9 | 1 | 18.0-126 | | | 4.13 | 32 |
| Fluorene | 0.756 | U | 0.400 | 0.391 | 52.9 | 52.0 | 1 | 25.0-120 | | | 2.33 | 30 |
| Hexachlorobenzene | 0.756 | U | 0.343 | 0.325 | 45.4 | 43.3 | 1 | 27.0-120 | J | J | 5.52 | 28 |
| Hexachloro-1,3-butadiene | 0.756 | U | 0.256 | 0.237 | 33.8 | 31.6 | 1 | 10.0-120 | J | J | 7.48 | 38 |
| Hexachlorocyclopentadiene | 0.756 | U | 0.0572 | 0.0784 | 7.56 | 10.4 | 1 | 10.0-120 | J J6 | J | 31.3 | 40 |
| Hexachloroethane | 0.756 | U | 0.259 | 0.250 | 34.3 | 33.3 | 1 | 10.0-120 | J | J | 3.62 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.756 | U | 0.358 | 0.350 | 47.4 | 46.6 | 1 | 10.0-120 | | | 2.28 | 32 |
| Isophorone | 0.756 | U | 0.297 | 0.281 | 39.3 | 37.4 | 1 | 13.0-120 | J | J | 5.58 | 34 |
| Naphthalene | 0.756 | U | 0.286 | 0.275 | 37.8 | 36.7 | 1 | 10.0-120 | | | 3.70 | 35 |
| Nitrobenzene | 0.756 | U | 0.286 | 0.270 | 37.8 | 35.9 | 1 | 10.0-120 | J | J | 5.81 | 36 |
| n-Nitrosodimethylamine | 0.756 | U | 0.255 | 0.212 | 33.7 | 28.2 | 1 | 10.0-127 | J | J | 18.3 | 40 |
| n-Nitrosodiphenylamine | 0.756 | U | 0.398 | 0.423 | 52.6 | 56.3 | 1 | 17.0-120 | | | 6.18 | 29 |
| n-Nitrosodi-n-propylamine | 0.756 | U | 0.358 | 0.333 | 47.4 | 44.3 | 1 | 10.0-120 | J | J | 7.33 | 37 |
| Phenanthrene | 0.756 | U | 0.424 | 0.436 | 56.1 | 58.0 | 1 | 17.0-120 | | | 2.68 | 31 |
| Benzylbutyl phthalate | 0.756 | U | 0.494 | 0.508 | 65.4 | 67.6 | 1 | 23.0-120 | | | 2.76 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.756 | U | 0.488 | 0.473 | 64.5 | 62.9 | 1 | 17.0-126 | | | 3.12 | 30 |
| Di-n-butyl phthalate | 0.756 | U | 0.430 | 0.454 | 56.9 | 60.4 | 1 | 30.0-120 | | | 5.48 | 29 |
| Diethyl phthalate | 0.756 | U | 0.429 | 0.443 | 56.7 | 58.9 | 1 | 26.0-120 | | | 3.17 | 28 |
| Dimethyl phthalate | 0.756 | U | 0.394 | 0.350 | 52.1 | 46.6 | 1 | 25.0-120 | | J | 11.8 | 29 |
| Di-n-octyl phthalate | 0.756 | U | 0.496 | 0.486 | 65.5 | 64.7 | 1 | 21.0-123 | | | 1.88 | 29 |
| Pyrene | 0.756 | 0.00816 | 0.430 | 0.441 | 55.8 | 57.7 | 1 | 16.0-121 | | | 2.65 | 32 |
| 1,2,4-Trichlorobenzene | 0.756 | U | 0.280 | 0.273 | 37.0 | 36.3 | 1 | 12.0-120 | J | J | 2.50 | 37 |
| 4-Chloro-3-methylphenol | 0.756 | U | 0.348 | 0.179 | 46.0 | 23.8 | 1 | 15.0-120 | J | J J3 | 64.3 | 30 |
| 2-Chlorophenol | 0.756 | U | 0.360 | 0.337 | 47.6 | 44.8 | 1 | 15.0-120 | J | J | 6.62 | 37 |
| 2,4-Dichlorophenol | 0.756 | U | 0.280 | 0.273 | 37.0 | 36.3 | 1 | 20.0-120 | J | J | 2.50 | 31 |
| 2,4-Dimethylphenol | 0.756 | U | 0.243 | 0.198 | 32.2 | 26.4 | 1 | 10.0-120 | J | J | 20.4 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.756 | U | 0.318 | 0.257 | 42.1 | 34.2 | 1 | 10.0-120 | J | J | 21.2 | 39 |
| 2,4-Dinitrophenol | 0.756 | U | 0.297 | 0.192 | 39.3 | 25.6 | 1 | 10.0-121 | J | J J3 | 42.8 | 40 |
| 2-Nitrophenol | 0.756 | U | 0.349 | 0.345 | 46.2 | 45.9 | 1 | 12.0-120 | J | J | 1.33 | 39 |
| 4-Nitrophenol | 0.756 | U | 0.619 | 0.612 | 81.9 | 81.4 | 1 | 10.0-137 | | | 1.12 | 32 |
| Pentachlorophenol | 0.756 | U | 0.420 | 0.452 | 55.5 | 60.1 | 1 | 10.0-160 | | | 7.41 | 31 |
| Phenol | 0.756 | U | 0.0522 | U | 6.91 | 0.000 | 1 | 12.0-120 | J J6 | J3 J6 | 200 | 38 |
| 2,4,6-Trichlorophenol | 0.756 | U | 0.370 | 0.386 | 48.9 | 51.4 | 1 | 19.0-120 | J | | 4.27 | 32 |
| *(S) 2-Fluorophenol* | | | | | *48.6* | *45.9* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *5.98* | *0.802* | | *10.0-120* | J2 | J2 | | |
| *(S) Nitrobenzene-d5* | | | | | *34.5* | *33.1* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *45.1* | *48.2* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *44.7* | *44.9* | | *10.0-127* | | | | |

## L1739342-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-01 05/30/24 20:52 • (MS) R4075553-3 05/30/24 21:13 • (MSD) R4075553-4 05/30/24 21:33

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *56.1* | *54.3* | | *10.0-120* | | | | |

## Method Blank (MB)

(MB) R4075976-2 05/31/24 19:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4075976-2 05/31/24 19:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *78.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *73.4* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *59.5* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *71.8* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *67.0* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *80.8* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4075976-1 05/31/24 18:41

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.461 | 69.2 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.515 | 77.3 | 40.0-120 | |
| Anthracene | 0.666 | 0.524 | 78.7 | 42.0-120 | |
| Benzidine | 1.33 | 0.404 | 30.4 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.549 | 82.4 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.490 | 73.6 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.483 | 72.5 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.561 | 84.2 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.521 | 78.2 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.350 | 52.6 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.366 | 55.0 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4075976-1 05/31/24 18:41

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.421 | 63.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.548 | 82.3 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.441 | 66.2 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.510 | 76.6 | 40.0-120 | |
| Chrysene | 0.666 | 0.506 | 76.0 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.601 | 90.2 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.425 | 63.8 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.426 | 64.0 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.456 | 68.5 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.01 | 75.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.539 | 80.9 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.538 | 80.8 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.534 | 80.2 | 44.0-120 | |
| Fluorene | 0.666 | 0.480 | 72.1 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.505 | 75.8 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.362 | 54.4 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.411 | 61.7 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.413 | 62.0 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.636 | 95.5 | 45.0-120 | |
| Isophorone | 0.666 | 0.357 | 53.6 | 23.0-120 | |
| Naphthalene | 0.666 | 0.371 | 55.7 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.329 | 49.4 | 17.0-120 | J |
| n-Nitrosodimethylamine | 0.666 | 0.309 | 46.4 | 10.0-125 | J |
| n-Nitrosodiphenylamine | 0.666 | 0.479 | 71.9 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.418 | 62.8 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.493 | 74.0 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.540 | 81.1 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.553 | 83.0 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.496 | 74.5 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.521 | 78.2 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.500 | 75.1 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.558 | 83.8 | 40.0-120 | |
| Pyrene | 0.666 | 0.516 | 77.5 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.381 | 57.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.410 | 61.6 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.479 | 71.9 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.413 | 62.0 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.359 | 53.9 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.696 | 105 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.576 | 86.5 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4075976-1 05/31/24 18:41

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.446 | 67.0 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.543 | 81.5 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.376 | 56.5 | 29.0-120 | |
| Phenol | 0.666 | 0.452 | 67.9 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.491 | 73.7 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *75.2* | *12.0-120* | |
| *(S) Phenol-d5* | | | *71.6* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *47.1* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *68.2* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *74.3* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *77.8* | *10.0-120* | |

## Method Blank (MB)

(MB) R4079327-2 06/06/24 22:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4079327-2 06/06/24 22:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *58.0* | | | *12.0-120* |
| *(S) Phenol-d5* | *54.1* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *43.5* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *52.3* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *48.0* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *55.6* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4079327-1 06/06/24 22:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.335 | 50.3 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.375 | 56.3 | 40.0-120 | |
| Anthracene | 0.666 | 0.373 | 56.0 | 42.0-120 | |
| Benzidine | 1.33 | 0.226 | 17.0 | 10.0-120 | J |
| Benzo(a)anthracene | 0.666 | 0.387 | 58.1 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.353 | 53.0 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.339 | 50.9 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.391 | 58.7 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.373 | 56.0 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.271 | 40.7 | 20.0-120 | J |
| Bis(2-chloroethyl)ether | 0.666 | 0.332 | 49.8 | 16.0-120 | J |

## Laboratory Control Sample (LCS)

(LCS) R4079327-1 06/06/24 22:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.313 | 47.0 | 23.0-120 | J |
| 4-Bromophenyl-phenylether | 0.666 | 0.379 | 56.9 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.330 | 49.5 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.370 | 55.6 | 40.0-120 | |
| Chrysene | 0.666 | 0.359 | 53.9 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.412 | 61.9 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.313 | 47.0 | 32.0-120 | J |
| 1,3-Dichlorobenzene | 0.666 | 0.313 | 47.0 | 30.0-120 | J |
| 1,4-Dichlorobenzene | 0.666 | 0.340 | 51.1 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.648 | 48.7 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.392 | 58.9 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.398 | 59.8 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.375 | 56.3 | 44.0-120 | |
| Fluorene | 0.666 | 0.351 | 52.7 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.339 | 50.9 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.282 | 42.3 | 15.0-120 | J |
| Hexachlorocyclopentadiene | 0.666 | 0.238 | 35.7 | 15.0-120 | J |
| Hexachloroethane | 0.666 | 0.315 | 47.3 | 17.0-120 | J |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.448 | 67.3 | 45.0-120 | |
| Isophorone | 0.666 | 0.281 | 42.2 | 23.0-120 | J |
| Naphthalene | 0.666 | 0.279 | 41.9 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.259 | 38.9 | 17.0-120 | J |
| n-Nitrosodimethylamine | 0.666 | 0.260 | 39.0 | 10.0-125 | J |
| n-Nitrosodiphenylamine | 0.666 | 0.335 | 50.3 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.308 | 46.2 | 26.0-120 | J |
| Phenanthrene | 0.666 | 0.352 | 52.9 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.393 | 59.0 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.399 | 59.9 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.362 | 54.4 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.401 | 60.2 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.368 | 55.3 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.409 | 61.4 | 40.0-120 | |
| Pyrene | 0.666 | 0.368 | 55.3 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.295 | 44.3 | 17.0-120 | J |
| 4-Chloro-3-methylphenol | 0.666 | 0.310 | 46.5 | 28.0-120 | J |
| 2-Chlorophenol | 0.666 | 0.349 | 52.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.306 | 45.9 | 25.0-120 | J |
| 2,4-Dimethylphenol | 0.666 | 0.282 | 42.3 | 15.0-120 | J |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.445 | 66.8 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.336 | 50.5 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4079327-1 06/06/24 22:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.338 | 50.8 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.392 | 58.9 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.275 | 41.3 | 29.0-120 | J |
| Phenol | 0.666 | 0.338 | 50.8 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.356 | 53.5 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *56.8* | *12.0-120* | |
| *(S) Phenol-d5* | | | *52.9* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *36.0* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *50.2* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *49.2* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *54.1* | *10.0-120* | |

## L1742067-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742067-01 06/07/24 00:05 • (MS) R4079327-3 06/07/24 00:30 • (MSD) R4079327-4 06/07/24 00:54

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.755 | U | 0.324 | 0.299 | 42.9 | 39.5 | 1 | 18.0-120 | | | 8.06 | 32 |
| Acenaphthylene | 0.755 | U | 0.357 | 0.334 | 47.3 | 44.1 | 1 | 25.0-120 | | | 6.60 | 32 |
| Anthracene | 0.755 | U | 0.426 | 0.388 | 56.3 | 51.2 | 1 | 22.0-120 | | | 9.26 | 29 |
| Benzidine | 1.51 | U | 0.123 | 0.120 | 8.18 | 7.89 | 1 | 10.0-120 | J J6 | J J6 | 2.82 | 40 |
| Benzo(a)anthracene | 0.755 | U | 0.483 | 0.437 | 63.9 | 57.7 | 1 | 25.0-120 | | | 9.93 | 29 |
| Benzo(b)fluoranthene | 0.755 | U | 0.438 | 0.388 | 58.0 | 51.2 | 1 | 19.0-122 | | | 12.2 | 31 |
| Benzo(k)fluoranthene | 0.755 | U | 0.428 | 0.372 | 56.6 | 49.1 | 1 | 23.0-120 | | | 14.0 | 30 |
| Benzo(g,h,i)perylene | 0.755 | U | 0.493 | 0.434 | 65.3 | 57.2 | 1 | 10.0-120 | | | 12.8 | 33 |
| Benzo(a)pyrene | 0.755 | U | 0.463 | 0.411 | 61.3 | 54.2 | 1 | 24.0-120 | | | 12.0 | 30 |
| Bis(2-chlorethoxy)methane | 0.755 | U | 0.258 | 0.246 | 34.1 | 32.5 | 1 | 10.0-120 | J | J | 4.52 | 34 |
| Bis(2-chloroethyl)ether | 0.755 | U | 0.370 | 0.306 | 48.9 | 40.4 | 1 | 10.0-120 | J | J | 18.9 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.755 | U | 0.280 | 0.261 | 37.0 | 34.5 | 1 | 10.0-120 | J | J | 6.75 | 40 |
| 4-Bromophenyl-phenylether | 0.755 | U | 0.402 | 0.364 | 53.2 | 48.0 | 1 | 27.0-120 | | J | 9.84 | 30 |
| 2-Chloronaphthalene | 0.755 | U | 0.306 | 0.283 | 40.5 | 37.3 | 1 | 20.0-120 | | | 7.75 | 32 |
| 4-Chlorophenyl-phenylether | 0.755 | U | 0.374 | 0.355 | 49.5 | 46.8 | 1 | 24.0-120 | J | J | 5.32 | 29 |
| Chrysene | 0.755 | U | 0.448 | 0.401 | 59.4 | 52.9 | 1 | 21.0-120 | | | 11.3 | 29 |
| Dibenz(a,h)anthracene | 0.755 | U | 0.519 | 0.453 | 68.7 | 59.8 | 1 | 10.0-120 | | | 13.6 | 32 |
| 1,2-Dichlorobenzene | 0.755 | U | 0.274 | 0.262 | 36.3 | 34.6 | 1 | 10.0-120 | J | J | 4.26 | 38 |
| 1,3-Dichlorobenzene | 0.755 | U | 0.267 | 0.261 | 35.3 | 34.5 | 1 | 10.0-120 | J | J | 2.16 | 40 |
| 1,4-Dichlorobenzene | 0.755 | U | 0.290 | 0.283 | 38.4 | 37.3 | 1 | 10.0-120 | J | J | 2.39 | 39 |
| 3,3-Dichlorobenzidine | 1.51 | U | 0.887 | 0.807 | 58.9 | 53.2 | 1 | 10.0-120 | | | 9.43 | 34 |
| 2,4-Dinitrotoluene | 0.755 | U | 0.438 | 0.389 | 58.0 | 51.4 | 1 | 30.0-120 | | | 11.9 | 31 |

# WG2300034

# QUALITY CONTROL SUMMARY

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

L1739342-03

## L1742067-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742067-01 06/07/24 00:05 • (MS) R4079327-3 06/07/24 00:30 • (MSD) R4079327-4 06/07/24 00:54

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.755 | U | 0.398 | 0.370 | 52.7 | 48.8 | 1 | 25.0-120 | | J | 7.43 | 31 |
| Fluoranthene | 0.755 | U | 0.461 | 0.410 | 61.0 | 54.1 | 1 | 18.0-126 | | | 11.8 | 32 |
| Fluorene | 0.755 | U | 0.355 | 0.333 | 47.0 | 44.0 | 1 | 25.0-120 | | | 6.30 | 30 |
| Hexachlorobenzene | 0.755 | U | 0.377 | 0.348 | 49.8 | 45.9 | 1 | 27.0-120 | J | J | 7.87 | 28 |
| Hexachloro-1,3-butadiene | 0.755 | U | 0.252 | 0.236 | 33.4 | 31.2 | 1 | 10.0-120 | J | J | 6.54 | 38 |
| Hexachlorocyclopentadiene | 0.755 | U | 0.177 | 0.151 | 23.4 | 19.9 | 1 | 10.0-120 | J | J | 16.0 | 40 |
| Hexachloroethane | 0.755 | U | 0.261 | 0.246 | 34.6 | 32.5 | 1 | 10.0-120 | J | J | 5.84 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.755 | U | 0.556 | 0.490 | 73.6 | 64.6 | 1 | 10.0-120 | | | 12.7 | 32 |
| Isophorone | 0.755 | U | 0.275 | 0.253 | 36.4 | 33.4 | 1 | 13.0-120 | J | J | 8.21 | 34 |
| Naphthalene | 0.755 | U | 0.259 | 0.246 | 34.3 | 32.5 | 1 | 10.0-120 | | | 4.97 | 35 |
| Nitrobenzene | 0.755 | U | 0.240 | 0.231 | 31.7 | 30.4 | 1 | 10.0-120 | J | J | 3.88 | 36 |
| n-Nitrosodimethylamine | 0.755 | U | 0.261 | 0.250 | 34.6 | 33.0 | 1 | 10.0-127 | J | J | 4.46 | 40 |
| n-Nitrosodiphenylamine | 0.755 | U | 0.371 | 0.347 | 49.1 | 45.8 | 1 | 17.0-120 | J | J | 6.68 | 29 |
| n-Nitrosodi-n-propylamine | 0.755 | U | 0.290 | 0.270 | 38.4 | 35.7 | 1 | 10.0-120 | J | J | 6.92 | 37 |
| Phenanthrene | 0.755 | U | 0.399 | 0.369 | 52.9 | 48.6 | 1 | 17.0-120 | | | 8.02 | 31 |
| Benzylbutyl phthalate | 0.755 | U | 0.512 | 0.455 | 67.8 | 60.1 | 1 | 23.0-120 | | | 11.8 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.755 | U | 0.508 | 0.456 | 67.2 | 60.2 | 1 | 17.0-126 | | | 10.7 | 30 |
| Di-n-butyl phthalate | 0.755 | U | 0.453 | 0.401 | 60.0 | 52.9 | 1 | 30.0-120 | | | 12.3 | 29 |
| Diethyl phthalate | 0.755 | U | 0.450 | 0.418 | 59.5 | 55.1 | 1 | 26.0-120 | | | 7.37 | 28 |
| Dimethyl phthalate | 0.755 | U | 0.382 | 0.366 | 50.6 | 48.3 | 1 | 25.0-120 | | J | 4.27 | 29 |
| Di-n-octyl phthalate | 0.755 | U | 0.524 | 0.470 | 69.3 | 62.0 | 1 | 21.0-123 | | | 10.8 | 29 |
| Pyrene | 0.755 | U | 0.455 | 0.410 | 60.3 | 54.1 | 1 | 16.0-121 | | | 10.6 | 32 |
| 1,2,4-Trichlorobenzene | 0.755 | U | 0.268 | 0.260 | 35.5 | 34.3 | 1 | 12.0-120 | J | J | 3.02 | 37 |
| 4-Chloro-3-methylphenol | 0.755 | U | 0.313 | 0.292 | 41.4 | 38.6 | 1 | 15.0-120 | J | J | 6.79 | 30 |
| 2-Chlorophenol | 0.755 | U | 0.332 | 0.302 | 44.0 | 39.9 | 1 | 15.0-120 | J | J | 9.35 | 37 |
| 2,4-Dichlorophenol | 0.755 | U | 0.302 | 0.282 | 40.0 | 37.2 | 1 | 20.0-120 | J | J | 7.03 | 31 |
| 2,4-Dimethylphenol | 0.755 | U | 0.264 | 0.249 | 34.9 | 32.8 | 1 | 10.0-120 | J | J | 5.79 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.755 | U | 0.522 | 0.455 | 69.0 | 60.1 | 1 | 10.0-120 | | | 13.6 | 39 |
| 2,4-Dinitrophenol | 0.755 | U | 0.452 | 0.381 | 59.8 | 50.3 | 1 | 10.0-121 | | | 17.0 | 40 |
| 2-Nitrophenol | 0.755 | U | 0.302 | 0.290 | 40.0 | 38.3 | 1 | 12.0-120 | J | J | 4.24 | 39 |
| 4-Nitrophenol | 0.755 | U | 0.512 | 0.440 | 67.8 | 58.1 | 1 | 10.0-137 | | | 15.1 | 32 |
| Pentachlorophenol | 0.755 | U | 0.401 | 0.356 | 53.0 | 47.0 | 1 | 10.0-160 | | J | 11.8 | 31 |
| Phenol | 0.755 | U | 0.178 | 0.202 | 23.6 | 26.7 | 1 | 12.0-120 | J | J | 12.6 | 38 |
| 2,4,6-Trichlorophenol | 0.755 | U | 0.350 | 0.333 | 46.4 | 44.0 | 1 | 19.0-120 | J | J | 5.01 | 32 |
| *(S) 2-Fluorophenol* | | | | | *48.0* | *44.0* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *23.0* | *26.7* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *30.2* | *27.8* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *41.1* | *38.9* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *52.7* | *47.0* | | *10.0-127* | | | | |

## L1742067-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742067-01 06/07/24 00:05 • (MS) R4079327-3 06/07/24 00:30 • (MSD) R4079327-4 06/07/24 00:54

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *59.2* | *54.2* | | *10.0-120* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J2 | Surrogate recovery limits have been exceeded; values are outside lower control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| T8 | Sample(s) received past/too close to holding time expiration. |

# GLOSSARY OF TERMS

| Qualifier | Description |
|---|---|
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project #
1793.00305000

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo & A. Vonk

Site/Facility ID #
AB&I

P.O. #
—

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote # —

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres (PCBs) | V8270 4ozClr-NoPres (SVOCs) | 8260 40mlAmb/MeOH10ml/Syr (VOCs) | HOLD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/WC-B1-1-1.0 | Grab | SS | 1 | 05/21/24 | 0815 | 2 | ~~X~~ | | X | X | X | | X | | | | -01 |
| G/WC-B1-1-2.0 | \| | SS | 2 | \| | 0825 | 3 | | | X | | X | X | X | | | | -02 |
| G/WC-B1-1-3.0 | \| | SS | 3 | \| | 0835 | 3 | X | X | X | | | X | X | | | | -03 |
| G/WC-B1-1-4.0 | \| | SS | 4 | \| | 0845 | 2 | | | | | | | X | | | | -04 |
| G/WC-B1-1-5.0 | \| | SS | 5 | \| | 0855 | 3 | X | X | | | X | | X | | | | -05 |
| G/WC-B1-1-8.0 | \| | SS | 8 | \| | 0905 | 3 | | | | | | | X | | | | -06 |
| G/WC-B1-1-10.0 | \| | SS | 10 | \| | 0915 | 3 | | | | (DA) | X | | X | | | | -07 |
| G-B2-1-1.0 | \| | SS | 1 | \| | 0945 | 2 | | (D) | X | X | X | | X | | | | -08 |
| G-B2-1-2.0 | \| | SS | 2 | \| | 0955 | 3 | ~~X~~ | ~~X~~ | X | X | X | X | X | | | | -09 |
| G-B2-1-3.0 | ↓ | SS | 3 | ↓ | 1005 | 3 | X | X | X | | X | X. | X | | | | -10 |

Chain of Custody Page 1 of 5

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1739342

Table H092

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:
Shipped Via: **FedEX Ground**

| Remarks | Sample # (lab only) |
|---|---|
| | -01 |
| | -02 |
| | -03 |
| | -04 |
| | -05 |
| | -06 |
| | -07 |
| | -08 |
| | -09 |
| | -10 |

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

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No (HCL / MeoH TBR) | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/21/24 | 1520 | PONO | | |
| | 5.21.24 | 1630 | SWA GAP60 | Temp: 0.8 +0.1=0.9 °C Bottles Received: 42 | |
| | | | Received for lab by: (Signature) | Date: 5/22/24 Time: 1200 | Hold: Condition: NCF / OK |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland CA.

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project #
1793.003.05.000

Lab Project #
**ROUXOCA-CA**

Collected by (print):
T. Ayuyao & A. Vonk

Site/Facility ID #
AB81

P.O. #
—

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #
—

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH 10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres (PCBs) | V8270 4ozClr-NoPres (SVOCs) | 8260 40mlAmb/MeOH 10ml/Syr (VOCs) | HOLD | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-B2-1-4.0 | Grab | SS | 4 | 05/21/24 | 1015 | 3 | | | | | | | X | | | | -11 |
| G-B2-1-5.0 | | SS | 5 | | 1025 | 3 | X | | | | X | | X | | | | -12 |
| G-B3-1-1.0 | | SS | 1 | | 1432 | 4 | ~~X~~ | X | X | X | X | | X | | | | -13 |
| G-B3-1-2.0 | | SS | 2 | | 1438 | 4 | | | X | X | X | X | X | | | | -14 |
| G-B3-1-3.0 | | SS | 3 | | 1440 | 4 | X | X | X | | X | X | X | | | | -15 |
| G-B3-1-4.0 | | SS | 4 | | 1448 | 3 | | | | | | | X | | | | -16 |
| G-B3-1-5.0 | | SS | 5 | | 1450 | 4 | X | X | | | | X | X | | | | -17 |
| GW-5-14.5 | ↓ | SS | 14.5 | ↓ | 1330 | 2 | X | X | | | | X | | | | | -18 |
| ~~[illegible]~~ | | ~~SS~~ | | | | | ~~X~~ | ~~X~~ | ~~X~~ | | | ~~X~~ | ~~X~~ | | | | |
| TB-01-052124 | Grab | SS | — | 05/21/24 | 1200 | 1 | X | X | X | | | X | | | | | -19 |

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 05/21/24 | 1520 | POND |
| | 5.21.24 | 1630 | SWA CARGO |
| | | | Received for lab by: (Signature) Corton Orgn |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

Date: 5/22/24 Time: 1200

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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

Chain of Custody Page 2 of 5

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1393412

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland CA

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project # 1793.00305000

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Carlson & D. Bailey

Site/Facility ID # AB&I

P.O. # —

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote # —

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 3 of 5

Pace
PEOPLE ADVANCING SCIENCE

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SDG # L1739742

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | 4ozCLEARCOACER 4ozClr-NoPres | ROCA 40mlAmb/MeOH 10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH 10ml/Syr | HOLD | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-CI-1-1.0 | Grab | SS | 1 | 5/21/24 | 830 | 3-4 | | | X | X | X | | X | | -23 |
| BS-CI-1-2.0 | | SS | 2 | | 835 | 3 | | | X | | X | X | X | | -24 |
| BS-CI-1-3.0 | | SS | 3 | | 841 | 3 | X | X | X | | X | X | X | | -22 |
| BS-CI-1-4.0 | | SS | 4 | | 852 | 3 | | | | | | | X | | -29 |
| BS-CI-1-5.0 | | SS | 5 | | 858 | 3 | X | X | | | | X | X | | -24 |
| G/UC-CI-1-1.0 | | SS | 1 | | 935 | 2 | | | X | X | X | | X | | -25 |
| G/UC-CI-1-2.0 | | SS | 2 | | 950 | 4 | | | X | | X | X | X | | -26 |
| G/UC-CI-1-3.0 | | SS | 3 | | 951 | 4 | X | X | X | | X | DS | X | | -27 |
| G/UC-CI-1-4.0 | | SS | 4 | | 1007 | 4 DS | X | DS X | | | | DS X | X | | -28 |
| G/UC-CI-1-5.0 | ↓ | SS | 5 | ↓ | 1008 | ↓ 4 | X | X | | | | X | X | | -27 |

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

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

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| | 5/21/24 | 1520 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| | 5-21-24 | 16:30 | SWA CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: |
| | | | Easton Organ | 5/22/24 | 1201 |

Hold: | Condition: NCF / OK

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland CA.

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project # ABGI

Site/Facility ID # 1793.0030

Lab Project # **ROUXOCA-CA**

P.O. # 000 —

Collected by (print): T. Carlson & D. Bailey

Collected by (signature):

Immediately Packed on Ice N___ Y ✓

Quote # —

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

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | HOLD | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/UC-C1-1-8.0 | Grab | SS | 8.0 | 05/21/24 | 1025 | 8-4 | | | | | | | X | | | | | -30 |
| G/UC-C1-1-10.0 | | SS | 10.0 | | 1027 | 4 | | | | | | X | X | | | | | -31 |
| G-C2-1-1.0 | | SS | 1.0 | | 1118 | 9 | X JC | X JC | X | X | X | | X | | | | | -32 |
| G-C2-1-2.0 | | SS | 2.0 | | 1130 | 9 | | | X | | X | X | X | | | | | -33 |
| G-C2-1-3.0 | | SS | 3.0 | | 1145 | 9 | X | X | X | | X | X | X | | | | | -34 |
| G-C2-1-4.0 | | SS | 4.0 | | 1155 | 9 | | | | | | | X | | | | | -35 |
| G-C2-1-5.0 | | SS | 5.0 | | 1205 | 4 | X | X | | | | X | X | | | | | -36 |
| G-C3-1-1.0 | | SS | 1.0 | | 1310 | 3 | | | X | X | X | | X | | | | | -37 |
| G-C3-1-2.0 | | SS | 2.0 | | 1317 | 4 | | | X | | X | X | X | | | | | -38 |
| G-C3-1-3.0 | ↓ | SS | 3.0 | ↓ | 1321 | 4 | X | X | X | | X | X | X | | | | | -39 |

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| ATV | 05/21/24 | 1520 | PONO | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5.21.24 | 16:30 | SWFT CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: NCF / OK |
| | | | Eastern Origin | 5/22/24 | 0900/1200 | | |

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SDG # L1733742

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to:
**Josh Osborne**

Email To:
josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland CA

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project #
1793.00305000

Lab Project #
**ROUXOCA-CA**

Collected by (print):
D. Bailey + J. Carlson

Site/Facility ID #
AB&I

P.O. #
—

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #
—

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | 6OCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | HOLD | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-C3-1-4.0 | Grab | SS | 4 | 5/21/24 | 1323 | 3-4 | | | | | | | X | | | | -40 |
| G-C3-1-5.0 | Grab | SS | 5 | 5/21/24 | 1333 | 3-4 | X | X | | | | X | | | | | -41 |
| TB-2-052124 | — | ~~SS~~ water | — | 5/21/24 | — | 2 | | | | | | X | | | | | -42 |
| EB-052124 | Grab | ~~SS~~ water | — | 5/21/24 | 1507 | 3-4 | X | X | X | | | X | | | | | -43 |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 5 of 5

Pace
PEOPLE ADVANCING SCIENCE

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SDG # L1799342

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 5/21/24 | 1520 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5.21.24 | 18:30 | SWIFT CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: NCF / OK |
| | | | Easton Oram | 5/22/24 | 1200 | | |

**05/23/24-NCF-L1739342-ROUXOCA** R2/R3/R4/RX/EX

**Time estimate:** oh **Time spent:** oh **Grouping date:** 23 May 2024

**Members**

DP Devin Piedimonte (responsible) Jennifer Gambill

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

**Comments**

*Devin Piedimonte* *23 May 2024 4:23 PM*

For -19 "TB-01-052124" It asks for Dro, Gro, Metals and V8260 but is one vial and looks to be a trip blank. Is that correct?

*Jennifer Gambill* *23 May 2024 5:51 PM*

Please analyze the TB sample for V8260 only.

*Devin Piedimonte* *23 May 2024 5:55 PM*

Thank you for your time and help. Completed!

## ROUXOCA / L1739342 / Samples off Hold

R0/R1

Per client request, please take the following samples / analyses off of hold as requested:

Lab ID Sample ID

L1739342-03 G/UC-B1-1-3.0 - SV8270
L1739342-04 G/UC-B1-1-4.0 - V8260, Extract and hold SV8270
L1739342-05 G/UC-B1-1-5.0 - V8260
L1739342-06 G/UC-B1-1-8.0 - V8260
L1739342-07 G/UC-B1-1-10.0 - V8260
L1739342-12 G-B2-1-5.0 - V8260
L1739342-16 G-B3-1-4.0 - V8260
L1739342-25 G/UC-C1-1-1.0 - GROCA, Extract and Hold DROCAER
L1739342-26 G/UC-C1-1-2.0 - GROCA, DROCAER
L1739342-28 G/UC-C1-1-4.0 - GROCA, DROCAER
L1739342-32 G-C2-1-1.0 - GROCA, Extract and Hold DROCAER
L1739342-33 G-C2-1-2.0 - GROCA, DROCAER
L1739342-35 G-C2-1-4.0 - GROCA, DROCAER
L1739342-37 G-C3-1-1.0 - GROCA, Extract and Hold DROCAER
L1739342-38 G-C3-1-2.0 - GROCA, DROCAER
L1739342-40 G-C3-1-4.0 - GROCA, DROCAER

**Time estimate:** oh **Time spent:** oh

**Members**


Jennifer Gambill

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1739664 |
| Samples Received: | 05/23/2024 |
| Project Number: | 1793.0030500 |
| Description: | |
| Site: | AB&1 |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## BS-E1-1-1.0 L1739664-01 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 14:05 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:07 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:34 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2294622 | 1 | 05/29/24 11:45 | 05/30/24 22:50 | HLA | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 10 | 05/30/24 07:05 | 05/31/24 21:58 | JRM | Mt. Juliet, TN |

## BS-E1-1-2.0 L1739664-02 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 14:20 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:10 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:03 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 14:20 | 05/31/24 10:32 | JHH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 2 | 05/30/24 07:05 | 06/01/24 00:25 | JRM | Mt. Juliet, TN |

## BS-E1-1-3.0 L1739664-03 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 14:30 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:12 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:08 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294179 | 25 | 05/22/24 14:30 | 05/28/24 12:16 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 14:30 | 05/31/24 10:51 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 1 | 05/30/24 06:53 | 05/30/24 19:04 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 1 | 05/30/24 07:05 | 05/31/24 21:09 | JRM | Mt. Juliet, TN |

## BS-E1-1-4.0 L1739664-04 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 14:35 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2299600 | 1 | 06/06/24 09:45 | 06/06/24 09:58 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2299461 | 1 | 06/05/24 21:41 | 06/07/24 16:56 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299929 | 1 | 06/07/24 00:54 | 06/11/24 19:02 | DJS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 15:11 | DSH | Mt. Juliet, TN |

## BS-E1-1-5.0 L1739664-05 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 14:43 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293518 | 1 | 05/27/24 07:29 | 05/27/24 07:35 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294179 | 25 | 05/22/24 14:43 | 05/28/24 12:36 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 14:43 | 05/31/24 11:10 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 10 | 05/30/24 06:53 | 05/31/24 10:56 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## GW-1-13.5 L1739664-06 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 14:55 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2292768 | 1 | 05/24/24 14:58 | 05/24/24 15:10 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294179 | 25 | 05/22/24 14:55 | 05/28/24 12:55 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 14:55 | 05/31/24 11:30 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 1 | 05/30/24 06:53 | 05/30/24 18:51 | JAS | Mt. Juliet, TN |

## G-E1-1-1.0 L1739664-07 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 10:05 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:15 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:10 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2294622 | 1 | 05/29/24 11:45 | 05/30/24 23:01 | HLA | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 10 | 05/30/24 07:05 | 05/31/24 22:47 | JRM | Mt. Juliet, TN |

## G-E1-1-2.0 L1739664-08 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 10:14 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:22 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:11 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 10:14 | 05/31/24 11:49 | JHH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 10 | 05/30/24 07:05 | 06/02/24 10:59 | ALM | Mt. Juliet, TN |

## G-E1-1-3.0 L1739664-09 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 10:18 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:24 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:13 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294179 | 25 | 05/22/24 10:18 | 05/28/24 13:15 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 10:18 | 05/31/24 12:08 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 20 | 05/30/24 06:53 | 05/30/24 20:26 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 10 | 05/30/24 07:05 | 05/31/24 22:23 | JRM | Mt. Juliet, TN |

## G-E1-1-4.0 L1739664-10 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 10:25 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2299600 | 1 | 06/06/24 09:45 | 06/06/24 09:58 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299418 | 25.5 | 05/22/24 10:25 | 06/05/24 23:14 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 100 | 06/05/24 12:40 | 06/06/24 10:43 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 50 | 06/05/24 11:12 | 06/06/24 18:55 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-E1-1-5.0 L1739664-11 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 10:32 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294584 | 25.5 | 05/22/24 10:32 | 05/29/24 01:38 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296712 | 2.22 | 05/22/24 10:32 | 06/01/24 10:58 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 200 | 05/30/24 06:53 | 05/31/24 10:42 | JAS | Mt. Juliet, TN |

## GW-2-14 L1739664-12 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 10:55 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2292768 | 1 | 05/24/24 14:58 | 05/24/24 15:10 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294584 | 34.8 | 05/22/24 10:55 | 05/29/24 03:45 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296712 | 1 | 05/22/24 10:55 | 06/01/24 11:18 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 200 | 05/30/24 06:53 | 05/30/24 20:40 | JAS | Mt. Juliet, TN |

## TB-052224 L1739664-13 GW

Collected by: JA/AV | Collected date/time: 05/22/24 12:00 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295186 | 1 | 05/30/24 01:11 | 05/30/24 01:11 | JHH | Mt. Juliet, TN |

## EB-052224 L1739664-14 GW

Collected by: JA/AV | Collected date/time: 05/22/24 15:15 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2292614 | 1 | 05/26/24 16:06 | 05/27/24 15:18 | AKB | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2295552 | 1 | 05/31/24 01:54 | 05/31/24 16:02 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293775 | 1 | 05/27/24 02:34 | 05/27/24 02:34 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295186 | 1 | 05/30/24 01:53 | 05/30/24 01:53 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2294628 | 1 | 05/30/24 08:10 | 05/31/24 03:09 | MAA | Mt. Juliet, TN |

## G/UC-C4-1-1.0 L1739664-16 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 08:17 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:27 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:14 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/04/24 10:33 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299418 | 25.8 | 05/22/24 08:17 | 06/05/24 23:34 | ACG | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2294622 | 1 | 05/29/24 11:45 | 05/30/24 23:11 | HLA | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 1 | 05/30/24 07:05 | 05/31/24 20:19 | DSH | Mt. Juliet, TN |

## G/UC-C4-1-2.0 L1739664-17 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 08:28 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:29 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 19:16 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/04/24 10:35 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 5 | 05/31/24 15:27 | 06/02/24 11:58 | DJS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-C4-1-2.0 L1739664-17 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 08:28 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method 8015 | WG2299418 | 25 | 05/22/24 08:28 | 06/05/24 23:53 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296712 | 1.17 | 05/22/24 08:28 | 06/01/24 11:38 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 1 | 06/05/24 12:40 | 06/06/24 03:16 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 1 | 05/30/24 07:05 | 05/31/24 20:44 | JRM | Mt. Juliet, TN |

## G/UC-C4-1-3.0 L1739664-18 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 08:37 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293348 | 1 | 05/25/24 13:37 | 05/26/24 22:32 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/01/24 18:32 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2293711 | 1 | 05/31/24 15:27 | 06/04/24 10:36 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294990 | 25 | 05/22/24 08:37 | 05/29/24 19:58 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 40 | 05/30/24 06:53 | 05/31/24 11:11 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2295243 | 10 | 05/30/24 07:05 | 05/31/24 23:12 | JRM | Mt. Juliet, TN |

## G/UC-C4-1-4.0 L1739664-19 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 08:40 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2299600 | 1 | 06/06/24 09:45 | 06/06/24 09:58 | CMB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 20:07 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299418 | 25 | 05/22/24 08:40 | 06/06/24 00:12 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 100 | 06/05/24 12:40 | 06/06/24 10:29 | JAS | Mt. Juliet, TN |

## G/UC-C4-1-5.0 L1739664-20 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 08:45 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294179 | 25 | 05/22/24 08:45 | 05/28/24 13:34 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 08:45 | 05/31/24 12:45 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 1 | 05/30/24 06:53 | 05/30/24 16:47 | JAS | Mt. Juliet, TN |

## G/UC-C4-1-10.0 L1739664-22 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 08:58 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 08:58 | 05/31/24 13:04 | JHH | Mt. Juliet, TN |

## P-10-18.5 L1739664-23 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 09:45 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293519 | 1 | 05/27/24 08:28 | 05/27/24 08:34 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294179 | 25 | 05/22/24 09:45 | 05/28/24 13:53 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294587 | 1 | 05/22/24 09:45 | 05/31/24 14:20 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 1 | 05/30/24 06:53 | 05/30/24 17:01 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## GW-4-13.5 L1739664-24 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 10:58 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293520 | 1 | 05/27/24 08:36 | 05/27/24 08:50 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294179 | 25 | 05/22/24 10:58 | 05/28/24 14:13 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294590 | 1 | 05/22/24 10:58 | 05/29/24 04:17 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 1 | 05/30/24 06:53 | 05/30/24 17:15 | JAS | Mt. Juliet, TN |

## GW-3-13.0 L1739664-25 Solid

Collected by: JA/AV | Collected date/time: 05/22/24 00:00 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293520 | 1 | 05/27/24 08:36 | 05/27/24 08:50 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294179 | 25 | 05/22/24 00:00 | 05/28/24 14:32 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2294590 | 1 | 05/22/24 00:00 | 05/29/24 04:36 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2295239 | 1 | 05/30/24 06:53 | 05/30/24 17:28 | JAS | Mt. Juliet, TN |

## GW-5-1 L1739664-28 GW

Collected by: JA/AV | Collected date/time: 05/21/24 13:40 | Received date/time: 05/23/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293040 | 1 | 05/26/24 16:13 | 05/27/24 12:23 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293143 | 1 | 05/25/24 13:50 | 05/26/24 16:51 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2295517 | 1 | 05/31/24 06:31 | 05/31/24 12:12 | JTM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2295552 | 1 | 05/31/24 01:54 | 05/31/24 16:06 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296345 | 1 | 06/04/24 04:28 | 06/06/24 10:28 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2293775 | 1 | 05/27/24 04:52 | 05/27/24 04:52 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295186 | 1 | 05/30/24 02:13 | 05/30/24 02:13 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296326 | 1 | 05/31/24 16:43 | 06/02/24 09:50 | DMG | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/08/24 16:36
Level II Report - Version 2: 08/15/24 20:05

## Project Narrative

The following report has been revised to include the MDL information.

TB-052224-2 (L1739664-15) was cancelled per client request.

added GeoTracker EDD

## Sample Delivery Group (SDG) Narrative

**pH outside of method requirement.**

| Lab Sample ID | Project Sample ID | Method |
|---|---|---|
| L1739664-28 | GW-5-1 | 3511/8015 |

**Analysis was filtered in the laboratory.**

| Lab Sample ID | Project Sample ID | Method |
|---|---|---|
| R4078036-6 | | 6020 |
| R4078036-9 | | 6020 |

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-1.0 | L1739664-01 | Mercury | 0.0591 | | 0.0219 | 0.0487 | 1 | 05/26/2024 22:07 | WG2293348 |
| BS-E1-1-2.0 | L1739664-02 | Mercury | 0.0699 | | 0.0203 | 0.0452 | 1 | 05/26/2024 22:10 | WG2293348 |
| BS-E1-1-4.0 | L1739664-04 | Mercury | 0.127 | | 0.0211 | 0.0470 | 1 | 06/07/2024 16:56 | WG2299461 |
| G-E1-1-1.0 | L1739664-07 | Mercury | 0.0920 | | 0.0205 | 0.0456 | 1 | 05/26/2024 22:15 | WG2293348 |
| G-E1-1-2.0 | L1739664-08 | Mercury | 0.287 | | 0.0206 | 0.0457 | 1 | 05/26/2024 22:22 | WG2293348 |
| G-E1-1-3.0 | L1739664-09 | Mercury | 0.119 | | 0.0213 | 0.0474 | 1 | 05/26/2024 22:24 | WG2293348 |
| G/UC-C4-1-3.0 | L1739664-18 | Mercury | 0.0240 | J | 0.0213 | 0.0474 | 1 | 05/26/2024 22:32 | WG2293348 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-5-1 | L1739664-28 | Barium,Dissolved | 74.8 | | 0.736 | 5.00 | 1 | 05/31/2024 12:12 | WG2295517 |
| GW-5-1 | L1739664-28 | Cobalt,Dissolved | 4.42 | J | 0.840 | 10.0 | 1 | 05/31/2024 12:12 | WG2295517 |
| GW-5-1 | L1739664-28 | Molybdenum,Dissolved | 75.6 | | 1.16 | 5.00 | 1 | 05/31/2024 12:12 | WG2295517 |
| GW-5-1 | L1739664-28 | Vanadium,Dissolved | 5.80 | J | 4.99 | 20.0 | 1 | 05/31/2024 12:12 | WG2295517 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-1.0 | L1739664-01 | Antimony | 1.29 | J | 0.662 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Arsenic | 5.71 | | 0.630 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Barium | 113 | | 0.104 | 0.608 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Beryllium | 0.312 | | 0.0383 | 0.243 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Cadmium | 0.263 | J | 0.0573 | 0.608 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Chromium | 39.0 | | 0.162 | 1.22 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Cobalt | 19.4 | | 0.0986 | 1.22 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Copper | 24.2 | | 0.487 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Lead | 32.3 | | 0.253 | 0.608 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Molybdenum | 0.174 | J | 0.133 | 0.608 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Nickel | 117 | | 0.161 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Silver | 3.31 | | 0.154 | 1.22 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Thallium | 0.647 | J | 0.479 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Vanadium | 32.7 | | 0.615 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-1.0 | L1739664-01 | Zinc | 76.8 | | 1.01 | 6.08 | 1 | 06/04/2024 23:34 | WG2298458 |
| BS-E1-1-2.0 | L1739664-02 | Arsenic | 2.77 | | 0.585 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Barium | 63.7 | | 0.0962 | 0.564 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Beryllium | 0.193 | J | 0.0356 | 0.226 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Cadmium | 2.14 | | 0.0532 | 0.564 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Chromium | 23.3 | | 0.150 | 1.13 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Cobalt | 4.16 | | 0.0916 | 1.13 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Copper | 25.0 | | 0.452 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Lead | 490 | | 0.235 | 0.564 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Molybdenum | 1.69 | | 0.123 | 0.564 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Nickel | 22.2 | | 0.149 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Silver | 0.718 | J | 0.143 | 1.13 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Thallium | 0.946 | J | 0.445 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Vanadium | 14.1 | | 0.571 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| BS-E1-1-2.0 | L1739664-02 | Zinc | 215 | | 0.939 | 5.64 | 1 | 06/01/2024 19:03 | WG2293711 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-3.0 | L1739664-03 | Antimony | 1.61 | J | 0.738 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Arsenic | 1.99 | J | 0.703 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Barium | 52.7 | | 0.116 | 0.678 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Beryllium | 0.251 | J | 0.0427 | 0.271 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Cadmium | 6.27 | | 0.0639 | 0.678 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Chromium | 20.8 | | 0.180 | 1.36 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Cobalt | 1.47 | B | 0.110 | 1.36 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Copper | 45.6 | | 0.543 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Lead | 1470 | | 0.282 | 0.678 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Molybdenum | 3.93 | | 0.148 | 0.678 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Nickel | 12.6 | | 0.179 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Silver | 1.15 | J J | 0.172 | 1.36 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Thallium | 0.653 | J | 0.534 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Vanadium | 4.46 | | 0.686 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-3.0 | L1739664-03 | Zinc | 596 | | 1.13 | 6.78 | 1 | 06/01/2024 19:08 | WG2293711 |
| BS-E1-1-4.0 | L1739664-04 | Antimony | 8.35 | | 0.639 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Arsenic | 4.53 | | 0.608 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Barium | 85.5 | | 0.100 | 0.587 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Beryllium | 0.319 | | 0.0370 | 0.235 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Cadmium | 6.22 | | 0.0553 | 0.587 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Chromium | 46.4 | | 0.156 | 1.17 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Cobalt | 4.59 | | 0.0952 | 1.17 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Copper | 65.3 | | 0.470 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Lead | 1430 | | 0.244 | 0.587 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Molybdenum | 5.33 | | 0.128 | 0.587 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Nickel | 33.0 | | 0.155 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Selenium | 1.36 | J | 0.897 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Silver | 0.987 | J | 0.149 | 1.17 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Vanadium | 25.8 | | 0.594 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| BS-E1-1-4.0 | L1739664-04 | Zinc | 586 | | 0.977 | 5.87 | 1 | 06/11/2024 19:02 | WG2299929 |
| G-E1-1-1.0 | L1739664-07 | Arsenic | 1.95 | J | 0.591 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Barium | 62.2 | | 0.0972 | 0.571 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Beryllium | 0.0882 | J | 0.0359 | 0.228 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Cadmium | 0.171 | J | 0.0537 | 0.571 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Chromium | 9.50 | | 0.152 | 1.14 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Cobalt | 4.87 | | 0.0926 | 1.14 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Copper | 24.4 | | 0.456 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Lead | 120 | | 0.237 | 0.571 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Molybdenum | 0.127 | J | 0.124 | 0.571 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Nickel | 13.7 | | 0.151 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Silver | 0.376 | J | 0.145 | 1.14 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Thallium | 0.706 | J | 0.450 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Vanadium | 14.8 | | 0.577 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| G-E1-1-1.0 | L1739664-07 | Zinc | 53.8 | | 0.949 | 5.71 | 1 | 06/01/2024 19:10 | WG2293711 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-E1-1-2.0 | L1739664-08 | Arsenic | 13.4 | | 0.592 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Barium | 177 | | 0.0973 | 0.571 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Beryllium | 0.330 | | 0.0360 | 0.229 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Cadmium | 0.262 | J | 0.0538 | 0.571 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Chromium | 29.3 | | 0.152 | 1.14 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Cobalt | 7.73 | | 0.0927 | 1.14 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Copper | 47.3 | | 0.457 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Lead | 83.5 | | 0.238 | 0.571 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Molybdenum | 0.212 | J | 0.125 | 0.571 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Nickel | 38.1 | | 0.151 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Silver | 2.45 | | 0.145 | 1.14 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Thallium | 1.51 | J | 0.450 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Vanadium | 30.5 | | 0.578 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-2.0 | L1739664-08 | Zinc | 143 | | 0.951 | 5.71 | 1 | 06/01/2024 19:11 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Arsenic | 3.78 | | 0.614 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Barium | 183 | | 0.101 | 0.593 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Beryllium | 0.316 | | 0.0373 | 0.237 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Cadmium | 0.245 | J | 0.0558 | 0.593 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Chromium | 40.2 | | 0.158 | 1.19 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Cobalt | 12.6 | | 0.0961 | 1.19 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Copper | 59.0 | | 0.474 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Lead | 98.2 | | 0.247 | 0.593 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Molybdenum | 0.148 | J | 0.129 | 0.593 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Nickel | 73.3 | | 0.156 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Silver | 1.11 | J | 0.151 | 1.19 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Thallium | 2.05 | J | 0.467 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Vanadium | 44.7 | | 0.600 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| G-E1-1-3.0 | L1739664-09 | Zinc | 127 | | 0.986 | 5.93 | 1 | 06/01/2024 19:13 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Arsenic | 2.95 | | 0.594 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Barium | 128 | | 0.0976 | 0.573 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Beryllium | 0.598 | | 0.0361 | 0.229 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Cadmium | 0.523 | J | 0.0540 | 0.573 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Chromium | 66.3 | | 0.152 | 1.15 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Cobalt | 2.56 | | 0.0929 | 1.15 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Copper | 51.2 | | 0.458 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Lead | 124 | | 0.238 | 0.573 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Molybdenum | 5.18 | | 0.125 | 0.573 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Nickel | 23.3 | | 0.151 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Silver | 1.51 | | 0.146 | 1.15 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Vanadium | 12.6 | | 0.580 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-1.0 | L1739664-16 | Zinc | 118 | | 0.954 | 5.73 | 1 | 06/01/2024 19:14 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Arsenic | 2.67 | | 0.599 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Barium | 143 | | 0.0986 | 0.579 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Beryllium | 0.764 | | 0.0365 | 0.231 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Cadmium | 0.980 | | 0.0545 | 0.579 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Chromium | 81.7 | | 0.154 | 1.16 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Cobalt | 1.46 | | 0.0938 | 1.16 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Copper | 36.4 | | 0.463 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Lead | 269 | | 1.20 | 2.89 | 5 | 06/02/2024 11:58 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Molybdenum | 2.58 | | 0.126 | 0.579 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Nickel | 11.9 | | 0.153 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Selenium | 0.997 | J | 0.884 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Silver | 1.20 | | 0.147 | 1.16 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Vanadium | 12.5 | | 0.586 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| G/UC-C4-1-2.0 | L1739664-17 | Zinc | 183 | | 0.963 | 5.79 | 1 | 06/01/2024 19:16 | WG2293711 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-C4-1-3.0 | L1739664-18 | Arsenic | 3.17 | | 0.614 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Barium | 70.4 | O1 | 0.101 | 0.592 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Beryllium | 0.379 | | 0.0373 | 0.237 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Cadmium | 1.24 | | 0.0558 | 0.592 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Chromium | 38.2 | O1 | 0.158 | 1.18 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Cobalt | 2.78 | J6 | 0.0961 | 1.18 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Copper | 52.9 | J6 O1 | 0.474 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Lead | 1030 | J3 O1 V | 0.246 | 0.592 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Molybdenum | 3.95 | J6 | 0.129 | 0.592 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Nickel | 17.1 | J6 O1 | 0.156 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Silver | 1.18 | J | 0.150 | 1.18 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Vanadium | 12.0 | | 0.599 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-3.0 | L1739664-18 | Zinc | 326 | J5 O1 | 0.986 | 5.92 | 1 | 06/01/2024 18:32 | WG2293711 |
| G/UC-C4-1-4.0 | L1739664-19 | Lead | 5290 | | 0.236 | 0.568 | 1 | 07/01/2024 20:07 | WG2315127 |

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-5-1 | L1739664-28 | Arsenic | 2.24 | | 0.180 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Arsenic,Dissolved | 2.13 | | 0.180 | 2.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| GW-5-1 | L1739664-28 | Barium | 215 | | 0.381 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Beryllium | 0.377 | J | 0.190 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Cadmium | 0.318 | J | 0.150 | 1.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Chromium | 17.8 | | 1.24 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Copper | 30.7 | | 1.51 | 5.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Copper,Dissolved | 5.65 | | 1.51 | 5.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| GW-5-1 | L1739664-28 | Cobalt | 12.5 | | 0.0596 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Lead | 8.18 | | 0.849 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Molybdenum | 23.0 | | 0.348 | 5.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Nickel | 85.9 | | 0.816 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Nickel,Dissolved | 43.3 | | 0.816 | 2.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| GW-5-1 | L1739664-28 | Vanadium | 24.4 | | 0.664 | 5.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Zinc | 49.2 | | 3.02 | 25.0 | 1 | 05/31/2024 16:06 | WG2295552 |
| GW-5-1 | L1739664-28 | Zinc,Dissolved | 3.44 | J | 3.02 | 25.0 | 1 | 06/06/2024 10:28 | WG2296345 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052224 | L1739664-14 | TPHG C5 - C12 | 55.9 | B J | 30.4 | 100 | 1 | 05/27/2024 02:34 | WG2293775 |
| GW-5-1 | L1739664-28 | TPHG C5 - C12 | 110 | B | 30.4 | 100 | 1 | 05/27/2024 04:52 | WG2293775 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-3.0 | L1739664-03 | TPHG C5 - C12 | 5.90 | B | 1.45 | 4.36 | 25 | 05/28/2024 12:16 | WG2294179 |
| BS-E1-1-5.0 | L1739664-05 | TPHG C5 - C12 | 2.53 | B J | 1.28 | 3.86 | 25 | 05/28/2024 12:36 | WG2294179 |
| GW-1-13.5 | L1739664-06 | TPHG C5 - C12 | 2.62 | B J | 1.16 | 3.50 | 25 | 05/28/2024 12:55 | WG2294179 |
| G-E1-1-3.0 | L1739664-09 | TPHG C5 - C12 | 1.53 | B J | 1.17 | 3.53 | 25 | 05/28/2024 13:15 | WG2294179 |
| G-E1-1-4.0 | L1739664-10 | TPHG C5 - C12 | 2.17 | B J | 0.958 | 2.88 | 25.5 | 06/05/2024 23:14 | WG2299418 |
| G-E1-1-5.0 | L1739664-11 | TPHG C5 - C12 | 1.35 | B J | 0.935 | 2.81 | 25.5 | 05/29/2024 01:38 | WG2294584 |
| GW-2-14 | L1739664-12 | TPHG C5 - C12 | 3.51 | B J | 1.37 | 4.10 | 34.8 | 05/29/2024 03:45 | WG2294584 |
| G/UC-C4-1-1.0 | L1739664-16 | TPHG C5 - C12 | 4.48 | B | 1.10 | 3.32 | 25.8 | 06/05/2024 23:34 | WG2299418 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-C4-1-2.0 | L1739664-17 | TPHG C5 - C12 | 3.53 | B | 1.11 | 3.35 | 25 | 06/05/2024 23:53 | WG2299418 |
| G/UC-C4-1-3.0 | L1739664-18 | TPHG C5 - C12 | 5.55 | B | 1.15 | 3.46 | 25 | 05/29/2024 19:58 | WG2294990 |
| G/UC-C4-1-4.0 | L1739664-19 | TPHG C5 - C12 | 6.00 | B T8 | 1.07 | 3.22 | 25 | 06/06/2024 00:12 | WG2299418 |
| G/UC-C4-1-5.0 | L1739664-20 | TPHG C5 - C12 | 2.01 | B J | 1.38 | 4.15 | 25 | 05/28/2024 13:34 | WG2294179 |
| P-10-18.5 | L1739664-23 | TPHG C5 - C12 | 1.31 | B J | 1.20 | 3.61 | 25 | 05/28/2024 13:53 | WG2294179 |
| GW-4-13.5 | L1739664-24 | TPHG C5 - C12 | 1.34 | B J | 1.34 | 4.03 | 25 | 05/28/2024 14:13 | WG2294179 |

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

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| TB-052224 | L1739664-13 | Acetone | 18.3 | J | 11.3 | 50.0 | 1 | 05/30/2024 01:11 | WG2295186 |
| TB-052224 | L1739664-13 | Chloroform | 0.202 | J | 0.111 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| EB-052224 | L1739664-14 | Chloroform | 0.135 | J | 0.111 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| GW-5-1 | L1739664-28 | cis-1,2-Dichloroethene | 0.492 | J | 0.126 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| GW-5-1 | L1739664-28 | Methyl tert-butyl ether | 0.916 | J | 0.101 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| GW-5-1 | L1739664-28 | Trichloroethene | 0.301 | J | 0.190 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-2.0 | L1739664-02 | Benzene | 0.00958 | | 0.000592 | 0.00127 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | 1,2-Dichlorobenzene | 0.00171 | J | 0.000539 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | 1,4-Dichlorobenzene | 0.00256 | J | 0.000887 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | Ethylbenzene | 0.0114 | | 0.000934 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | Isopropylbenzene | 0.00392 | | 0.000539 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | p-Isopropyltoluene | 0.0231 | | 0.00323 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | Methylene Chloride | 0.0127 | J | 0.00842 | 0.0317 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | 4-Methyl-2-pentanone (MIBK) | 0.0104 | J | 0.00289 | 0.0317 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | Naphthalene | 0.0901 | | 0.00619 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | n-Propylbenzene | 0.00805 | | 0.00120 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | Tetrachloroethene | 0.00162 | J | 0.00114 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | Toluene | 0.0271 | | 0.00165 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | 1,1,1-Trichloroethane | 0.00409 | | 0.00117 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | 1,2,4-Trimethylbenzene | 0.0440 | | 0.00200 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | 1,2,3-Trimethylbenzene | 0.0341 | | 0.00200 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | 1,3,5-Trimethylbenzene | 0.0184 | | 0.00254 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-2.0 | L1739664-02 | Xylenes, Total | 0.103 | | 0.00112 | 0.00824 | 1 | 05/31/2024 10:32 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | Benzene | 0.0155 | | 0.000819 | 0.00175 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | n-Butylbenzene | 0.0103 | J | 0.00921 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | 1,2-Dichlorobenzene | 0.00122 | J | 0.000746 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | 1,4-Dichlorobenzene | 0.00246 | J | 0.00123 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | Ethylbenzene | 0.0133 | | 0.00129 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | Isopropylbenzene | 0.00482 | | 0.000746 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | p-Isopropyltoluene | 0.0261 | | 0.00447 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | Methylene Chloride | 0.0162 | J | 0.0116 | 0.0439 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | 4-Methyl-2-pentanone (MIBK) | 0.00956 | J | 0.00400 | 0.0439 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | Naphthalene | 0.0956 | | 0.00856 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | n-Propylbenzene | 0.00939 | | 0.00167 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | Tetrachloroethene | 0.00237 | J | 0.00157 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | Toluene | 0.0393 | | 0.00228 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | 1,2,4-Trimethylbenzene | 0.0479 | | 0.00277 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | 1,2,3-Trimethylbenzene | 0.0365 | | 0.00277 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-3.0 | L1739664-03 | 1,3,5-Trimethylbenzene | 0.0219 | | 0.00351 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-3.0 | L1739664-03 | Xylenes, Total | 0.117 | | 0.00154 | 0.0114 | 1 | 05/31/2024 10:51 | WG2294587 |
| BS-E1-1-5.0 | L1739664-05 | Methylene Chloride | 0.0171 | J | 0.00994 | 0.0374 | 1 | 05/31/2024 11:10 | WG2294587 |
| BS-E1-1-5.0 | L1739664-05 | Toluene | 0.00198 | J | 0.00195 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| BS-E1-1-5.0 | L1739664-05 | Xylenes, Total | 0.00539 | J | 0.00132 | 0.00973 | 1 | 05/31/2024 11:10 | WG2294587 |
| GW-1-13.5 | L1739664-06 | Methylene Chloride | 0.0116 | J | 0.00933 | 0.0351 | 1 | 05/31/2024 11:30 | WG2294587 |
| G-E1-1-2.0 | L1739664-08 | Methylene Chloride | 0.00952 | J | 0.00879 | 0.0331 | 1 | 05/31/2024 11:49 | WG2294587 |
| G-E1-1-2.0 | L1739664-08 | Xylenes, Total | 0.00263 | J | 0.00116 | 0.00860 | 1 | 05/31/2024 11:49 | WG2294587 |
| G-E1-1-3.0 | L1739664-09 | Methylene Chloride | 0.0116 | J | 0.00923 | 0.0348 | 1 | 05/31/2024 12:08 | WG2294587 |
| G-E1-1-3.0 | L1739664-09 | Naphthalene | 0.0165 | J | 0.00679 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| G-E1-1-3.0 | L1739664-09 | 1,2,4-Trimethylbenzene | 0.00478 | J | 0.00220 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| G-E1-1-3.0 | L1739664-09 | 1,2,3-Trimethylbenzene | 0.00648 | J | 0.00220 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| G-E1-1-3.0 | L1739664-09 | Xylenes, Total | 0.00442 | J | 0.00122 | 0.00904 | 1 | 05/31/2024 12:08 | WG2294587 |
| G-E1-1-5.0 | L1739664-11 | Acetone | 0.156 | | 0.0891 | 0.122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| G-E1-1-5.0 | L1739664-11 | Methylene Chloride | 0.0191 | J | 0.0162 | 0.0610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| G-E1-1-5.0 | L1739664-11 | Toluene | 0.00445 | J | 0.00318 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| G-E1-1-5.0 | L1739664-11 | Xylenes, Total | 0.00433 | J | 0.00214 | 0.0158 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| GW-2-14 | L1739664-12 | Methylene Chloride | 0.00911 | J | 0.00815 | 0.0307 | 1 | 06/01/2024 11:18 | WG2296712 |
| GW-2-14 | L1739664-12 | Toluene | 0.00222 | J | 0.00159 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| GW-2-14 | L1739664-12 | Xylenes, Total | 0.00173 | J | 0.00108 | 0.00797 | 1 | 06/01/2024 11:18 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | Benzene | 0.0276 | | 0.000705 | 0.00151 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | 1,1-Dichloroethane | 0.00128 | J | 0.000741 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | Ethylbenzene | 0.0232 | | 0.00111 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | Isopropylbenzene | 0.0373 | | 0.000642 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | p-Isopropyltoluene | 0.0254 | | 0.00385 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | Naphthalene | 0.0737 | | 0.00737 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | n-Propylbenzene | 0.00763 | | 0.00143 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | Tetrachloroethene | 0.00491 | | 0.00136 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | Toluene | 0.0816 | | 0.00196 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | 1,2,4-Trimethylbenzene | 0.0514 | J4 | 0.00239 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | 1,2,3-Trimethylbenzene | 0.0275 | | 0.00239 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | 1,3,5-Trimethylbenzene | 0.0196 | J4 | 0.00302 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-2.0 | L1739664-17 | Xylenes, Total | 0.141 | | 0.00133 | 0.00981 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| G/UC-C4-1-5.0 | L1739664-20 | Benzene | 0.00173 | | 0.000791 | 0.00169 | 1 | 05/31/2024 12:45 | WG2294587 |
| G/UC-C4-1-5.0 | L1739664-20 | 1,1-Dichloroethane | 0.00859 | | 0.000832 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| G/UC-C4-1-5.0 | L1739664-20 | cis-1,2-Dichloroethene | 0.0159 | | 0.00124 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| G/UC-C4-1-5.0 | L1739664-20 | trans-1,2-Dichloroethene | 0.00195 | J | 0.00176 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| G/UC-C4-1-5.0 | L1739664-20 | Isopropylbenzene | 0.0357 | | 0.000720 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| G/UC-C4-1-5.0 | L1739664-20 | Methylene Chloride | 0.0162 | J | 0.0112 | 0.0423 | 1 | 05/31/2024 12:45 | WG2294587 |
| G/UC-C4-1-5.0 | L1739664-20 | Trichloroethene | 0.00644 | | 0.000989 | 0.00169 | 1 | 05/31/2024 12:45 | WG2294587 |
| G/UC-C4-1-5.0 | L1739664-20 | Xylenes, Total | 0.00254 | J | 0.00149 | 0.0110 | 1 | 05/31/2024 12:45 | WG2294587 |
| G/UC-C4-1-10.0 | L1739664-22 | Trichloroethene | 0.00149 | J | 0.000890 | 0.00152 | 1 | 05/31/2024 13:04 | WG2294587 |
| P-10-18.5 | L1739664-23 | Tetrachloroethene | 0.00612 | | 0.00129 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| P-10-18.5 | L1739664-23 | Trichloroethene | 0.00307 | | 0.000841 | 0.00144 | 1 | 05/31/2024 14:20 | WG2294587 |
| GW-3-13.0 | L1739664-25 | 1,1-Dichloroethene | 0.0274 | | 0.000966 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052224 | L1739664-14 | C12-C22 Hydrocarbons | 85.2 | B J J4 | 33.0 | 100 | 1 | 05/31/2024 03:09 | WG2294628 |
| GW-5-1 | L1739664-28 | C12-C22 Hydrocarbons | 467 | | 33.0 | 100 | 1 | 06/02/2024 09:50 | WG2296326 |
| GW-5-1 | L1739664-28 | C22-C32 Hydrocarbons | 610 | | 33.0 | 100 | 1 | 06/02/2024 09:50 | WG2296326 |
| GW-5-1 | L1739664-28 | C32-C40 Hydrocarbons | 268 | | 33.0 | 100 | 1 | 06/02/2024 09:50 | WG2296326 |

# DETECTION SUMMARY

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-3.0 | L1739664-03 | C12-C22 Hydrocarbons | 11.4 | | 0.994 | 5.43 | 1 | 05/30/2024 19:04 | WG2295239 |
| BS-E1-1-3.0 | L1739664-03 | C22-C32 Hydrocarbons | 24.4 | | 1.80 | 5.43 | 1 | 05/30/2024 19:04 | WG2295239 |
| BS-E1-1-3.0 | L1739664-03 | C32-C40 Hydrocarbons | 12.6 | | 1.80 | 5.43 | 1 | 05/30/2024 19:04 | WG2295239 |
| BS-E1-1-5.0 | L1739664-05 | C22-C32 Hydrocarbons | 82.5 | | 16.6 | 49.8 | 10 | 05/31/2024 10:56 | WG2295239 |
| BS-E1-1-5.0 | L1739664-05 | C32-C40 Hydrocarbons | 99.0 | | 16.6 | 49.8 | 10 | 05/31/2024 10:56 | WG2295239 |
| GW-1-13.5 | L1739664-06 | C12-C22 Hydrocarbons | 6.68 | | 0.866 | 4.73 | 1 | 05/30/2024 18:51 | WG2295239 |
| GW-1-13.5 | L1739664-06 | C22-C32 Hydrocarbons | 25.6 | | 1.57 | 4.73 | 1 | 05/30/2024 18:51 | WG2295239 |
| GW-1-13.5 | L1739664-06 | C32-C40 Hydrocarbons | 13.7 | | 1.57 | 4.73 | 1 | 05/30/2024 18:51 | WG2295239 |
| G-E1-1-3.0 | L1739664-09 | C22-C32 Hydrocarbons | 124 | | 31.5 | 94.8 | 20 | 05/30/2024 20:26 | WG2295239 |
| G-E1-1-3.0 | L1739664-09 | C32-C40 Hydrocarbons | 172 | | 31.5 | 94.8 | 20 | 05/30/2024 20:26 | WG2295239 |
| G-E1-1-4.0 | L1739664-10 | C12-C22 Hydrocarbons | 79.3 | J | 78.2 | 426 | 100 | 06/06/2024 10:43 | WG2299427 |
| G-E1-1-4.0 | L1739664-10 | C22-C32 Hydrocarbons | 890 | | 142 | 426 | 100 | 06/06/2024 10:43 | WG2299427 |
| G-E1-1-4.0 | L1739664-10 | C32-C40 Hydrocarbons | 1430 | | 142 | 426 | 100 | 06/06/2024 10:43 | WG2299427 |
| G-E1-1-5.0 | L1739664-11 | C22-C32 Hydrocarbons | 859 | | 280 | 842 | 200 | 05/31/2024 10:42 | WG2295239 |
| G-E1-1-5.0 | L1739664-11 | C32-C40 Hydrocarbons | 1430 | | 280 | 842 | 200 | 05/31/2024 10:42 | WG2295239 |
| GW-2-14 | L1739664-12 | C22-C32 Hydrocarbons | 936 | | 294 | 883 | 200 | 05/30/2024 20:40 | WG2295239 |
| GW-2-14 | L1739664-12 | C32-C40 Hydrocarbons | 1490 | | 294 | 883 | 200 | 05/30/2024 20:40 | WG2295239 |
| G/UC-C4-1-2.0 | L1739664-17 | C12-C22 Hydrocarbons | 29.4 | | 0.848 | 4.63 | 1 | 06/06/2024 03:16 | WG2299427 |
| G/UC-C4-1-2.0 | L1739664-17 | C22-C32 Hydrocarbons | 65.5 | | 1.54 | 4.63 | 1 | 06/06/2024 03:16 | WG2299427 |
| G/UC-C4-1-2.0 | L1739664-17 | C32-C40 Hydrocarbons | 27.4 | | 1.54 | 4.63 | 1 | 06/06/2024 03:16 | WG2299427 |
| G/UC-C4-1-3.0 | L1739664-18 | C12-C22 Hydrocarbons | 54.8 | J J3 | 34.7 | 190 | 40 | 05/31/2024 11:11 | WG2295239 |
| G/UC-C4-1-3.0 | L1739664-18 | C22-C32 Hydrocarbons | 334 | J3 V | 63.0 | 190 | 40 | 05/31/2024 11:11 | WG2295239 |
| G/UC-C4-1-3.0 | L1739664-18 | C32-C40 Hydrocarbons | 380 | | 63.0 | 190 | 40 | 05/31/2024 11:11 | WG2295239 |
| G/UC-C4-1-4.0 | L1739664-19 | C12-C22 Hydrocarbons | 130 | J | 83.3 | 455 | 100 | 06/06/2024 10:29 | WG2299427 |
| G/UC-C4-1-4.0 | L1739664-19 | C22-C32 Hydrocarbons | 1080 | | 151 | 455 | 100 | 06/06/2024 10:29 | WG2299427 |
| G/UC-C4-1-4.0 | L1739664-19 | C32-C40 Hydrocarbons | 1310 | | 151 | 455 | 100 | 06/06/2024 10:29 | WG2299427 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-2.0 | L1739664-02 | Anthracene | 0.0515 | J | 0.0134 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Benzo(a)anthracene | 0.164 | | 0.0132 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Benzo(b)fluoranthene | 0.400 | | 0.0140 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Benzo(k)fluoranthene | 0.120 | | 0.0133 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Benzo(g,h,i)perylene | 0.135 | | 0.0138 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Benzo(a)pyrene | 0.270 | | 0.0140 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Chrysene | 0.215 | | 0.0149 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Dibenz(a,h)anthracene | 0.0412 | J | 0.0209 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Fluoranthene | 0.169 | | 0.0135 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Indeno(1,2,3-cd)pyrene | 0.163 | | 0.0212 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Naphthalene | 0.0826 | | 0.0189 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Phenanthrene | 0.0984 | | 0.0149 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Pyrene | 0.165 | | 0.0147 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| BS-E1-1-2.0 | L1739664-02 | Phenol | 0.0365 | J | 0.0303 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1-3.0 | L1739664-03 | Acenaphthene | 0.0461 | | 0.00731 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Anthracene | 0.0263 | J | 0.00804 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Benzo(a)anthracene | 0.0392 | J | 0.00796 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Benzo(b)fluoranthene | 0.0985 | | 0.00842 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Benzo(k)fluoranthene | 0.0260 | J | 0.00803 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Benzo(g,h,i)perylene | 0.0658 | | 0.00826 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Benzo(a)pyrene | 0.0669 | | 0.00840 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Chrysene | 0.0537 | | 0.00898 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Dibenz(a,h)anthracene | 0.0145 | J | 0.0125 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Fluoranthene | 0.0514 | | 0.00815 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Fluorene | 0.0304 | J | 0.00735 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Indeno(1,2,3-cd)pyrene | 0.0689 | | 0.0128 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Naphthalene | 0.0708 | | 0.0113 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Phenanthrene | 0.0628 | | 0.00897 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-3.0 | L1739664-03 | Pyrene | 0.0442 | J | 0.00879 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| BS-E1-1-4.0 | L1739664-04 | Acenaphthene | 0.0130 | J | 0.00633 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Anthracene | 0.0739 | | 0.00696 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Benzo(a)anthracene | 0.337 | | 0.00689 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Benzo(b)fluoranthene | 0.752 | | 0.00729 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Benzo(k)fluoranthene | 0.210 | | 0.00695 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Benzo(g,h,i)perylene | 0.361 | | 0.00715 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Benzo(a)pyrene | 0.513 | | 0.00727 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Chrysene | 0.364 | | 0.00777 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Dibenz(a,h)anthracene | 0.0964 | | 0.0108 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Fluoranthene | 0.395 | | 0.00706 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Fluorene | 0.0182 | J | 0.00636 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Indeno(1,2,3-cd)pyrene | 0.425 | | 0.0111 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Naphthalene | 0.168 | | 0.00982 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Phenanthrene | 0.200 | | 0.00776 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Benzylbutyl phthalate | 0.0224 | J | 0.0122 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Bis(2-ethylhexyl)phthalate | 0.0815 | J | 0.0496 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Pyrene | 0.368 | | 0.00761 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | 2,4-Dimethylphenol | 0.0301 | J | 0.0102 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| BS-E1-1-4.0 | L1739664-04 | Phenol | 0.0531 | J | 0.0157 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| G-E1-1-1.0 | L1739664-07 | Benzo(a)anthracene | 0.237 | J | 0.0670 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Benzo(b)fluoranthene | 0.427 | | 0.0709 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Benzo(k)fluoranthene | 0.132 | J | 0.0676 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Benzo(g,h,i)perylene | 0.213 | J | 0.0695 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Benzo(a)pyrene | 0.301 | J | 0.0706 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Chrysene | 0.314 | J | 0.0755 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Fluoranthene | 0.229 | J | 0.0686 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Indeno(1,2,3-cd)pyrene | 0.218 | J | 0.107 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Phenanthrene | 0.0882 | J | 0.0754 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-1.0 | L1739664-07 | Pyrene | 0.272 | J | 0.0739 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Benzo(a)anthracene | 0.608 | | 0.0671 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Benzo(b)fluoranthene | 1.13 | | 0.0710 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Benzo(k)fluoranthene | 0.359 | J | 0.0676 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Benzo(g,h,i)perylene | 0.481 | | 0.0696 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Benzo(a)pyrene | 0.704 | | 0.0707 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Chrysene | 0.961 | | 0.0756 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Dibenz(a,h)anthracene | 0.165 | J | 0.105 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Fluoranthene | 0.604 | | 0.0687 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Indeno(1,2,3-cd)pyrene | 0.471 | | 0.108 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Phenanthrene | 0.199 | J | 0.0755 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| G-E1-1-2.0 | L1739664-08 | Pyrene | 0.684 | | 0.0740 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-E1-1-3.0 | L1739664-09 | Anthracene | 0.0823 | J | 0.0703 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Benzo(a)anthracene | 1.36 | | 0.0696 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Benzo(b)fluoranthene | 2.39 | | 0.0736 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Benzo(k)fluoranthene | 0.738 | | 0.0702 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Benzo(g,h,i)perylene | 1.10 | | 0.0722 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Benzo(a)pyrene | 1.55 | | 0.0734 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Chrysene | 2.09 | | 0.0785 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Dibenz(a,h)anthracene | 0.380 | J | 0.109 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Fluoranthene | 1.22 | | 0.0712 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Indeno(1,2,3-cd)pyrene | 1.27 | | 0.112 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Naphthalene | 0.0996 | J J | 0.0991 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Phenanthrene | 0.389 | J | 0.0783 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G-E1-1-3.0 | L1739664-09 | Pyrene | 1.49 | | 0.0768 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Acenaphthene | 0.0309 | J | 0.00618 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Anthracene | 0.0287 | J | 0.00680 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Benzo(a)anthracene | 0.342 | | 0.00673 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Benzo(b)fluoranthene | 0.834 | | 0.00712 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Benzo(k)fluoranthene | 0.228 | | 0.00678 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Benzo(g,h,i)perylene | 0.408 | | 0.00698 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Benzo(a)pyrene | 0.534 | | 0.00709 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | 2,2-Oxybis(1-Chloropropane) | 0.0763 | J | 0.0165 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Chrysene | 0.393 | | 0.00759 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Dibenz(a,h)anthracene | 0.112 | | 0.0106 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Fluoranthene | 0.376 | | 0.00689 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Fluorene | 0.0227 | J | 0.00621 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Indeno(1,2,3-cd)pyrene | 0.434 | | 0.0108 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Naphthalene | 0.176 | | 0.00958 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Phenanthrene | 0.127 | | 0.00758 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Pyrene | 0.392 | | 0.00743 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-1.0 | L1739664-16 | Phenol | 0.0376 | J | 0.0154 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Acenaphthene | 0.0274 | J | 0.00624 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Anthracene | 0.0348 | J | 0.00686 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Benzo(a)anthracene | 0.157 | | 0.00679 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Benzo(b)fluoranthene | 0.358 | | 0.00719 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Benzo(k)fluoranthene | 0.107 | | 0.00685 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Benzo(g,h,i)perylene | 0.200 | | 0.00705 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Benzo(a)pyrene | 0.250 | | 0.00716 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Chrysene | 0.174 | | 0.00766 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Dibenz(a,h)anthracene | 0.0467 | | 0.0107 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Fluoranthene | 0.190 | | 0.00695 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Fluorene | 0.0258 | J | 0.00627 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Indeno(1,2,3-cd)pyrene | 0.218 | | 0.0109 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Naphthalene | 0.184 | | 0.00967 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Phenanthrene | 0.105 | | 0.00765 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Pyrene | 0.190 | | 0.00750 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-2.0 | L1739664-17 | Phenol | 0.0509 | J J | 0.0155 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Benzo(a)anthracene | 0.0958 | J J | 0.0695 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Benzo(b)fluoranthene | 0.186 | J J | 0.0736 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Benzo(g,h,i)perylene | 0.0846 | J J | 0.0721 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Benzo(a)pyrene | 0.120 | J J | 0.0733 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Chrysene | 0.101 | J J | 0.0784 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Fluoranthene | 0.180 | J J | 0.0712 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Naphthalene | 0.520 | | 0.0990 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Phenanthrene | 0.193 | J J | 0.0783 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Pyrene | 0.169 | J J | 0.0768 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| G/UC-C4-1-3.0 | L1739664-18 | Phenol | 0.993 | J | 0.159 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.2 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0591 | | 0.0219 | 0.0487 | 1 | 05/26/2024 22:07 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.29 | J | 0.662 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| Arsenic | 5.71 | | 0.630 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| Barium | 113 | | 0.104 | 0.608 | 1 | 06/04/2024 23:34 | WG2298458 |
| Beryllium | 0.312 | | 0.0383 | 0.243 | 1 | 06/04/2024 23:34 | WG2298458 |
| Cadmium | 0.263 | J | 0.0573 | 0.608 | 1 | 06/04/2024 23:34 | WG2298458 |
| Chromium | 39.0 | | 0.162 | 1.22 | 1 | 06/04/2024 23:34 | WG2298458 |
| Cobalt | 19.4 | | 0.0986 | 1.22 | 1 | 06/04/2024 23:34 | WG2298458 |
| Copper | 24.2 | | 0.487 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| Lead | 32.3 | | 0.253 | 0.608 | 1 | 06/04/2024 23:34 | WG2298458 |
| Molybdenum | 0.174 | J | 0.133 | 0.608 | 1 | 06/04/2024 23:34 | WG2298458 |
| Nickel | 117 | | 0.161 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| Selenium | U | | 0.929 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| Silver | 3.31 | | 0.154 | 1.22 | 1 | 06/04/2024 23:34 | WG2298458 |
| Thallium | 0.647 | J | 0.479 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| Vanadium | 32.7 | | 0.615 | 2.43 | 1 | 06/04/2024 23:34 | WG2298458 |
| Zinc | 76.8 | | 1.01 | 6.08 | 1 | 06/04/2024 23:34 | WG2298458 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0144 | 0.0414 | 1 | 05/30/2024 22:50 | WG2294622 |
| PCB 1221 | U | | 0.0144 | 0.0414 | 1 | 05/30/2024 22:50 | WG2294622 |
| PCB 1232 | U | | 0.0144 | 0.0414 | 1 | 05/30/2024 22:50 | WG2294622 |
| PCB 1242 | U | | 0.0144 | 0.0414 | 1 | 05/30/2024 22:50 | WG2294622 |
| PCB 1248 | U | | 0.00898 | 0.0207 | 1 | 05/30/2024 22:50 | WG2294622 |
| PCB 1254 | U | | 0.00898 | 0.0207 | 1 | 05/30/2024 22:50 | WG2294622 |
| PCB 1260 | U | | 0.00898 | 0.0207 | 1 | 05/30/2024 22:50 | WG2294622 |
| *(S) Decachlorobiphenyl* | *79.9* | | | *10.0-135* | | *05/30/2024 22:50* | WG2294622 |
| *(S) Tetrachloro-m-xylene* | *80.9* | | | *10.0-139* | | *05/30/2024 22:50* | WG2294622 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0656 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Acenaphthylene | U | | 0.0570 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Anthracene | U | | 0.0721 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Benzidine | U | | 0.761 | 20.3 | 10 | 05/31/2024 21:58 | WG2295243 |
| Benzo(a)anthracene | U | | 0.0714 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Benzo(b)fluoranthene | U | | 0.0755 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Benzo(k)fluoranthene | U | | 0.0720 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Benzo(g,h,i)perylene | U | | 0.0741 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Benzo(a)pyrene | U | | 0.0753 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.122 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.134 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.175 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.142 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.0712 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.141 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Chrysene | U | | 0.0805 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Dibenz(a,h)anthracene | U | | 0.112 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.120 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.123 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.121 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.150 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.116 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.133 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Fluoranthene | U | | 0.0731 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Fluorene | U | | 0.0659 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Hexachlorobenzene | U | | 0.144 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.136 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.213 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Hexachloroethane | U | | 0.159 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | U | | 0.114 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Isophorone | U | | 0.124 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Naphthalene | U | | 0.102 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Nitrobenzene | U | | 0.141 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.601 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.307 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.135 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Phenanthrene | U | | 0.0804 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.127 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.513 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.139 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Diethyl phthalate | U | | 0.134 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Dimethyl phthalate | U | | 0.859 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.274 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Pyrene | U | | 0.0788 | 0.405 | 10 | 05/31/2024 21:58 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.127 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.131 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2-Chlorophenol | U | | 0.134 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.118 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.106 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.918 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.948 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2-Nitrophenol | U | | 0.145 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 4-Nitrophenol | U | | 0.127 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Pentachlorophenol | U | | 0.109 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| Phenol | U | | 0.163 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.130 | 4.05 | 10 | 05/31/2024 21:58 | WG2295243 |
| *(S) 2-Fluorophenol* | *78.9* | | | *12.0-120* | | *05/31/2024 21:58* | WG2295243 |
| *(S) Phenol-d5* | *74.8* | | | *10.0-120* | | *05/31/2024 21:58* | WG2295243 |
| *(S) Nitrobenzene-d5* | *62.8* | | | *10.0-122* | | *05/31/2024 21:58* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *74.3* | | | *15.0-120* | | *05/31/2024 21:58* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *77.0* | | | *10.0-127* | | *05/31/2024 21:58* | WG2295243 |
| *(S) p-Terphenyl-d14* | *81.0* | | | *10.0-120* | | *05/31/2024 21:58* | WG2295243 |

**Sample Narrative:**

L1739664-01 WG2295243: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 88.6 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0699 | | 0.0203 | 0.0452 | 1 | 05/26/2024 22:10 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.614 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| Arsenic | 2.77 | | 0.585 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| Barium | 63.7 | | 0.0962 | 0.564 | 1 | 06/01/2024 19:03 | WG2293711 |
| Beryllium | 0.193 | J | 0.0356 | 0.226 | 1 | 06/01/2024 19:03 | WG2293711 |
| Cadmium | 2.14 | | 0.0532 | 0.564 | 1 | 06/01/2024 19:03 | WG2293711 |
| Chromium | 23.3 | | 0.150 | 1.13 | 1 | 06/01/2024 19:03 | WG2293711 |
| Cobalt | 4.16 | | 0.0916 | 1.13 | 1 | 06/01/2024 19:03 | WG2293711 |
| Copper | 25.0 | | 0.452 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| Lead | 490 | | 0.235 | 0.564 | 1 | 06/01/2024 19:03 | WG2293711 |
| Molybdenum | 1.69 | | 0.123 | 0.564 | 1 | 06/01/2024 19:03 | WG2293711 |
| Nickel | 22.2 | | 0.149 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| Selenium | U | | 0.863 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| Silver | 0.718 | J | 0.143 | 1.13 | 1 | 06/01/2024 19:03 | WG2293711 |
| Thallium | 0.946 | J | 0.445 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| Vanadium | 14.1 | | 0.571 | 2.26 | 1 | 06/01/2024 19:03 | WG2293711 |
| Zinc | 215 | | 0.939 | 5.64 | 1 | 06/01/2024 19:03 | WG2293711 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0463 | 0.0634 | 1 | 05/31/2024 10:32 | WG2294587 |
| Acrylonitrile | U | | 0.00458 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| Benzene | 0.00958 | | 0.000592 | 0.00127 | 1 | 05/31/2024 10:32 | WG2294587 |
| Bromobenzene | U | | 0.00114 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| Bromodichloromethane | U | | 0.000919 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Bromoform | U | | 0.00148 | 0.0317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Bromomethane | U | J3 | 0.00250 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| n-Butylbenzene | U | | 0.00666 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| sec-Butylbenzene | U | | 0.00365 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| tert-Butylbenzene | U | | 0.00247 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| Carbon tetrachloride | U | | 0.00114 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| Chlorobenzene | U | | 0.000266 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Chlorodibromomethane | U | | 0.000776 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Chloroethane | U | | 0.00216 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| Chloroform | U | | 0.00131 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Chloromethane | U | | 0.00551 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00110 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000570 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00494 | 0.0317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.000822 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Dibromomethane | U | | 0.000951 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2-Dichlorobenzene | 0.00171 | J | 0.000539 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.000761 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,4-Dichlorobenzene | 0.00256 | J | 0.000887 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | J3 | 0.00204 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,1-Dichloroethane | U | | 0.000622 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.000823 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.000768 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| cis-1,2-Dichloroethene | U | | 0.000931 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| trans-1,2-Dichloroethene | U | | 0.00132 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00180 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00103 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000635 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.000960 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00145 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00175 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Di-isopropyl ether | U | | 0.000520 | 0.00127 | 1 | 05/31/2024 10:32 | WG2294587 |
| Ethylbenzene | 0.0114 | | 0.000934 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00761 | 0.0317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Isopropylbenzene | 0.00392 | | 0.000539 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| p-Isopropyltoluene | 0.0231 | | 0.00323 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.0805 | 0.127 | 1 | 05/31/2024 10:32 | WG2294587 |
| Methylene Chloride | 0.0127 | J | 0.00842 | 0.0317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | 0.0104 | J | 0.00289 | 0.0317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Methyl tert-butyl ether | U | | 0.000444 | 0.00127 | 1 | 05/31/2024 10:32 | WG2294587 |
| Naphthalene | 0.0901 | | 0.00619 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| n-Propylbenzene | 0.00805 | | 0.00120 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| Styrene | U | | 0.000290 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00120 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000881 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000956 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Tetrachloroethene | 0.00162 | J | 0.00114 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Toluene | 0.0271 | | 0.00165 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.00929 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00558 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,1,1-Trichloroethane | 0.00409 | | 0.00117 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.000757 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Trichloroethene | U | | 0.000740 | 0.00127 | 1 | 05/31/2024 10:32 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00105 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00205 | 0.0158 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2,4-Trimethylbenzene | 0.0440 | | 0.00200 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,2,3-Trimethylbenzene | 0.0341 | | 0.00200 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| 1,3,5-Trimethylbenzene | 0.0184 | | 0.00254 | 0.00634 | 1 | 05/31/2024 10:32 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00147 | 0.00317 | 1 | 05/31/2024 10:32 | WG2294587 |
| Xylenes, Total | 0.103 | | 0.00112 | 0.00824 | 1 | 05/31/2024 10:32 | WG2294587 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *05/31/2024 10:32* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *05/31/2024 10:32* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *91.7* | | | *70.0-130* | | *05/31/2024 10:32* | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0122 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Acenaphthylene | U | | 0.0106 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Anthracene | 0.0515 | J | 0.0134 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Benzidine | U | | 0.141 | 3.77 | 2 | 06/01/2024 00:25 | WG2295243 |
| Benzo(a)anthracene | 0.164 | | 0.0132 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Benzo(b)fluoranthene | 0.400 | | 0.0140 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Benzo(k)fluoranthene | 0.120 | | 0.0133 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Benzo(g,h,i)perylene | 0.135 | | 0.0138 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.270 | | 0.0140 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.0226 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.0248 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0325 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.0264 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.0132 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.0262 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Chrysene | 0.215 | | 0.0149 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Dibenz(a,h)anthracene | 0.0412 | J | 0.0209 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.0222 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.0228 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.0224 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.0278 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.0216 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.0246 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Fluoranthene | 0.169 | | 0.0135 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Fluorene | U | | 0.0122 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Hexachlorobenzene | U | | 0.0266 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.0253 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.0395 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Hexachloroethane | U | | 0.0296 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | 0.163 | | 0.0212 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Isophorone | U | | 0.0230 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Naphthalene | 0.0826 | | 0.0189 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Nitrobenzene | U | | 0.0262 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.112 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.0569 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.0251 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Phenanthrene | 0.0984 | | 0.0149 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.0235 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0953 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.0257 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Diethyl phthalate | U | | 0.0248 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Dimethyl phthalate | U | | 0.159 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.0508 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Pyrene | 0.165 | | 0.0147 | 0.0752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.0235 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.0244 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2-Chlorophenol | U | | 0.0248 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.0219 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.0196 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.170 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.176 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2-Nitrophenol | U | | 0.0269 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 4-Nitrophenol | U | | 0.0235 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Pentachlorophenol | U | | 0.0202 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| Phenol | 0.0365 | J | 0.0303 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.0242 | 0.752 | 2 | 06/01/2024 00:25 | WG2295243 |
| *(S) 2-Fluorophenol* | *72.1* | | | *12.0-120* | | *06/01/2024 00:25* | WG2295243 |
| *(S) Phenol-d5* | *70.5* | | | *10.0-120* | | *06/01/2024 00:25* | WG2295243 |
| *(S) Nitrobenzene-d5* | *59.3* | | | *10.0-122* | | *06/01/2024 00:25* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *71.4* | | | *15.0-120* | | *06/01/2024 00:25* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *71.8* | | | *10.0-127* | | *06/01/2024 00:25* | WG2295243 |
| *(S) p-Terphenyl-d14* | *78.3* | | | *10.0-120* | | *06/01/2024 00:25* | WG2295243 |

**Sample Narrative:**

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1739664-02 WG2295243: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 73.7 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | U | | 0.0244 | 0.0543 | 1 | 05/26/2024 22:12 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.61 | J | 0.738 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| Arsenic | 1.99 | J | 0.703 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| Barium | 52.7 | | 0.116 | 0.678 | 1 | 06/01/2024 19:08 | WG2293711 |
| Beryllium | 0.251 | J | 0.0427 | 0.271 | 1 | 06/01/2024 19:08 | WG2293711 |
| Cadmium | 6.27 | | 0.0639 | 0.678 | 1 | 06/01/2024 19:08 | WG2293711 |
| Chromium | 20.8 | | 0.180 | 1.36 | 1 | 06/01/2024 19:08 | WG2293711 |
| Cobalt | 1.47 | B | 0.110 | 1.36 | 1 | 06/01/2024 19:08 | WG2293711 |
| Copper | 45.6 | | 0.543 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| Lead | 1470 | | 0.282 | 0.678 | 1 | 06/01/2024 19:08 | WG2293711 |
| Molybdenum | 3.93 | | 0.148 | 0.678 | 1 | 06/01/2024 19:08 | WG2293711 |
| Nickel | 12.6 | | 0.179 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| Selenium | U | | 1.04 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| Silver | 1.15 | J | 0.172 | 1.36 | 1 | 06/01/2024 19:08 | WG2293711 |
| Thallium | 0.653 | J | 0.534 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| Vanadium | 4.46 | | 0.686 | 2.71 | 1 | 06/01/2024 19:08 | WG2293711 |
| Zinc | 596 | | 1.13 | 6.78 | 1 | 06/01/2024 19:08 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 5.90 | B | 1.45 | 4.36 | 25 | 05/28/2024 12:16 | WG2294179 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.0* | | | *77.0-120* | | *05/28/2024 12:16* | WG2294179 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0640 | 0.0877 | 1 | 05/31/2024 10:51 | WG2294587 |
| Acrylonitrile | U | | 0.00633 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| Benzene | 0.0155 | | 0.000819 | 0.00175 | 1 | 05/31/2024 10:51 | WG2294587 |
| Bromobenzene | U | | 0.00158 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| Bromodichloromethane | U | | 0.00127 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Bromoform | U | | 0.00205 | 0.0439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Bromomethane | U | J3 | 0.00346 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| n-Butylbenzene | 0.0103 | J | 0.00921 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| sec-Butylbenzene | U | | 0.00505 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| tert-Butylbenzene | U | | 0.00342 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| Carbon tetrachloride | U | | 0.00158 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| Chlorobenzene | U | | 0.000368 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Chlorodibromomethane | U | | 0.00107 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Chloroethane | U | | 0.00298 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| Chloroform | U | | 0.00181 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Chloromethane | U | | 0.00763 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00152 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000789 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00684 | 0.0439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.00114 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Dibromomethane | U | | 0.00132 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2-Dichlorobenzene | 0.00122 | J | 0.000746 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.00105 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,4-Dichlorobenzene | 0.00246 | J | 0.00123 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| Dichlorodifluoromethane | U | J3 | 0.00282 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,1-Dichloroethane | U | | 0.000861 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.00114 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.00106 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| cis-1,2-Dichloroethene | U | | 0.00129 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| trans-1,2-Dichloroethene | U | | 0.00182 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00249 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00142 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000879 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.00133 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00200 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00242 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Di-isopropyl ether | U | | 0.000719 | 0.00175 | 1 | 05/31/2024 10:51 | WG2294587 |
| Ethylbenzene | 0.0133 | | 0.00129 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.0105 | 0.0439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Isopropylbenzene | 0.00482 | | 0.000746 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| p-Isopropyltoluene | 0.0261 | | 0.00447 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.111 | 0.175 | 1 | 05/31/2024 10:51 | WG2294587 |
| Methylene Chloride | 0.0162 | J | 0.0116 | 0.0439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | 0.00956 | J | 0.00400 | 0.0439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Methyl tert-butyl ether | U | | 0.000614 | 0.00175 | 1 | 05/31/2024 10:51 | WG2294587 |
| Naphthalene | 0.0956 | | 0.00856 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| n-Propylbenzene | 0.00939 | | 0.00167 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| Styrene | U | | 0.000402 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00166 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00122 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00132 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Tetrachloroethene | 0.00237 | J | 0.00157 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Toluene | 0.0393 | | 0.00228 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.0129 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00772 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,1,1-Trichloroethane | U | | 0.00162 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.00105 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Trichloroethene | U | | 0.00102 | 0.00175 | 1 | 05/31/2024 10:51 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00145 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00284 | 0.0219 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2,4-Trimethylbenzene | 0.0479 | | 0.00277 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,2,3-Trimethylbenzene | 0.0365 | | 0.00277 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| 1,3,5-Trimethylbenzene | 0.0219 | | 0.00351 | 0.00877 | 1 | 05/31/2024 10:51 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00203 | 0.00439 | 1 | 05/31/2024 10:51 | WG2294587 |
| Xylenes, Total | 0.117 | | 0.00154 | 0.0114 | 1 | 05/31/2024 10:51 | WG2294587 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *05/31/2024 10:51* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *05/31/2024 10:51* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *89.8* | | | *70.0-130* | | *05/31/2024 10:51* | WG2294587 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 11.4 | | 0.994 | 5.43 | 1 | 05/30/2024 19:04 | WG2295239 |
| C22-C32 Hydrocarbons | 24.4 | | 1.80 | 5.43 | 1 | 05/30/2024 19:04 | WG2295239 |
| C32-C40 Hydrocarbons | 12.6 | | 1.80 | 5.43 | 1 | 05/30/2024 19:04 | WG2295239 |
| *(S) o-Terphenyl* | *36.3* | | | *18.0-148* | | *05/30/2024 19:04* | WG2295239 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0461 | | 0.00731 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Acenaphthylene | U | | 0.00636 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Anthracene | 0.0263 | J | 0.00804 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Benzidine | U | | 0.0849 | 2.27 | 1 | 05/31/2024 21:09 | WG2295243 |
| Benzo(a)anthracene | 0.0392 | J | 0.00796 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Benzo(b)fluoranthene | 0.0985 | | 0.00842 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Benzo(k)fluoranthene | 0.0260 | J | 0.00803 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Benzo(g,h,i)perylene | 0.0658 | | 0.00826 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Benzo(a)pyrene | 0.0669 | | 0.00840 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.0136 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.0149 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0195 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.0159 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.00794 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.0157 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Chrysene | 0.0537 | | 0.00898 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Dibenz(a,h)anthracene | 0.0145 | J | 0.0125 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.0134 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.0137 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.0134 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.0167 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.0130 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.0148 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Fluoranthene | 0.0514 | | 0.00815 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Fluorene | 0.0304 | J | 0.00735 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Hexachlorobenzene | U | | 0.0160 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.0152 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.0237 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Hexachloroethane | U | | 0.0178 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | 0.0689 | | 0.0128 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Isophorone | U | | 0.0138 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Naphthalene | 0.0708 | | 0.0113 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Nitrobenzene | U | | 0.0157 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.0670 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.0342 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.0151 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Phenanthrene | 0.0628 | | 0.00897 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.0141 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0572 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.0155 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Diethyl phthalate | U | | 0.0149 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Dimethyl phthalate | U | | 0.0958 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.0305 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Pyrene | 0.0442 | J | 0.00879 | 0.0452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.0141 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.0146 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2-Chlorophenol | U | | 0.0149 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.0132 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0118 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.102 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.106 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2-Nitrophenol | U | | 0.0161 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 4-Nitrophenol | U | | 0.0141 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Pentachlorophenol | U | | 0.0122 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| Phenol | U | | 0.0182 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.0145 | 0.452 | 1 | 05/31/2024 21:09 | WG2295243 |
| *(S) 2-Fluorophenol* | *57.8* | | | *12.0-120* | | *05/31/2024 21:09* | WG2295243 |
| *(S) Phenol-d5* | *55.6* | | | *10.0-120* | | *05/31/2024 21:09* | WG2295243 |
| *(S) Nitrobenzene-d5* | *46.3* | | | *10.0-122* | | *05/31/2024 21:09* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *59.0* | | | *15.0-120* | | *05/31/2024 21:09* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *59.9* | | | *10.0-127* | | *05/31/2024 21:09* | WG2295243 |
| *(S) p-Terphenyl-d14* | *63.7* | | | *10.0-120* | | *05/31/2024 21:09* | WG2295243 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 85.2 | | 1 | 06/06/2024 09:58 | WG2299600 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.127 | | 0.0211 | 0.0470 | 1 | 06/07/2024 16:56 | WG2299461 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 8.35 | | 0.639 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| Arsenic | 4.53 | | 0.608 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| Barium | 85.5 | | 0.100 | 0.587 | 1 | 06/11/2024 19:02 | WG2299929 |
| Beryllium | 0.319 | | 0.0370 | 0.235 | 1 | 06/11/2024 19:02 | WG2299929 |
| Cadmium | 6.22 | | 0.0553 | 0.587 | 1 | 06/11/2024 19:02 | WG2299929 |
| Chromium | 46.4 | | 0.156 | 1.17 | 1 | 06/11/2024 19:02 | WG2299929 |
| Cobalt | 4.59 | | 0.0952 | 1.17 | 1 | 06/11/2024 19:02 | WG2299929 |
| Copper | 65.3 | | 0.470 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| Lead | 1430 | | 0.244 | 0.587 | 1 | 06/11/2024 19:02 | WG2299929 |
| Molybdenum | 5.33 | | 0.128 | 0.587 | 1 | 06/11/2024 19:02 | WG2299929 |
| Nickel | 33.0 | | 0.155 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| Selenium | 1.36 | J | 0.897 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| Silver | 0.987 | J | 0.149 | 1.17 | 1 | 06/11/2024 19:02 | WG2299929 |
| Thallium | U | | 0.463 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| Vanadium | 25.8 | | 0.594 | 2.35 | 1 | 06/11/2024 19:02 | WG2299929 |
| Zinc | 586 | | 0.977 | 5.87 | 1 | 06/11/2024 19:02 | WG2299929 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | 0.0130 | J | 0.00633 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Acenaphthylene | U | | 0.00551 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Anthracene | 0.0739 | | 0.00696 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Benzidine | U | | 0.0735 | 1.96 | 1 | 06/06/2024 15:11 | WG2298678 |
| Benzo(a)anthracene | 0.337 | | 0.00689 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Benzo(b)fluoranthene | 0.752 | | 0.00729 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Benzo(k)fluoranthene | 0.210 | | 0.00695 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Benzo(g,h,i)perylene | 0.361 | | 0.00715 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Benzo(a)pyrene | 0.513 | | 0.00727 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0117 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0129 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0169 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0137 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00687 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0136 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Chrysene | 0.364 | | 0.00777 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Dibenz(a,h)anthracene | 0.0964 | | 0.0108 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0116 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0119 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0116 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0144 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0112 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0128 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Fluoranthene | 0.395 | | 0.00706 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Fluorene | 0.0182 | J | 0.00636 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Hexachlorobenzene | U | | 0.0139 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0132 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0206 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Hexachloroethane | U | | 0.0154 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.425 | | 0.0111 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Isophorone | U | | 0.0120 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Naphthalene | 0.168 | | 0.00982 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Nitrobenzene | U | | 0.0136 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0580 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0296 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0130 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Phenanthrene | 0.200 | | 0.00776 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Benzylbutyl phthalate | 0.0224 | J | 0.0122 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | 0.0815 | J | 0.0496 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0134 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Diethyl phthalate | U | | 0.0129 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Dimethyl phthalate | U | | 0.0829 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0264 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Pyrene | 0.368 | | 0.00761 | 0.0391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0122 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0127 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2-Chlorophenol | U | | 0.0129 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0114 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2,4-Dimethylphenol | 0.0301 | J | 0.0102 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0887 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0915 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2-Nitrophenol | U | | 0.0140 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 4-Nitrophenol | U | | 0.0122 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Pentachlorophenol | U | | 0.0105 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| Phenol | 0.0531 | J | 0.0157 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0126 | 0.391 | 1 | 06/06/2024 15:11 | WG2298678 |
| *(S) 2-Fluorophenol* | *47.9* | | | *12.0-120* | | *06/06/2024 15:11* | WG2298678 |
| *(S) Phenol-d5* | *47.4* | | | *10.0-120* | | *06/06/2024 15:11* | WG2298678 |
| *(S) Nitrobenzene-d5* | *41.7* | | | *10.0-122* | | *06/06/2024 15:11* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *49.5* | | | *15.0-120* | | *06/06/2024 15:11* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *48.3* | | | *10.0-127* | | *06/06/2024 15:11* | WG2298678 |
| *(S) p-Terphenyl-d14* | *53.2* | | | *10.0-120* | | *06/06/2024 15:11* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.3 | | 1 | 05/27/2024 07:35 | WG2293518 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.53 | B J | 1.28 | 3.86 | 25 | 05/28/2024 12:36 | WG2294179 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.4* | | | *77.0-120* | | *05/28/2024 12:36* | WG2294179 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0547 | 0.0749 | 1 | 05/31/2024 11:10 | WG2294587 |
| Acrylonitrile | U | | 0.00541 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| Benzene | U | | 0.000699 | 0.00150 | 1 | 05/31/2024 11:10 | WG2294587 |
| Bromobenzene | U | | 0.00135 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| Bromodichloromethane | U | | 0.00109 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Bromoform | U | | 0.00175 | 0.0374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Bromomethane | U | J3 | 0.00295 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| n-Butylbenzene | U | | 0.00786 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| sec-Butylbenzene | U | | 0.00431 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| tert-Butylbenzene | U | | 0.00292 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| Carbon tetrachloride | U | | 0.00134 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| Chlorobenzene | U | | 0.000314 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Chlorodibromomethane | U | | 0.000916 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Chloroethane | U | | 0.00255 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| Chloroform | U | | 0.00154 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Chloromethane | U | | 0.00651 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00130 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000674 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00584 | 0.0374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.000970 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Dibromomethane | U | | 0.00112 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2-Dichlorobenzene | U | | 0.000636 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.000898 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,4-Dichlorobenzene | U | | 0.00105 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| Dichlorodifluoromethane | U | J3 | 0.00241 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,1-Dichloroethane | U | | 0.000735 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.000972 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.000907 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| cis-1,2-Dichloroethene | U | | 0.00110 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| trans-1,2-Dichloroethene | U | | 0.00156 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00213 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00121 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000750 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.00113 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00171 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00207 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Di-isopropyl ether | U | | 0.000614 | 0.00150 | 1 | 05/31/2024 11:10 | WG2294587 |
| Ethylbenzene | U | | 0.00110 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00898 | 0.0374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Isopropylbenzene | U | | 0.000636 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| p-Isopropyltoluene | U | | 0.00382 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.0951 | 0.150 | 1 | 05/31/2024 11:10 | WG2294587 |
| Methylene Chloride | 0.0171 | J | 0.00994 | 0.0374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00341 | 0.0374 | 1 | 05/31/2024 11:10 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000524 | 0.00150 | 1 | 05/31/2024 11:10 | WG2294587 |
| Naphthalene | U | | 0.00731 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| n-Propylbenzene | U | | 0.00142 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| Styrene | U | | 0.000343 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00142 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00104 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00113 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Tetrachloroethene | U | | 0.00134 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Toluene | 0.00198 | J | 0.00195 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.0110 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00659 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,1,1-Trichloroethane | U | | 0.00138 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.000894 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Trichloroethene | U | | 0.000874 | 0.00150 | 1 | 05/31/2024 11:10 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00124 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00243 | 0.0187 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2,4-Trimethylbenzene | U | | 0.00237 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,2,3-Trimethylbenzene | U | | 0.00237 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| 1,3,5-Trimethylbenzene | U | | 0.00299 | 0.00749 | 1 | 05/31/2024 11:10 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00174 | 0.00374 | 1 | 05/31/2024 11:10 | WG2294587 |
| Xylenes, Total | 0.00539 | J | 0.00132 | 0.00973 | 1 | 05/31/2024 11:10 | WG2294587 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *05/31/2024 11:10* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/31/2024 11:10* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *87.4* | | | *70.0-130* | | *05/31/2024 11:10* | WG2294587 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 9.13 | 49.8 | 10 | 05/31/2024 10:56 | WG2295239 |
| C22-C32 Hydrocarbons | 82.5 | | 16.6 | 49.8 | 10 | 05/31/2024 10:56 | WG2295239 |
| C32-C40 Hydrocarbons | 99.0 | | 16.6 | 49.8 | 10 | 05/31/2024 10:56 | WG2295239 |
| *(S) o-Terphenyl* | *70.9* | | | *18.0-148* | | *05/31/2024 10:56* | WG2295239 |

**Sample Narrative:**

L1739664-05 WG2295239: Cannot run at lower dilution due to viscosity of extract.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.6 | | 1 | 05/24/2024 15:10 | WG2292768 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.62 | B J | 1.16 | 3.50 | 25 | 05/28/2024 12:55 | WG2294179 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.4* | | | *77.0-120* | | *05/28/2024 12:55* | WG2294179 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0513 | 0.0702 | 1 | 05/31/2024 11:30 | WG2294587 |
| Acrylonitrile | U | | 0.00507 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| Benzene | U | | 0.000656 | 0.00140 | 1 | 05/31/2024 11:30 | WG2294587 |
| Bromobenzene | U | | 0.00126 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| Bromodichloromethane | U | | 0.00102 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Bromoform | U | | 0.00164 | 0.0351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Bromomethane | U | J3 | 0.00277 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| n-Butylbenzene | U | | 0.00737 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| sec-Butylbenzene | U | | 0.00404 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| tert-Butylbenzene | U | | 0.00274 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| Carbon tetrachloride | U | | 0.00126 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| Chlorobenzene | U | | 0.000295 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Chlorodibromomethane | U | | 0.000860 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Chloroethane | U | | 0.00239 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| Chloroform | U | | 0.00145 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Chloromethane | U | | 0.00611 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00121 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000632 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00548 | 0.0351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.000910 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Dibromomethane | U | | 0.00105 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2-Dichlorobenzene | U | | 0.000597 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.000843 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,4-Dichlorobenzene | U | | 0.000983 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| Dichlorodifluoromethane | U | J3 | 0.00226 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,1-Dichloroethane | U | | 0.000690 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.000911 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.000851 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| cis-1,2-Dichloroethene | U | | 0.00103 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| trans-1,2-Dichloroethene | U | | 0.00146 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00199 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00114 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000704 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.00106 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00160 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00194 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Di-isopropyl ether | U | | 0.000576 | 0.00140 | 1 | 05/31/2024 11:30 | WG2294587 |
| Ethylbenzene | U | | 0.00104 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00843 | 0.0351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Isopropylbenzene | U | | 0.000597 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| p-Isopropyltoluene | U | | 0.00358 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.0892 | 0.140 | 1 | 05/31/2024 11:30 | WG2294587 |
| Methylene Chloride | 0.0116 | J | 0.00933 | 0.0351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00320 | 0.0351 | 1 | 05/31/2024 11:30 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000492 | 0.00140 | 1 | 05/31/2024 11:30 | WG2294587 |
| Naphthalene | U | | 0.00685 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| n-Propylbenzene | U | | 0.00133 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| Styrene | U | | 0.000322 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00133 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000976 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00106 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Tetrachloroethene | U | | 0.00126 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Toluene | U | | 0.00183 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.0103 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00618 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,1,1-Trichloroethane | U | | 0.00130 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.000838 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Trichloroethene | U | | 0.000820 | 0.00140 | 1 | 05/31/2024 11:30 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00116 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00228 | 0.0176 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2,4-Trimethylbenzene | U | | 0.00222 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,2,3-Trimethylbenzene | U | | 0.00222 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| 1,3,5-Trimethylbenzene | U | | 0.00281 | 0.00702 | 1 | 05/31/2024 11:30 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00163 | 0.00351 | 1 | 05/31/2024 11:30 | WG2294587 |
| Xylenes, Total | U | | 0.00124 | 0.00913 | 1 | 05/31/2024 11:30 | WG2294587 |
| *(S) Toluene-d8* | *99.9* | | | *75.0-131* | | *05/31/2024 11:30* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/31/2024 11:30* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *91.4* | | | *70.0-130* | | *05/31/2024 11:30* | WG2294587 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 6.68 | | 0.866 | 4.73 | 1 | 05/30/2024 18:51 | WG2295239 |
| C22-C32 Hydrocarbons | 25.6 | | 1.57 | 4.73 | 1 | 05/30/2024 18:51 | WG2295239 |
| C32-C40 Hydrocarbons | 13.7 | | 1.57 | 4.73 | 1 | 05/30/2024 18:51 | WG2295239 |
| *(S) o-Terphenyl* | *38.9* | | | *18.0-148* | | *05/30/2024 18:51* | WG2295239 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 87.6 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0920 | | 0.0205 | 0.0456 | 1 | 05/26/2024 22:15 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.621 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| Arsenic | 1.95 | J | 0.591 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| Barium | 62.2 | | 0.0972 | 0.571 | 1 | 06/01/2024 19:10 | WG2293711 |
| Beryllium | 0.0882 | J | 0.0359 | 0.228 | 1 | 06/01/2024 19:10 | WG2293711 |
| Cadmium | 0.171 | J | 0.0537 | 0.571 | 1 | 06/01/2024 19:10 | WG2293711 |
| Chromium | 9.50 | | 0.152 | 1.14 | 1 | 06/01/2024 19:10 | WG2293711 |
| Cobalt | 4.87 | | 0.0926 | 1.14 | 1 | 06/01/2024 19:10 | WG2293711 |
| Copper | 24.4 | | 0.456 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| Lead | 120 | | 0.237 | 0.571 | 1 | 06/01/2024 19:10 | WG2293711 |
| Molybdenum | 0.127 | J | 0.124 | 0.571 | 1 | 06/01/2024 19:10 | WG2293711 |
| Nickel | 13.7 | | 0.151 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| Selenium | U | | 0.872 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| Silver | 0.376 | J | 0.145 | 1.14 | 1 | 06/01/2024 19:10 | WG2293711 |
| Thallium | 0.706 | J | 0.450 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| Vanadium | 14.8 | | 0.577 | 2.28 | 1 | 06/01/2024 19:10 | WG2293711 |
| Zinc | 53.8 | | 0.949 | 5.71 | 1 | 06/01/2024 19:10 | WG2293711 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0135 | 0.0388 | 1 | 05/30/2024 23:01 | WG2294622 |
| PCB 1221 | U | | 0.0135 | 0.0388 | 1 | 05/30/2024 23:01 | WG2294622 |
| PCB 1232 | U | | 0.0135 | 0.0388 | 1 | 05/30/2024 23:01 | WG2294622 |
| PCB 1242 | U | | 0.0135 | 0.0388 | 1 | 05/30/2024 23:01 | WG2294622 |
| PCB 1248 | U | | 0.00842 | 0.0194 | 1 | 05/30/2024 23:01 | WG2294622 |
| PCB 1254 | U | | 0.00842 | 0.0194 | 1 | 05/30/2024 23:01 | WG2294622 |
| PCB 1260 | U | | 0.00842 | 0.0194 | 1 | 05/30/2024 23:01 | WG2294622 |
| *(S) Decachlorobiphenyl* | *74.7* | | | *10.0-135* | | *05/30/2024 23:01* | WG2294622 |
| *(S) Tetrachloro-m-xylene* | *73.8* | | | *10.0-139* | | *05/30/2024 23:01* | WG2294622 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0615 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Acenaphthylene | U | | 0.0535 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Anthracene | U | | 0.0677 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Benzidine | U | | 0.714 | 19.1 | 10 | 05/31/2024 22:47 | WG2295243 |
| Benzo(a)anthracene | 0.237 | J | 0.0670 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Benzo(b)fluoranthene | 0.427 | | 0.0709 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Benzo(k)fluoranthene | 0.132 | J | 0.0676 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Benzo(g,h,i)perylene | 0.213 | J | 0.0695 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Benzo(a)pyrene | 0.301 | J | 0.0706 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.114 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.126 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.164 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.134 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.0668 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.132 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Chrysene | 0.314 | J | 0.0755 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Dibenz(a,h)anthracene | U | | 0.105 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.113 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.115 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.113 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.140 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.109 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.124 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Fluoranthene | 0.229 | J | 0.0686 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Fluorene | U | | 0.0619 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Hexachlorobenzene | U | | 0.135 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.128 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.200 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Hexachloroethane | U | | 0.149 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | 0.218 | J | 0.107 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Isophorone | U | | 0.116 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Naphthalene | U | | 0.0954 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Nitrobenzene | U | | 0.132 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.564 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.288 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.127 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Phenanthrene | 0.0882 | J | 0.0754 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.119 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.482 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.130 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Diethyl phthalate | U | | 0.126 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Dimethyl phthalate | U | | 0.806 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.257 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Pyrene | 0.272 | J | 0.0739 | 0.380 | 10 | 05/31/2024 22:47 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.119 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.123 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2-Chlorophenol | U | | 0.126 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.111 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.0993 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.862 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.889 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2-Nitrophenol | U | | 0.136 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 4-Nitrophenol | U | | 0.119 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Pentachlorophenol | U | | 0.102 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| Phenol | U | | 0.153 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.122 | 3.80 | 10 | 05/31/2024 22:47 | WG2295243 |
| *(S) 2-Fluorophenol* | *80.0* | | | *12.0-120* | | *05/31/2024 22:47* | WG2295243 |
| *(S) Phenol-d5* | *76.7* | | | *10.0-120* | | *05/31/2024 22:47* | WG2295243 |
| *(S) Nitrobenzene-d5* | *64.1* | | | *10.0-122* | | *05/31/2024 22:47* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *74.9* | | | *15.0-120* | | *05/31/2024 22:47* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *73.5* | | | *10.0-127* | | *05/31/2024 22:47* | WG2295243 |
| *(S) p-Terphenyl-d14* | *81.9* | | | *10.0-120* | | *05/31/2024 22:47* | WG2295243 |

**Sample Narrative:**

L1739664-07 WG2295243: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 87.5 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.287 | | 0.0206 | 0.0457 | 1 | 05/26/2024 22:22 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.622 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| Arsenic | 13.4 | | 0.592 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| Barium | 177 | | 0.0973 | 0.571 | 1 | 06/01/2024 19:11 | WG2293711 |
| Beryllium | 0.330 | | 0.0360 | 0.229 | 1 | 06/01/2024 19:11 | WG2293711 |
| Cadmium | 0.262 | J | 0.0538 | 0.571 | 1 | 06/01/2024 19:11 | WG2293711 |
| Chromium | 29.3 | | 0.152 | 1.14 | 1 | 06/01/2024 19:11 | WG2293711 |
| Cobalt | 7.73 | | 0.0927 | 1.14 | 1 | 06/01/2024 19:11 | WG2293711 |
| Copper | 47.3 | | 0.457 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| Lead | 83.5 | | 0.238 | 0.571 | 1 | 06/01/2024 19:11 | WG2293711 |
| Molybdenum | 0.212 | J | 0.125 | 0.571 | 1 | 06/01/2024 19:11 | WG2293711 |
| Nickel | 38.1 | | 0.151 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| Selenium | U | | 0.873 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| Silver | 2.45 | | 0.145 | 1.14 | 1 | 06/01/2024 19:11 | WG2293711 |
| Thallium | 1.51 | J | 0.450 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| Vanadium | 30.5 | | 0.578 | 2.29 | 1 | 06/01/2024 19:11 | WG2293711 |
| Zinc | 143 | | 0.951 | 5.71 | 1 | 06/01/2024 19:11 | WG2293711 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0483 | 0.0662 | 1 | 05/31/2024 11:49 | WG2294587 |
| Acrylonitrile | U | | 0.00478 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| Benzene | U | | 0.000618 | 0.00132 | 1 | 05/31/2024 11:49 | WG2294587 |
| Bromobenzene | U | | 0.00119 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| Bromodichloromethane | U | | 0.000960 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Bromoform | U | | 0.00155 | 0.0331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Bromomethane | U | J3 | 0.00261 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| n-Butylbenzene | U | | 0.00695 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| sec-Butylbenzene | U | | 0.00381 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| tert-Butylbenzene | U | | 0.00258 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| Carbon tetrachloride | U | | 0.00119 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| Chlorobenzene | U | | 0.000278 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Chlorodibromomethane | U | | 0.000810 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Chloroethane | U | | 0.00225 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| Chloroform | U | | 0.00136 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Chloromethane | U | | 0.00576 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00115 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000596 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00516 | 0.0331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.000858 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Dibromomethane | U | | 0.000993 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2-Dichlorobenzene | U | | 0.000563 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.000794 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,4-Dichlorobenzene | U | | 0.000927 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | J3 | 0.00213 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,1-Dichloroethane | U | | 0.000650 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.000859 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.000802 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| cis-1,2-Dichloroethene | U | | 0.000972 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| trans-1,2-Dichloroethene | U | | 0.00138 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00188 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00107 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000663 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.00100 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00151 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00183 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Di-isopropyl ether | U | | 0.000543 | 0.00132 | 1 | 05/31/2024 11:49 | WG2294587 |
| Ethylbenzene | U | | 0.000976 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00794 | 0.0331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Isopropylbenzene | U | | 0.000563 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| p-Isopropyltoluene | U | | 0.00338 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.0841 | 0.132 | 1 | 05/31/2024 11:49 | WG2294587 |
| Methylene Chloride | 0.00952 | J | 0.00879 | 0.0331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00302 | 0.0331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Methyl tert-butyl ether | U | | 0.000463 | 0.00132 | 1 | 05/31/2024 11:49 | WG2294587 |
| Naphthalene | U | | 0.00646 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| n-Propylbenzene | U | | 0.00126 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| Styrene | U | | 0.000303 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00125 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000920 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000998 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Tetrachloroethene | U | | 0.00119 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Toluene | U | | 0.00172 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.00970 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00582 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,1,1-Trichloroethane | U | | 0.00122 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.000790 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Trichloroethene | U | | 0.000773 | 0.00132 | 1 | 05/31/2024 11:49 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00109 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00214 | 0.0165 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2,4-Trimethylbenzene | U | | 0.00209 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,2,3-Trimethylbenzene | U | | 0.00209 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| 1,3,5-Trimethylbenzene | U | | 0.00265 | 0.00662 | 1 | 05/31/2024 11:49 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00154 | 0.00331 | 1 | 05/31/2024 11:49 | WG2294587 |
| Xylenes, Total | 0.00263 | J | 0.00116 | 0.00860 | 1 | 05/31/2024 11:49 | WG2294587 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *05/31/2024 11:49* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *05/31/2024 11:49* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *91.4* | | | *70.0-130* | | *05/31/2024 11:49* | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0616 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Acenaphthylene | U | | 0.0536 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Anthracene | U | | 0.0678 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Benzidine | U | | 0.715 | 19.1 | 10 | 06/02/2024 10:59 | WG2295243 |
| Benzo(a)anthracene | 0.608 | | 0.0671 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Benzo(b)fluoranthene | 1.13 | | 0.0710 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Benzo(k)fluoranthene | 0.359 | J | 0.0676 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Benzo(g,h,i)perylene | 0.481 | | 0.0696 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.704 | | 0.0707 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.114 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.126 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.165 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.134 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.0668 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.133 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Chrysene | 0.961 | | 0.0756 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Dibenz(a,h)anthracene | 0.165 | J | 0.105 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.113 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.115 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.113 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.141 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.109 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.125 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Fluoranthene | 0.604 | | 0.0687 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Fluorene | U | | 0.0619 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Hexachlorobenzene | U | | 0.135 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.128 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.200 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Hexachloroethane | U | | 0.150 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | 0.471 | | 0.108 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Isophorone | U | | 0.117 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Naphthalene | U | | 0.0955 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Nitrobenzene | U | | 0.133 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.564 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.288 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.127 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Phenanthrene | 0.199 | J | 0.0755 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.119 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.482 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.130 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Diethyl phthalate | U | | 0.126 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Dimethyl phthalate | U | | 0.807 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.257 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Pyrene | 0.684 | | 0.0740 | 0.380 | 10 | 06/02/2024 10:59 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.119 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.123 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2-Chlorophenol | U | | 0.126 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.111 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.0994 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.863 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.890 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2-Nitrophenol | U | | 0.136 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 4-Nitrophenol | U | | 0.119 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Pentachlorophenol | U | | 0.102 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| Phenol | U | | 0.153 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.122 | 3.80 | 10 | 06/02/2024 10:59 | WG2295243 |
| *(S) 2-Fluorophenol* | *68.6* | | | *12.0-120* | | *06/02/2024 10:59* | WG2295243 |
| *(S) Phenol-d5* | *62.2* | | | *10.0-120* | | *06/02/2024 10:59* | WG2295243 |
| *(S) Nitrobenzene-d5* | *61.9* | | | *10.0-122* | | *06/02/2024 10:59* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *73.0* | | | *15.0-120* | | *06/02/2024 10:59* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *77.6* | | | *10.0-127* | | *06/02/2024 10:59* | WG2295243 |
| *(S) p-Terphenyl-d14* | *72.1* | | | *10.0-120* | | *06/02/2024 10:59* | WG2295243 |

**Sample Narrative:**

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1739664-08 WG2295243: Dilution due to matrix

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.4 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.119 | | 0.0213 | 0.0474 | 1 | 05/26/2024 22:24 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | | 0.645 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| Arsenic | 3.78 | | 0.614 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| Barium | 183 | | 0.101 | 0.593 | 1 | 06/01/2024 19:13 | WG2293711 |
| Beryllium | 0.316 | | 0.0373 | 0.237 | 1 | 06/01/2024 19:13 | WG2293711 |
| Cadmium | 0.245 | J | 0.0558 | 0.593 | 1 | 06/01/2024 19:13 | WG2293711 |
| Chromium | 40.2 | | 0.158 | 1.19 | 1 | 06/01/2024 19:13 | WG2293711 |
| Cobalt | 12.6 | | 0.0961 | 1.19 | 1 | 06/01/2024 19:13 | WG2293711 |
| Copper | 59.0 | | 0.474 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| Lead | 98.2 | | 0.247 | 0.593 | 1 | 06/01/2024 19:13 | WG2293711 |
| Molybdenum | 0.148 | J | 0.129 | 0.593 | 1 | 06/01/2024 19:13 | WG2293711 |
| Nickel | 73.3 | | 0.156 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| Selenium | U | | 0.905 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| Silver | 1.11 | J | 0.151 | 1.19 | 1 | 06/01/2024 19:13 | WG2293711 |
| Thallium | 2.05 | J | 0.467 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| Vanadium | 44.7 | | 0.600 | 2.37 | 1 | 06/01/2024 19:13 | WG2293711 |
| Zinc | 127 | | 0.986 | 5.93 | 1 | 06/01/2024 19:13 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.53 | B J | 1.17 | 3.53 | 25 | 05/28/2024 13:15 | WG2294179 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.1* | | | *77.0-120* | | *05/28/2024 13:15* | WG2294179 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0507 | 0.0695 | 1 | 05/31/2024 12:08 | WG2294587 |
| Acrylonitrile | U | | 0.00502 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| Benzene | U | | 0.000649 | 0.00139 | 1 | 05/31/2024 12:08 | WG2294587 |
| Bromobenzene | U | | 0.00125 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| Bromodichloromethane | U | | 0.00101 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Bromoform | U | | 0.00163 | 0.0348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Bromomethane | U | J3 | 0.00274 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| n-Butylbenzene | U | | 0.00730 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| sec-Butylbenzene | U | | 0.00400 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| tert-Butylbenzene | U | | 0.00271 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| Carbon tetrachloride | U | | 0.00125 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| Chlorobenzene | U | | 0.000292 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Chlorodibromomethane | U | | 0.000851 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Chloroethane | U | | 0.00236 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| Chloroform | U | | 0.00143 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Chloromethane | U | | 0.00605 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00120 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000626 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00542 | 0.0348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.000901 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Dibromomethane | U | | 0.00104 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2-Dichlorobenzene | U | | 0.000591 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.000834 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,4-Dichlorobenzene | U | | 0.000973 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| Dichlorodifluoromethane | U | J3 | 0.00224 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,1-Dichloroethane | U | | 0.000683 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.000902 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.000843 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| cis-1,2-Dichloroethene | U | | 0.00102 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| trans-1,2-Dichloroethene | U | | 0.00145 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00197 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00112 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000697 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.00105 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00159 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00192 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Di-isopropyl ether | U | | 0.000570 | 0.00139 | 1 | 05/31/2024 12:08 | WG2294587 |
| Ethylbenzene | U | | 0.00102 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00834 | 0.0348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Isopropylbenzene | U | | 0.000591 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| p-Isopropyltoluene | U | | 0.00355 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.0883 | 0.139 | 1 | 05/31/2024 12:08 | WG2294587 |
| Methylene Chloride | 0.0116 | J | 0.00923 | 0.0348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00317 | 0.0348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Methyl tert-butyl ether | U | | 0.000487 | 0.00139 | 1 | 05/31/2024 12:08 | WG2294587 |
| Naphthalene | 0.0165 | J | 0.00679 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| n-Propylbenzene | U | | 0.00132 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| Styrene | U | | 0.000318 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00132 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000966 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00105 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Tetrachloroethene | U | | 0.00125 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Toluene | U | | 0.00181 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.0102 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00612 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,1,1-Trichloroethane | U | | 0.00128 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.000830 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Trichloroethene | U | | 0.000812 | 0.00139 | 1 | 05/31/2024 12:08 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00115 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00225 | 0.0174 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2,4-Trimethylbenzene | 0.00478 | J | 0.00220 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,2,3-Trimethylbenzene | 0.00648 | J | 0.00220 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| 1,3,5-Trimethylbenzene | U | | 0.00278 | 0.00695 | 1 | 05/31/2024 12:08 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00161 | 0.00348 | 1 | 05/31/2024 12:08 | WG2294587 |
| Xylenes, Total | 0.00442 | J | 0.00122 | 0.00904 | 1 | 05/31/2024 12:08 | WG2294587 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *05/31/2024 12:08* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *05/31/2024 12:08* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *91.9* | | | *70.0-130* | | *05/31/2024 12:08* | WG2294587 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 17.4 | 94.8 | 20 | 05/30/2024 20:26 | WG2295239 |
| C22-C32 Hydrocarbons | 124 | | 31.5 | 94.8 | 20 | 05/30/2024 20:26 | WG2295239 |
| C32-C40 Hydrocarbons | 172 | | 31.5 | 94.8 | 20 | 05/30/2024 20:26 | WG2295239 |
| *(S) o-Terphenyl* | *62.8* | J7 | | *18.0-148* | | *05/30/2024 20:26* | WG2295239 |

Sample Narrative:

L1739664-09 WG2295239: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0639 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Acenaphthylene | U | | 0.0556 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Anthracene | 0.0823 | J | 0.0703 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Benzidine | U | | 0.742 | 19.8 | 10 | 05/31/2024 22:23 | WG2295243 |
| Benzo(a)anthracene | 1.36 | | 0.0696 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Benzo(b)fluoranthene | 2.39 | | 0.0736 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Benzo(k)fluoranthene | 0.738 | | 0.0702 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Benzo(g,h,i)perylene | 1.10 | | 0.0722 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Benzo(a)pyrene | 1.55 | | 0.0734 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.119 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.130 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.171 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.139 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.0693 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.137 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Chrysene | 2.09 | | 0.0785 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Dibenz(a,h)anthracene | 0.380 | J | 0.109 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.117 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.120 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.117 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.146 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.113 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.129 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Fluoranthene | 1.22 | | 0.0712 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Fluorene | U | | 0.0642 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Hexachlorobenzene | U | | 0.140 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.133 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.207 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Hexachloroethane | U | | 0.155 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | 1.27 | | 0.112 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Isophorone | U | | 0.121 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Naphthalene | 0.0996 | J | 0.0991 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Nitrobenzene | U | | 0.137 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.585 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.299 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.132 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Phenanthrene | 0.389 | J | 0.0783 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.123 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.500 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.135 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Diethyl phthalate | U | | 0.130 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Dimethyl phthalate | U | | 0.837 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.267 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Pyrene | 1.49 | | 0.0768 | 0.395 | 10 | 05/31/2024 22:23 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.123 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.128 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2-Chlorophenol | U | | 0.130 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.115 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.103 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.895 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.923 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2-Nitrophenol | U | | 0.141 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 4-Nitrophenol | U | | 0.123 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Pentachlorophenol | U | | 0.106 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| Phenol | U | | 0.159 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.127 | 3.95 | 10 | 05/31/2024 22:23 | WG2295243 |
| *(S) 2-Fluorophenol* | *77.9* | | | *12.0-120* | | *05/31/2024 22:23* | WG2295243 |
| *(S) Phenol-d5* | *75.5* | | | *10.0-120* | | *05/31/2024 22:23* | WG2295243 |
| *(S) Nitrobenzene-d5* | *65.4* | | | *10.0-122* | | *05/31/2024 22:23* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *77.1* | | | *15.0-120* | | *05/31/2024 22:23* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *70.0* | | | *10.0-127* | | *05/31/2024 22:23* | WG2295243 |
| *(S) p-Terphenyl-d14* | *84.3* | | | *10.0-120* | | *05/31/2024 22:23* | WG2295243 |

**Sample Narrative:**

L1739664-09 WG2295243: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.8 | | 1 | 06/06/2024 09:58 | WG2299600 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.17 | B J | 0.958 | 2.88 | 25.5 | 06/05/2024 23:14 | WG2299418 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *06/05/2024 23:14* | WG2299418 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 79.3 | J | 78.2 | 426 | 100 | 06/06/2024 10:43 | WG2299427 |
| C22-C32 Hydrocarbons | 890 | | 142 | 426 | 100 | 06/06/2024 10:43 | WG2299427 |
| C32-C40 Hydrocarbons | 1430 | | 142 | 426 | 100 | 06/06/2024 10:43 | WG2299427 |
| *(S) o-Terphenyl* | *71.5* | J7 | | *18.0-148* | | *06/06/2024 10:43* | WG2299427 |

**Sample Narrative:**

L1739664-10 WG2299427: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.288 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Acenaphthylene | U | | 0.249 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Anthracene | U | | 0.317 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Benzidine | U | | 3.34 | 89.0 | 50 | 06/06/2024 18:55 | WG2298678 |
| Benzo(a)anthracene | U | | 0.312 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Benzo(b)fluoranthene | U | | 0.332 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Benzo(k)fluoranthene | U | | 0.316 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Benzo(g,h,i)perylene | U | | 0.325 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Benzo(a)pyrene | U | | 0.329 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.533 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.586 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.768 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.624 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.312 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.618 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Chrysene | U | | 0.353 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.493 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.527 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.538 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.529 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.656 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.509 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.581 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Fluoranthene | U | | 0.321 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Fluorene | U | | 0.289 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Hexachlorobenzene | U | | 0.629 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.597 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.933 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Hexachloroethane | U | | 0.698 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | U | | 0.502 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Isophorone | U | | 0.544 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Naphthalene | U | | 0.446 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Nitrobenzene | U | | 0.618 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| n-Nitrosodimethylamine | U | | 2.63 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 1.34 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.592 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Phenanthrene | U | | 0.353 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.554 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 2.25 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.608 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Diethyl phthalate | U | | 0.586 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Dimethyl phthalate | U | | 3.76 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Di-n-octyl phthalate | U | | 1.20 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Pyrene | U | | 0.345 | 1.78 | 50 | 06/06/2024 18:55 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.554 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.576 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2-Chlorophenol | U | | 0.586 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.517 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.464 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 4.03 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2,4-Dinitrophenol | U | | 4.16 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2-Nitrophenol | U | | 0.634 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 4-Nitrophenol | U | | 0.554 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Pentachlorophenol | U | | 0.478 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| Phenol | U | | 0.714 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.570 | 17.8 | 50 | 06/06/2024 18:55 | WG2298678 |
| *(S) 2-Fluorophenol* | *82.1* | J7 | | *12.0-120* | | *06/06/2024 18:55* | WG2298678 |
| *(S) Phenol-d5* | *64.9* | J7 | | *10.0-120* | | *06/06/2024 18:55* | WG2298678 |
| *(S) Nitrobenzene-d5* | *50.0* | J7 | | *10.0-122* | | *06/06/2024 18:55* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *69.8* | J7 | | *15.0-120* | | *06/06/2024 18:55* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *51.9* | J7 | | *10.0-127* | | *06/06/2024 18:55* | WG2298678 |
| *(S) p-Terphenyl-d14* | *77.4* | J7 | | *10.0-120* | | *06/06/2024 18:55* | WG2298678 |

**Sample Narrative:**

L1739664-10 WG2298678: Dilution due to matrix impact during extract concentration procedure.

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.0 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.35 | B J | 0.935 | 2.81 | 25.5 | 05/29/2024 01:38 | WG2294584 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *05/29/2024 01:38* | WG2294584 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.156 | | 0.0891 | 0.122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Acrylonitrile | U | | 0.00881 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Benzene | U | | 0.00114 | 0.00244 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Bromobenzene | U | | 0.00220 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Bromodichloromethane | U | | 0.00177 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Bromoform | U | | 0.00286 | 0.0610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Bromomethane | U | | 0.00480 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| n-Butylbenzene | U | | 0.0129 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| sec-Butylbenzene | U | | 0.00703 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| tert-Butylbenzene | U | | 0.00476 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Carbon tetrachloride | U | | 0.00219 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Chlorobenzene | U | | 0.000512 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Chlorodibromomethane | U | | 0.00150 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Chloroethane | U | | 0.00414 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Chloroform | U | | 0.00252 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Chloromethane | U | | 0.0106 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 2-Chlorotoluene | U | | 0.00211 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 4-Chlorotoluene | U | | 0.00110 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00952 | 0.0610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2-Dibromoethane | U | | 0.00158 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Dibromomethane | U | | 0.00184 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2-Dichlorobenzene | U | | 0.00104 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,3-Dichlorobenzene | U | | 0.00146 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,4-Dichlorobenzene | U | | 0.00170 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Dichlorodifluoromethane | U | | 0.00392 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,1-Dichloroethane | U | | 0.00120 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2-Dichloroethane | U | | 0.00158 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,1-Dichloroethene | U | | 0.00148 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| cis-1,2-Dichloroethene | U | | 0.00179 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| trans-1,2-Dichloroethene | U | | 0.00254 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2-Dichloropropane | U | | 0.00346 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,1-Dichloropropene | U | | 0.00198 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,3-Dichloropropane | U | | 0.00122 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| cis-1,3-Dichloropropene | U | | 0.00185 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| trans-1,3-Dichloropropene | U | | 0.00278 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 2,2-Dichloropropane | U | | 0.00336 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Di-isopropyl ether | U | | 0.00100 | 0.00244 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Ethylbenzene | U | | 0.00180 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Hexachloro-1,3-butadiene | U | | 0.0146 | 0.0610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Isopropylbenzene | U | | 0.00104 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| p-Isopropyltoluene | U | | 0.00622 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 2-Butanone (MEK) | U | | 0.155 | 0.244 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Methylene Chloride | 0.0191 | J | 0.0162 | 0.0610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00556 | 0.0610 | 2.22 | 06/01/2024 10:58 | WG2296712 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000854 | 0.00244 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Naphthalene | U | | 0.0119 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| n-Propylbenzene | U | | 0.00232 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Styrene | U | | 0.000558 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00231 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00169 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00184 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Tetrachloroethene | U | | 0.00219 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Toluene | 0.00445 | J | 0.00318 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2,3-Trichlorobenzene | U | | 0.0179 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2,4-Trichlorobenzene | U | | 0.0107 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,1,1-Trichloroethane | U | | 0.00225 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,1,2-Trichloroethane | U | | 0.00146 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Trichloroethene | U | | 0.00143 | 0.00244 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Trichlorofluoromethane | U | | 0.00202 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2,3-Trichloropropane | U | | 0.00396 | 0.0306 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00386 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,2,3-Trimethylbenzene | U | | 0.00386 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00488 | 0.0122 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Vinyl chloride | U | | 0.00284 | 0.00610 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| Xylenes, Total | 0.00433 | J | 0.00214 | 0.0158 | 2.22 | 06/01/2024 10:58 | WG2296712 |
| *(S) Toluene-d8* | *112* | | | *75.0-131* | | *06/01/2024 10:58* | WG2296712 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *67.0-138* | | *06/01/2024 10:58* | WG2296712 |
| *(S) 1,2-Dichloroethane-d4* | *87.4* | | | *70.0-130* | | *06/01/2024 10:58* | WG2296712 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 155 | 842 | 200 | 05/31/2024 10:42 | WG2295239 |
| C22-C32 Hydrocarbons | 859 | | 280 | 842 | 200 | 05/31/2024 10:42 | WG2295239 |
| C32-C40 Hydrocarbons | 1430 | | 280 | 842 | 200 | 05/31/2024 10:42 | WG2295239 |
| *(S) o-Terphenyl* | *92.3* | J7 | | *18.0-148* | | *05/31/2024 10:42* | WG2295239 |

**Sample Narrative:**

L1739664-11 WG2295239: Cannot run at lower dilution due to viscosity of extract.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.6 | | 1 | 05/24/2024 15:10 | WG2292768 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 3.51 | B J | 1.37 | 4.10 | 34.8 | 05/29/2024 03:45 | WG2294584 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.4* | | | *77.0-120* | | *05/29/2024 03:45* | WG2294584 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0448 | 0.0613 | 1 | 06/01/2024 11:18 | WG2296712 |
| Acrylonitrile | U | | 0.00443 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| Benzene | U | | 0.000573 | 0.00123 | 1 | 06/01/2024 11:18 | WG2296712 |
| Bromobenzene | U | | 0.00110 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| Bromodichloromethane | U | | 0.000889 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Bromoform | U | | 0.00144 | 0.0307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Bromomethane | U | | 0.00242 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| n-Butylbenzene | U | | 0.00644 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| sec-Butylbenzene | U | | 0.00353 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| tert-Butylbenzene | U | | 0.00239 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| Carbon tetrachloride | U | | 0.00110 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| Chlorobenzene | U | | 0.000258 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Chlorodibromomethane | U | | 0.000751 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Chloroethane | U | | 0.00209 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| Chloroform | U | | 0.00126 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Chloromethane | U | | 0.00534 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| 2-Chlorotoluene | U | | 0.00106 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 4-Chlorotoluene | U | | 0.000552 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00478 | 0.0307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2-Dibromoethane | U | | 0.000795 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Dibromomethane | U | | 0.000920 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2-Dichlorobenzene | U | | 0.000521 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,3-Dichlorobenzene | U | | 0.000736 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,4-Dichlorobenzene | U | | 0.000859 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| Dichlorodifluoromethane | U | | 0.00197 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,1-Dichloroethane | U | | 0.000602 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2-Dichloroethane | U | | 0.000796 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,1-Dichloroethene | U | | 0.000743 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| cis-1,2-Dichloroethene | U | | 0.000900 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| trans-1,2-Dichloroethene | U | | 0.00128 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2-Dichloropropane | U | | 0.00174 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,1-Dichloropropene | U | | 0.000992 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,3-Dichloropropane | U | | 0.000615 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| cis-1,3-Dichloropropene | U | | 0.000929 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| trans-1,3-Dichloropropene | U | | 0.00140 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 2,2-Dichloropropane | U | | 0.00169 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Di-isopropyl ether | U | | 0.000503 | 0.00123 | 1 | 06/01/2024 11:18 | WG2296712 |
| Ethylbenzene | U | | 0.000904 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Hexachloro-1,3-butadiene | U | | 0.00736 | 0.0307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Isopropylbenzene | U | | 0.000521 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| p-Isopropyltoluene | U | | 0.00313 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 2-Butanone (MEK) | U | | 0.0779 | 0.123 | 1 | 06/01/2024 11:18 | WG2296712 |
| Methylene Chloride | 0.00911 | J | 0.00815 | 0.0307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00280 | 0.0307 | 1 | 06/01/2024 11:18 | WG2296712 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000429 | 0.00123 | 1 | 06/01/2024 11:18 | WG2296712 |
| Naphthalene | U | | 0.00599 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| n-Propylbenzene | U | | 0.00117 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| Styrene | U | | 0.000281 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00116 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000853 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000925 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Tetrachloroethene | U | | 0.00110 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Toluene | 0.00222 | J | 0.00159 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2,3-Trichlorobenzene | U | | 0.00899 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2,4-Trichlorobenzene | U | | 0.00540 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,1,1-Trichloroethane | U | | 0.00113 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,1,2-Trichloroethane | U | | 0.000732 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Trichloroethene | U | | 0.000716 | 0.00123 | 1 | 06/01/2024 11:18 | WG2296712 |
| Trichlorofluoromethane | U | | 0.00101 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2,3-Trichloropropane | U | | 0.00199 | 0.0153 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2,4-Trimethylbenzene | U | J4 | 0.00194 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,2,3-Trimethylbenzene | U | | 0.00194 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| 1,3,5-Trimethylbenzene | U | J4 | 0.00245 | 0.00613 | 1 | 06/01/2024 11:18 | WG2296712 |
| Vinyl chloride | U | | 0.00142 | 0.00307 | 1 | 06/01/2024 11:18 | WG2296712 |
| Xylenes, Total | 0.00173 | J | 0.00108 | 0.00797 | 1 | 06/01/2024 11:18 | WG2296712 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *06/01/2024 11:18* | WG2296712 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/01/2024 11:18* | WG2296712 |
| *(S) 1,2-Dichloroethane-d4* | *84.1* | | | *70.0-130* | | *06/01/2024 11:18* | WG2296712 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 162 | 883 | 200 | 05/30/2024 20:40 | WG2295239 |
| C22-C32 Hydrocarbons | 936 | | 294 | 883 | 200 | 05/30/2024 20:40 | WG2295239 |
| C32-C40 Hydrocarbons | 1490 | | 294 | 883 | 200 | 05/30/2024 20:40 | WG2295239 |
| *(S) o-Terphenyl* | *72.9* | J7 | | *18.0-148* | | *05/30/2024 20:40* | WG2295239 |

**Sample Narrative:**

L1739664-12 WG2295239: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 18.3 | J | 11.3 | 50.0 | 1 | 05/30/2024 01:11 | WG2295186 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/30/2024 01:11 | WG2295186 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/30/2024 01:11 | WG2295186 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Chloroform | 0.202 | J | 0.111 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/30/2024 01:11 | WG2295186 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/30/2024 01:11 | WG2295186 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/30/2024 01:11 | WG2295186 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |

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

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/30/2024 01:11 | WG2295186 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *05/30/2024 01:11* | WG2295186 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *77.0-126* | | *05/30/2024 01:11* | WG2295186 |
| *(S) 1,2-Dichloroethane-d4* | *120* | | | *70.0-130* | | *05/30/2024 01:11* | WG2295186 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/27/2024 15:18 | WG2292614 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Arsenic | U | | 0.180 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Barium | U | | 0.381 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Chromium | U | | 1.24 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Copper | U | | 1.51 | 5.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Cobalt | U | | 0.0596 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Lead | U | | 0.849 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Molybdenum | U | | 0.348 | 5.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Nickel | U | | 0.816 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Selenium | U | | 0.300 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Silver | U | | 0.0700 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Thallium | U | | 0.121 | 2.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Vanadium | U | | 0.664 | 5.00 | 1 | 05/31/2024 16:02 | WG2295552 |
| Zinc | U | | 3.02 | 25.0 | 1 | 05/31/2024 16:02 | WG2295552 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 55.9 | B J | 30.4 | 100 | 1 | 05/27/2024 02:34 | WG2293775 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.9* | | | *78.0-120* | | *05/27/2024 02:34* | WG2293775 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 05/30/2024 01:53 | WG2295186 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/30/2024 01:53 | WG2295186 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/30/2024 01:53 | WG2295186 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Chloroform | 0.135 | J | 0.111 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/30/2024 01:53 | WG2295186 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/30/2024 01:53 | WG2295186 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/30/2024 01:53 | WG2295186 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/30/2024 01:53 | WG2295186 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *05/30/2024 01:53* | WG2295186 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *77.0-126* | | *05/30/2024 01:53* | WG2295186 |
| *(S) 1,2-Dichloroethane-d4* | *119* | | | *70.0-130* | | *05/30/2024 01:53* | WG2295186 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 85.2 | B J J4 | 33.0 | 100 | 1 | 05/31/2024 03:09 | WG2294628 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 03:09 | WG2294628 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 03:09 | WG2294628 |
| *(S) o-Terphenyl* | *57.4* | | | *52.0-156* | | *05/31/2024 03:09* | WG2294628 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 87.3 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0206 | 0.0458 | 1 | 05/26/2024 22:27 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.623 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| Arsenic | 2.95 | | 0.594 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| Barium | 128 | | 0.0976 | 0.573 | 1 | 06/01/2024 19:14 | WG2293711 |
| Beryllium | 0.598 | | 0.0361 | 0.229 | 1 | 06/01/2024 19:14 | WG2293711 |
| Cadmium | 0.523 | J | 0.0540 | 0.573 | 1 | 06/01/2024 19:14 | WG2293711 |
| Chromium | 66.3 | | 0.152 | 1.15 | 1 | 06/01/2024 19:14 | WG2293711 |
| Cobalt | 2.56 | | 0.0929 | 1.15 | 1 | 06/01/2024 19:14 | WG2293711 |
| Copper | 51.2 | | 0.458 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| Lead | 124 | | 0.238 | 0.573 | 1 | 06/01/2024 19:14 | WG2293711 |
| Molybdenum | 5.18 | | 0.125 | 0.573 | 1 | 06/01/2024 19:14 | WG2293711 |
| Nickel | 23.3 | | 0.151 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| Selenium | U | | 0.876 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| Silver | 1.51 | | 0.146 | 1.15 | 1 | 06/01/2024 19:14 | WG2293711 |
| Thallium | U | | 0.452 | 2.29 | 1 | 06/04/2024 10:33 | WG2293711 |
| Vanadium | 12.6 | | 0.580 | 2.29 | 1 | 06/01/2024 19:14 | WG2293711 |
| Zinc | 118 | | 0.954 | 5.73 | 1 | 06/01/2024 19:14 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 4.48 | B | 1.10 | 3.32 | 25.8 | 06/05/2024 23:34 | WG2299418 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* | | *06/05/2024 23:34* | WG2299418 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0135 | 0.0390 | 1 | 05/30/2024 23:11 | WG2294622 |
| PCB 1221 | U | | 0.0135 | 0.0390 | 1 | 05/30/2024 23:11 | WG2294622 |
| PCB 1232 | U | | 0.0135 | 0.0390 | 1 | 05/30/2024 23:11 | WG2294622 |
| PCB 1242 | U | | 0.0135 | 0.0390 | 1 | 05/30/2024 23:11 | WG2294622 |
| PCB 1248 | U | | 0.00846 | 0.0195 | 1 | 05/30/2024 23:11 | WG2294622 |
| PCB 1254 | U | | 0.00846 | 0.0195 | 1 | 05/30/2024 23:11 | WG2294622 |
| PCB 1260 | U | | 0.00846 | 0.0195 | 1 | 05/30/2024 23:11 | WG2294622 |
| *(S) Decachlorobiphenyl* | *92.6* | | | *10.0-135* | | *05/30/2024 23:11* | WG2294622 |
| *(S) Tetrachloro-m-xylene* | *82.7* | | | *10.0-139* | | *05/30/2024 23:11* | WG2294622 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | 0.0309 | J | 0.00618 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Acenaphthylene | U | | 0.00537 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Anthracene | 0.0287 | J | 0.00680 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Benzidine | U | | 0.0717 | 1.91 | 1 | 05/31/2024 20:19 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 0.342 | | 0.00673 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Benzo(b)fluoranthene | 0.834 | | 0.00712 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Benzo(k)fluoranthene | 0.228 | | 0.00678 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Benzo(g,h,i)perylene | 0.408 | | 0.00698 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Benzo(a)pyrene | 0.534 | | 0.00709 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.0115 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.0126 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | 0.0763 | J | 0.0165 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.0134 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.00670 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.0133 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Chrysene | 0.393 | | 0.00759 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Dibenz(a,h)anthracene | 0.112 | | 0.0106 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.0113 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.0116 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.0114 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.0141 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.0109 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.0125 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Fluoranthene | 0.376 | | 0.00689 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Fluorene | 0.0227 | J | 0.00621 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Hexachlorobenzene | U | | 0.0135 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.0128 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.0201 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Hexachloroethane | U | | 0.0150 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | 0.434 | | 0.0108 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Isophorone | U | | 0.0117 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Naphthalene | 0.176 | | 0.00958 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Nitrobenzene | U | | 0.0133 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.0566 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.0289 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.0127 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Phenanthrene | 0.127 | | 0.00758 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.0119 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0484 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.0131 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Diethyl phthalate | U | | 0.0126 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Dimethyl phthalate | U | | 0.0809 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.0258 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Pyrene | 0.392 | | 0.00743 | 0.0382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.0119 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.0124 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2-Chlorophenol | U | | 0.0126 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.0111 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.00997 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0865 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.0893 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2-Nitrophenol | U | | 0.0136 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 4-Nitrophenol | U | | 0.0119 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Pentachlorophenol | U | | 0.0103 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| Phenol | 0.0376 | J | 0.0154 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.0123 | 0.382 | 1 | 05/31/2024 20:19 | WG2295243 |
| *(S) 2-Fluorophenol* | *63.6* | | | *12.0-120* | | *05/31/2024 20:19* | WG2295243 |
| *(S) Phenol-d5* | *63.1* | | | *10.0-120* | | *05/31/2024 20:19* | WG2295243 |
| *(S) Nitrobenzene-d5* | *53.3* | | | *10.0-122* | | *05/31/2024 20:19* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *65.4* | | | *15.0-120* | | *05/31/2024 20:19* | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) 2,4,6-Tribromophenol* | *39.6* | | | *10.0-127* | | *05/31/2024 20:19* | WG2295243 |
| *(S) p-Terphenyl-d14* | *65.1* | | | *10.0-120* | | *05/31/2024 20:19* | WG2295243 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 86.4 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0208 | 0.0463 | 1 | 05/26/2024 22:29 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.629 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| Arsenic | 2.67 | | 0.599 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| Barium | 143 | | 0.0986 | 0.579 | 1 | 06/01/2024 19:16 | WG2293711 |
| Beryllium | 0.764 | | 0.0365 | 0.231 | 1 | 06/01/2024 19:16 | WG2293711 |
| Cadmium | 0.980 | | 0.0545 | 0.579 | 1 | 06/01/2024 19:16 | WG2293711 |
| Chromium | 81.7 | | 0.154 | 1.16 | 1 | 06/01/2024 19:16 | WG2293711 |
| Cobalt | 1.46 | | 0.0938 | 1.16 | 1 | 06/01/2024 19:16 | WG2293711 |
| Copper | 36.4 | | 0.463 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| Lead | 269 | | 1.20 | 2.89 | 5 | 06/02/2024 11:58 | WG2293711 |
| Molybdenum | 2.58 | | 0.126 | 0.579 | 1 | 06/01/2024 19:16 | WG2293711 |
| Nickel | 11.9 | | 0.153 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| Selenium | 0.997 | J | 0.884 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| Silver | 1.20 | | 0.147 | 1.16 | 1 | 06/01/2024 19:16 | WG2293711 |
| Thallium | U | | 0.456 | 2.31 | 1 | 06/04/2024 10:35 | WG2293711 |
| Vanadium | 12.5 | | 0.586 | 2.31 | 1 | 06/01/2024 19:16 | WG2293711 |
| Zinc | 183 | | 0.963 | 5.79 | 1 | 06/01/2024 19:16 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 3.53 | B | 1.11 | 3.35 | 25 | 06/05/2024 23:53 | WG2299418 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.8* | | | *77.0-120* | | *06/05/2024 23:53* | WG2299418 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0551 | 0.0755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Acrylonitrile | U | | 0.00545 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Benzene | 0.0276 | | 0.000705 | 0.00151 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Bromobenzene | U | | 0.00136 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Bromodichloromethane | U | | 0.00110 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Bromoform | U | | 0.00177 | 0.0378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Bromomethane | U | | 0.00297 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| n-Butylbenzene | U | | 0.00793 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| sec-Butylbenzene | U | | 0.00435 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| tert-Butylbenzene | U | | 0.00294 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Carbon tetrachloride | U | | 0.00136 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Chlorobenzene | U | | 0.000318 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Chlorodibromomethane | U | | 0.000925 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Chloroethane | U | | 0.00257 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Chloroform | U | | 0.00156 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Chloromethane | U | | 0.00657 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 2-Chlorotoluene | U | | 0.00130 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 4-Chlorotoluene | U | | 0.000681 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00589 | 0.0378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2-Dibromoethane | U | | 0.000979 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Dibromomethane | U | | 0.00113 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2-Dichlorobenzene | U | | 0.000642 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,3-Dichlorobenzene | U | | 0.000907 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,4-Dichlorobenzene | U | | 0.00106 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Dichlorodifluoromethane | U | | 0.00243 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,1-Dichloroethane | 0.00128 | J | 0.000741 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2-Dichloroethane | U | | 0.000980 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,1-Dichloroethene | U | | 0.000916 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| cis-1,2-Dichloroethene | U | | 0.00111 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| trans-1,2-Dichloroethene | U | | 0.00158 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2-Dichloropropane | U | | 0.00214 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,1-Dichloropropene | U | | 0.00122 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,3-Dichloropropane | U | | 0.000757 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| cis-1,3-Dichloropropene | U | | 0.00114 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| trans-1,3-Dichloropropene | U | | 0.00172 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 2,2-Dichloropropane | U | | 0.00208 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Di-isopropyl ether | U | | 0.000620 | 0.00151 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Ethylbenzene | 0.0232 | | 0.00111 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Hexachloro-1,3-butadiene | U | | 0.00907 | 0.0378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Isopropylbenzene | 0.0373 | | 0.000642 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| p-Isopropyltoluene | 0.0254 | | 0.00385 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 2-Butanone (MEK) | U | | 0.0959 | 0.151 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Methylene Chloride | U | | 0.0100 | 0.0378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00345 | 0.0378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Methyl tert-butyl ether | U | | 0.000528 | 0.00151 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Naphthalene | 0.0737 | | 0.00737 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| n-Propylbenzene | 0.00763 | | 0.00143 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Styrene | U | | 0.000346 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00143 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00105 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00114 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Tetrachloroethene | 0.00491 | | 0.00136 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Toluene | 0.0816 | | 0.00196 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2,3-Trichlorobenzene | U | | 0.0111 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2,4-Trichlorobenzene | U | | 0.00665 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,1,1-Trichloroethane | U | | 0.00139 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,1,2-Trichloroethane | U | | 0.000901 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Trichloroethene | U | | 0.000882 | 0.00151 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Trichlorofluoromethane | U | | 0.00125 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2,3-Trichloropropane | U | | 0.00245 | 0.0189 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2,4-Trimethylbenzene | 0.0514 | J4 | 0.00239 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,2,3-Trimethylbenzene | 0.0275 | | 0.00239 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| 1,3,5-Trimethylbenzene | 0.0196 | J4 | 0.00302 | 0.00755 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Vinyl chloride | U | | 0.00176 | 0.00378 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| Xylenes, Total | 0.141 | | 0.00133 | 0.00981 | 1.17 | 06/01/2024 11:38 | WG2296712 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *06/01/2024 11:38* | WG2296712 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *67.0-138* | | *06/01/2024 11:38* | WG2296712 |
| *(S) 1,2-Dichloroethane-d4* | *87.3* | | | *70.0-130* | | *06/01/2024 11:38* | WG2296712 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 29.4 | | 0.848 | 4.63 | 1 | 06/06/2024 03:16 | WG2299427 |
| C22-C32 Hydrocarbons | 65.5 | | 1.54 | 4.63 | 1 | 06/06/2024 03:16 | WG2299427 |
| C32-C40 Hydrocarbons | 27.4 | | 1.54 | 4.63 | 1 | 06/06/2024 03:16 | WG2299427 |
| *(S) o-Terphenyl* | *50.3* | | | *18.0-148* | | *06/06/2024 03:16* | WG2299427 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0274 | J | 0.00624 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Acenaphthylene | U | | 0.00543 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Anthracene | 0.0348 | J | 0.00686 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Benzidine | U | | 0.0724 | 1.93 | 1 | 05/31/2024 20:44 | WG2295243 |
| Benzo(a)anthracene | 0.157 | | 0.00679 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Benzo(b)fluoranthene | 0.358 | | 0.00719 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Benzo(k)fluoranthene | 0.107 | | 0.00685 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Benzo(g,h,i)perylene | 0.200 | | 0.00705 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Benzo(a)pyrene | 0.250 | | 0.00716 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.0116 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.0127 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0167 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.0135 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.00677 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.0134 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Chrysene | 0.174 | | 0.00766 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Dibenz(a,h)anthracene | 0.0467 | | 0.0107 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.0114 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.0117 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.0115 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.0142 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.0111 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.0126 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Fluoranthene | 0.190 | | 0.00695 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Fluorene | 0.0258 | J | 0.00627 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Hexachlorobenzene | U | | 0.0137 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.0130 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.0203 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Hexachloroethane | U | | 0.0152 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | 0.218 | | 0.0109 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Isophorone | U | | 0.0118 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Naphthalene | 0.184 | | 0.00967 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Nitrobenzene | U | | 0.0134 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.0572 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.0292 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.0128 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Phenanthrene | 0.105 | | 0.00765 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.0120 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0488 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.0132 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Diethyl phthalate | U | | 0.0127 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Dimethyl phthalate | U | | 0.0817 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.0260 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Pyrene | 0.190 | | 0.00750 | 0.0385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.0120 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.0125 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2-Chlorophenol | U | | 0.0127 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.0112 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0101 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0874 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.0901 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2-Nitrophenol | U | | 0.0138 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 4-Nitrophenol | U | | 0.0120 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Pentachlorophenol | U | | 0.0104 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| Phenol | 0.0509 | J | 0.0155 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.0124 | 0.385 | 1 | 05/31/2024 20:44 | WG2295243 |
| *(S) 2-Fluorophenol* | *49.8* | | | *12.0-120* | | *05/31/2024 20:44* | WG2295243 |
| *(S) Phenol-d5* | *52.1* | | | *10.0-120* | | *05/31/2024 20:44* | WG2295243 |
| *(S) Nitrobenzene-d5* | *49.1* | | | *10.0-122* | | *05/31/2024 20:44* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *58.3* | | | *15.0-120* | | *05/31/2024 20:44* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *47.7* | | | *10.0-127* | | *05/31/2024 20:44* | WG2295243 |
| *(S) p-Terphenyl-d14* | *59.5* | | | *10.0-120* | | *05/31/2024 20:44* | WG2295243 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 84.4 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0240 | J | 0.0213 | 0.0474 | 1 | 05/26/2024 22:32 | WG2293348 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | U | J6 | 0.644 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| Arsenic | 3.17 | | 0.614 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| Barium | 70.4 | O1 | 0.101 | 0.592 | 1 | 06/01/2024 18:32 | WG2293711 |
| Beryllium | 0.379 | | 0.0373 | 0.237 | 1 | 06/01/2024 18:32 | WG2293711 |
| Cadmium | 1.24 | | 0.0558 | 0.592 | 1 | 06/01/2024 18:32 | WG2293711 |
| Chromium | 38.2 | O1 | 0.158 | 1.18 | 1 | 06/01/2024 18:32 | WG2293711 |
| Cobalt | 2.78 | J6 | 0.0961 | 1.18 | 1 | 06/01/2024 18:32 | WG2293711 |
| Copper | 52.9 | J6 O1 | 0.474 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| Lead | 1030 | J3 O1 V | 0.246 | 0.592 | 1 | 06/01/2024 18:32 | WG2293711 |
| Molybdenum | 3.95 | J6 | 0.129 | 0.592 | 1 | 06/01/2024 18:32 | WG2293711 |
| Nickel | 17.1 | J6 O1 | 0.156 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| Selenium | U | | 0.905 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| Silver | 1.18 | J | 0.150 | 1.18 | 1 | 06/01/2024 18:32 | WG2293711 |
| Thallium | U | | 0.467 | 2.37 | 1 | 06/04/2024 10:36 | WG2293711 |
| Vanadium | 12.0 | | 0.599 | 2.37 | 1 | 06/01/2024 18:32 | WG2293711 |
| Zinc | 326 | J5 O1 | 0.986 | 5.92 | 1 | 06/01/2024 18:32 | WG2293711 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 5.55 | B | 1.15 | 3.46 | 25 | 05/29/2024 19:58 | WG2294990 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.7* | | | *77.0-120* | | *05/29/2024 19:58* | WG2294990 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 54.8 | J J3 | 34.7 | 190 | 40 | 05/31/2024 11:11 | WG2295239 |
| C22-C32 Hydrocarbons | 334 | J3 V | 63.0 | 190 | 40 | 05/31/2024 11:11 | WG2295239 |
| C32-C40 Hydrocarbons | 380 | | 63.0 | 190 | 40 | 05/31/2024 11:11 | WG2295239 |
| *(S) o-Terphenyl* | *85.8* | J7 | | *18.0-148* | | *05/31/2024 11:11* | WG2295239 |

**Sample Narrative:**

L1739664-18 WG2295239: Cannot run at lower dilution due to viscosity of extract.

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0638 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Acenaphthylene | U | | 0.0556 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Anthracene | U | | 0.0702 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Benzidine | U | | 0.741 | 19.8 | 10 | 05/31/2024 23:12 | WG2295243 |
| Benzo(a)anthracene | 0.0958 | J | 0.0695 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Benzo(b)fluoranthene | 0.186 | J | 0.0736 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(k)fluoranthene | U | | 0.0701 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Benzo(g,h,i)perylene | 0.0846 | J | 0.0721 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Benzo(a)pyrene | 0.120 | J | 0.0733 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Bis(2-chlorethoxy)methane | U | | 0.118 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Bis(2-chloroethyl)ether | U | | 0.130 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.171 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 4-Bromophenyl-phenylether | U | | 0.139 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2-Chloronaphthalene | U | | 0.0693 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| 4-Chlorophenyl-phenylether | U | | 0.137 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Chrysene | 0.101 | J | 0.0784 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Dibenz(a,h)anthracene | U | | 0.109 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| 1,2-Dichlorobenzene | U | | 0.117 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 1,3-Dichlorobenzene | U | | 0.120 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 1,4-Dichlorobenzene | U | | 0.117 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 3,3-Dichlorobenzidine | U | | 0.146 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2,4-Dinitrotoluene | U | | 0.113 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2,6-Dinitrotoluene | U | | 0.129 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Fluoranthene | 0.180 | J | 0.0712 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Fluorene | U | | 0.0642 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Hexachlorobenzene | U | | 0.140 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Hexachloro-1,3-butadiene | U | | 0.133 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Hexachlorocyclopentadiene | U | | 0.207 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Hexachloroethane | U | | 0.155 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Indeno(1,2,3-cd)pyrene | U | | 0.111 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Isophorone | U | | 0.121 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Naphthalene | 0.520 | | 0.0990 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Nitrobenzene | U | | 0.137 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| n-Nitrosodimethylamine | U | | 0.585 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| n-Nitrosodiphenylamine | U | | 0.298 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| n-Nitrosodi-n-propylamine | U | | 0.131 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Phenanthrene | 0.193 | J | 0.0783 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| Benzylbutyl phthalate | U | | 0.123 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Bis(2-ethylhexyl)phthalate | U | | 0.500 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Di-n-butyl phthalate | U | | 0.135 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Diethyl phthalate | U | | 0.130 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Dimethyl phthalate | U | | 0.836 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Di-n-octyl phthalate | U | | 0.267 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Pyrene | 0.169 | J | 0.0768 | 0.394 | 10 | 05/31/2024 23:12 | WG2295243 |
| 1,2,4-Trichlorobenzene | U | | 0.123 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 4-Chloro-3-methylphenol | U | | 0.128 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2-Chlorophenol | U | | 0.130 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2,4-Dichlorophenol | U | | 0.115 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2,4-Dimethylphenol | U | | 0.103 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 4,6-Dinitro-2-methylphenol | U | | 0.894 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2,4-Dinitrophenol | U | | 0.923 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2-Nitrophenol | U | | 0.141 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 4-Nitrophenol | U | | 0.123 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Pentachlorophenol | U | | 0.106 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| Phenol | 0.993 | J | 0.159 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| 2,4,6-Trichlorophenol | U | | 0.127 | 3.94 | 10 | 05/31/2024 23:12 | WG2295243 |
| *(S) 2-Fluorophenol* | *72.5* | | | *12.0-120* | | *05/31/2024 23:12* | WG2295243 |
| *(S) Phenol-d5* | *67.0* | | | *10.0-120* | | *05/31/2024 23:12* | WG2295243 |
| *(S) Nitrobenzene-d5* | *47.8* | | | *10.0-122* | | *05/31/2024 23:12* | WG2295243 |
| *(S) 2-Fluorobiphenyl* | *64.5* | | | *15.0-120* | | *05/31/2024 23:12* | WG2295243 |
| *(S) 2,4,6-Tribromophenol* | *62.0* | | | *10.0-127* | | *05/31/2024 23:12* | WG2295243 |
| *(S) p-Terphenyl-d14* | *59.6* | | | *10.0-120* | | *05/31/2024 23:12* | WG2295243 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

**Sample Narrative:**

L1739664-18 WG2295243: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.0 | | 1 | 06/06/2024 09:58 | WG2299600 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Lead | 5290 | | 0.236 | 0.568 | 1 | 07/01/2024 20:07 | WG2315127 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 6.00 | B T8 | 1.07 | 3.22 | 25 | 06/06/2024 00:12 | WG2299418 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.6* | | | *77.0-120* | | *06/06/2024 00:12* | WG2299418 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 130 | J | 83.3 | 455 | 100 | 06/06/2024 10:29 | WG2299427 |
| C22-C32 Hydrocarbons | 1080 | | 151 | 455 | 100 | 06/06/2024 10:29 | WG2299427 |
| C32-C40 Hydrocarbons | 1310 | | 151 | 455 | 100 | 06/06/2024 10:29 | WG2299427 |
| *(S) o-Terphenyl* | *82.6* | J7 | | *18.0-148* | | *06/06/2024 10:29* | WG2299427 |

**Sample Narrative:**

L1739664-19 WG2299427: Cannot run at lower dilution due to viscosity of extract

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.3 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.01 | B J | 1.38 | 4.15 | 25 | 05/28/2024 13:34 | WG2294179 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.7* | | | *77.0-120* | | *05/28/2024 13:34* | WG2294179 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0618 | 0.0847 | 1 | 05/31/2024 12:45 | WG2294587 |
| Acrylonitrile | U | | 0.00611 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| Benzene | 0.00173 | | 0.000791 | 0.00169 | 1 | 05/31/2024 12:45 | WG2294587 |
| Bromobenzene | U | | 0.00152 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| Bromodichloromethane | U | | 0.00123 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Bromoform | U | | 0.00198 | 0.0423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Bromomethane | U | J3 | 0.00334 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| n-Butylbenzene | U | | 0.00889 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| sec-Butylbenzene | U | | 0.00488 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| tert-Butylbenzene | U | | 0.00330 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| Carbon tetrachloride | U | | 0.00152 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| Chlorobenzene | U | | 0.000356 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Chlorodibromomethane | U | | 0.00104 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Chloroethane | U | | 0.00288 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| Chloroform | U | | 0.00174 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Chloromethane | U | | 0.00737 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00147 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000762 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00661 | 0.0423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.00110 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Dibromomethane | U | | 0.00127 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2-Dichlorobenzene | U | | 0.000720 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.00102 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,4-Dichlorobenzene | U | | 0.00119 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| Dichlorodifluoromethane | U | J3 | 0.00273 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,1-Dichloroethane | 0.00859 | | 0.000832 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.00110 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.00103 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| cis-1,2-Dichloroethene | 0.0159 | | 0.00124 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| trans-1,2-Dichloroethene | 0.00195 | J | 0.00176 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00241 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00137 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000849 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.00128 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00193 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00234 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Di-isopropyl ether | U | | 0.000694 | 0.00169 | 1 | 05/31/2024 12:45 | WG2294587 |
| Ethylbenzene | U | | 0.00125 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.0102 | 0.0423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Isopropylbenzene | 0.0357 | | 0.000720 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| p-Isopropyltoluene | U | | 0.00432 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.108 | 0.169 | 1 | 05/31/2024 12:45 | WG2294587 |
| Methylene Chloride | 0.0162 | J | 0.0112 | 0.0423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00386 | 0.0423 | 1 | 05/31/2024 12:45 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000593 | 0.00169 | 1 | 05/31/2024 12:45 | WG2294587 |
| Naphthalene | U | | 0.00827 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| n-Propylbenzene | U | | 0.00161 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| Styrene | U | | 0.000388 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00161 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00118 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00128 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Tetrachloroethene | U | | 0.00152 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Toluene | U | | 0.00220 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.0124 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00745 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,1,1-Trichloroethane | U | | 0.00156 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.00101 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Trichloroethene | 0.00644 | | 0.000989 | 0.00169 | 1 | 05/31/2024 12:45 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00140 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00274 | 0.0212 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2,4-Trimethylbenzene | U | | 0.00268 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,2,3-Trimethylbenzene | U | | 0.00268 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| 1,3,5-Trimethylbenzene | U | | 0.00339 | 0.00847 | 1 | 05/31/2024 12:45 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00196 | 0.00423 | 1 | 05/31/2024 12:45 | WG2294587 |
| Xylenes, Total | 0.00254 | J | 0.00149 | 0.0110 | 1 | 05/31/2024 12:45 | WG2294587 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *05/31/2024 12:45* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/31/2024 12:45* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *93.0* | | | *70.0-130* | | *05/31/2024 12:45* | WG2294587 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.948 | 5.17 | 1 | 05/30/2024 16:47 | WG2295239 |
| C22-C32 Hydrocarbons | U | | 1.72 | 5.17 | 1 | 05/30/2024 16:47 | WG2295239 |
| C32-C40 Hydrocarbons | U | | 1.72 | 5.17 | 1 | 05/30/2024 16:47 | WG2295239 |
| *(S) o-Terphenyl* | *30.5* | | | *18.0-148* | | *05/30/2024 16:47* | WG2295239 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.8 | | 1 | 05/27/2024 08:34 | WG2293519 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0556 | 0.0762 | 1 | 05/31/2024 13:04 | WG2294587 |
| Acrylonitrile | U | | 0.00550 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| Benzene | U | | 0.000712 | 0.00152 | 1 | 05/31/2024 13:04 | WG2294587 |
| Bromobenzene | U | | 0.00137 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| Bromodichloromethane | U | | 0.00110 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Bromoform | U | | 0.00178 | 0.0381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Bromomethane | U | J3 | 0.00300 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| n-Butylbenzene | U | | 0.00800 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| sec-Butylbenzene | U | | 0.00439 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| tert-Butylbenzene | U | | 0.00297 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| Carbon tetrachloride | U | | 0.00137 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| Chlorobenzene | U | | 0.000320 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Chlorodibromomethane | U | | 0.000933 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Chloroethane | U | | 0.00259 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| Chloroform | U | | 0.00157 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Chloromethane | U | | 0.00663 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000686 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00594 | 0.0381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.000987 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Dibromomethane | U | | 0.00114 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2-Dichlorobenzene | U | | 0.000648 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.000914 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| Dichlorodifluoromethane | U | J3 | 0.00245 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,1-Dichloroethane | U | | 0.000748 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.000989 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.000923 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| trans-1,2-Dichloroethene | U | | 0.00158 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00216 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00123 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000763 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.00115 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00174 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00210 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Di-isopropyl ether | U | | 0.000625 | 0.00152 | 1 | 05/31/2024 13:04 | WG2294587 |
| Ethylbenzene | U | | 0.00112 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00914 | 0.0381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Isopropylbenzene | U | | 0.000648 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| p-Isopropyltoluene | U | | 0.00389 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.0968 | 0.152 | 1 | 05/31/2024 13:04 | WG2294587 |
| Methylene Chloride | U | | 0.0101 | 0.0381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00347 | 0.0381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Methyl tert-butyl ether | U | | 0.000533 | 0.00152 | 1 | 05/31/2024 13:04 | WG2294587 |
| Naphthalene | U | | 0.00744 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| n-Propylbenzene | U | | 0.00145 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| Styrene | U | | 0.000349 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00144 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Tetrachloroethene | U | | 0.00137 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Toluene | U | | 0.00198 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00671 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.000910 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Trichloroethene | 0.00149 | J | 0.000890 | 0.00152 | 1 | 05/31/2024 13:04 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00247 | 0.0190 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2,4-Trimethylbenzene | U | | 0.00241 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,2,3-Trimethylbenzene | U | | 0.00241 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| 1,3,5-Trimethylbenzene | U | | 0.00305 | 0.00762 | 1 | 05/31/2024 13:04 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00177 | 0.00381 | 1 | 05/31/2024 13:04 | WG2294587 |
| Xylenes, Total | U | | 0.00134 | 0.00991 | 1 | 05/31/2024 13:04 | WG2294587 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *05/31/2024 13:04* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/31/2024 13:04* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *90.8* | | | *70.0-130* | | *05/31/2024 13:04* | WG2294587 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.9 | | 1 | 05/27/2024 08:34 | WG2293519 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.31 | B J | 1.20 | 3.61 | 25 | 05/28/2024 13:53 | WG2294179 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.1* | | | *77.0-120* | | *05/28/2024 13:53* | WG2294179 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0526 | 0.0720 | 1 | 05/31/2024 14:20 | WG2294587 |
| Acrylonitrile | U | | 0.00520 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| Benzene | U | | 0.000673 | 0.00144 | 1 | 05/31/2024 14:20 | WG2294587 |
| Bromobenzene | U | | 0.00130 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| Bromodichloromethane | U | | 0.00104 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Bromoform | U | | 0.00169 | 0.0360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Bromomethane | U | J3 | 0.00284 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| n-Butylbenzene | U | | 0.00756 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| sec-Butylbenzene | U | | 0.00415 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| tert-Butylbenzene | U | | 0.00281 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| Carbon tetrachloride | U | | 0.00129 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| Chlorobenzene | U | | 0.000302 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Chlorodibromomethane | U | | 0.000881 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Chloroethane | U | | 0.00245 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| Chloroform | U | | 0.00148 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Chloromethane | U | | 0.00627 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| 2-Chlorotoluene | U | | 0.00125 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 4-Chlorotoluene | U | | 0.000648 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00562 | 0.0360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2-Dibromoethane | U | | 0.000933 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Dibromomethane | U | | 0.00108 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2-Dichlorobenzene | U | | 0.000612 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,3-Dichlorobenzene | U | | 0.000864 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,4-Dichlorobenzene | U | | 0.00101 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| Dichlorodifluoromethane | U | J3 | 0.00232 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,1-Dichloroethane | U | | 0.000707 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2-Dichloroethane | U | | 0.000935 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,1-Dichloroethene | U | | 0.000873 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| cis-1,2-Dichloroethene | U | | 0.00106 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| trans-1,2-Dichloroethene | U | | 0.00150 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2-Dichloropropane | U | | 0.00205 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,1-Dichloropropene | U | | 0.00117 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,3-Dichloropropane | U | | 0.000722 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| cis-1,3-Dichloropropene | U | | 0.00109 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| trans-1,3-Dichloropropene | U | | 0.00164 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 2,2-Dichloropropane | U | | 0.00199 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Di-isopropyl ether | U | | 0.000591 | 0.00144 | 1 | 05/31/2024 14:20 | WG2294587 |
| Ethylbenzene | U | | 0.00106 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Hexachloro-1,3-butadiene | U | J3 | 0.00864 | 0.0360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Isopropylbenzene | U | | 0.000612 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| p-Isopropyltoluene | U | | 0.00367 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 2-Butanone (MEK) | U | | 0.0915 | 0.144 | 1 | 05/31/2024 14:20 | WG2294587 |
| Methylene Chloride | U | | 0.00956 | 0.0360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00328 | 0.0360 | 1 | 05/31/2024 14:20 | WG2294587 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000504 | 0.00144 | 1 | 05/31/2024 14:20 | WG2294587 |
| Naphthalene | U | | 0.00703 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| n-Propylbenzene | U | | 0.00137 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| Styrene | U | | 0.000330 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00137 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00100 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00109 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Tetrachloroethene | 0.00612 | | 0.00129 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Toluene | U | | 0.00187 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2,3-Trichlorobenzene | U | | 0.0106 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2,4-Trichlorobenzene | U | | 0.00634 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,1,1-Trichloroethane | U | | 0.00133 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,1,2-Trichloroethane | U | | 0.000860 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Trichloroethene | 0.00307 | | 0.000841 | 0.00144 | 1 | 05/31/2024 14:20 | WG2294587 |
| Trichlorofluoromethane | U | | 0.00119 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2,3-Trichloropropane | U | | 0.00233 | 0.0180 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2,4-Trimethylbenzene | U | | 0.00228 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,2,3-Trimethylbenzene | U | | 0.00228 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| 1,3,5-Trimethylbenzene | U | | 0.00288 | 0.00720 | 1 | 05/31/2024 14:20 | WG2294587 |
| Vinyl chloride | U | J3 | 0.00167 | 0.00360 | 1 | 05/31/2024 14:20 | WG2294587 |
| Xylenes, Total | U | | 0.00127 | 0.00936 | 1 | 05/31/2024 14:20 | WG2294587 |
| *(S) Toluene-d8* | *99.7* | | | *75.0-131* | | *05/31/2024 14:20* | WG2294587 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/31/2024 14:20* | WG2294587 |
| *(S) 1,2-Dichloroethane-d4* | *94.3* | | | *70.0-130* | | *05/31/2024 14:20* | WG2294587 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.874 | 4.77 | 1 | 05/30/2024 17:01 | WG2295239 |
| C22-C32 Hydrocarbons | U | | 1.59 | 4.77 | 1 | 05/30/2024 17:01 | WG2295239 |
| C32-C40 Hydrocarbons | U | | 1.59 | 4.77 | 1 | 05/30/2024 17:01 | WG2295239 |
| *(S) o-Terphenyl* | *51.1* | | | *18.0-148* | | *05/30/2024 17:01* | WG2295239 |

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.7 | | 1 | 05/27/2024 08:50 | WG2293520 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.34 | B J | 1.34 | 4.03 | 25 | 05/28/2024 14:13 | WG2294179 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.1* | | | *77.0-120* | | *05/28/2024 14:13* | WG2294179 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0588 | 0.0806 | 1 | 05/29/2024 04:17 | WG2294590 |
| Acrylonitrile | U | | 0.00582 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| Benzene | U | | 0.000753 | 0.00161 | 1 | 05/29/2024 04:17 | WG2294590 |
| Bromobenzene | U | | 0.00145 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| Bromodichloromethane | U | | 0.00117 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Bromoform | U | | 0.00189 | 0.0403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Bromomethane | U | | 0.00318 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| n-Butylbenzene | U | | 0.00846 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| sec-Butylbenzene | U | | 0.00464 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| tert-Butylbenzene | U | | 0.00314 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| Carbon tetrachloride | U | | 0.00145 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| Chlorobenzene | U | | 0.000339 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Chlorodibromomethane | U | | 0.000987 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Chloroethane | U | | 0.00274 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| Chloroform | U | | 0.00166 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Chloromethane | U | | 0.00701 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| 2-Chlorotoluene | U | | 0.00139 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 4-Chlorotoluene | U | | 0.000726 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00629 | 0.0403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2-Dibromoethane | U | | 0.00104 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Dibromomethane | U | | 0.00121 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2-Dichlorobenzene | U | | 0.000685 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,3-Dichlorobenzene | U | | 0.000967 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,4-Dichlorobenzene | U | | 0.00113 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| Dichlorodifluoromethane | U | | 0.00260 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,1-Dichloroethane | U | | 0.000792 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2-Dichloroethane | U | | 0.00105 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,1-Dichloroethene | U | | 0.000977 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| cis-1,2-Dichloroethene | U | | 0.00118 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| trans-1,2-Dichloroethene | U | | 0.00168 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2-Dichloropropane | U | | 0.00229 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,1-Dichloropropene | U | | 0.00130 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,3-Dichloropropane | U | | 0.000808 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| cis-1,3-Dichloropropene | U | | 0.00122 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| trans-1,3-Dichloropropene | U | | 0.00184 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 2,2-Dichloropropane | U | | 0.00222 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Di-isopropyl ether | U | | 0.000661 | 0.00161 | 1 | 05/29/2024 04:17 | WG2294590 |
| Ethylbenzene | U | | 0.00119 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Hexachloro-1,3-butadiene | U | | 0.00967 | 0.0403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Isopropylbenzene | U | | 0.000685 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| p-Isopropyltoluene | U | | 0.00411 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 2-Butanone (MEK) | U | | 0.102 | 0.161 | 1 | 05/29/2024 04:17 | WG2294590 |
| Methylene Chloride | U | | 0.0107 | 0.0403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00368 | 0.0403 | 1 | 05/29/2024 04:17 | WG2294590 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000564 | 0.00161 | 1 | 05/29/2024 04:17 | WG2294590 |
| Naphthalene | U | | 0.00787 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| n-Propylbenzene | U | | 0.00153 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| Styrene | U | | 0.000369 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00153 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00112 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00122 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Tetrachloroethene | U | | 0.00144 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Toluene | U | | 0.00210 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2,3-Trichlorobenzene | U | | 0.0118 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2,4-Trichlorobenzene | U | | 0.00709 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,1,1-Trichloroethane | U | | 0.00149 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,1,2-Trichloroethane | U | | 0.000963 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Trichloroethene | U | | 0.000942 | 0.00161 | 1 | 05/29/2024 04:17 | WG2294590 |
| Trichlorofluoromethane | U | | 0.00133 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2,3-Trichloropropane | U | | 0.00261 | 0.0202 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2,4-Trimethylbenzene | U | | 0.00255 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,2,3-Trimethylbenzene | U | | 0.00255 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| 1,3,5-Trimethylbenzene | U | | 0.00322 | 0.00806 | 1 | 05/29/2024 04:17 | WG2294590 |
| Vinyl chloride | U | | 0.00187 | 0.00403 | 1 | 05/29/2024 04:17 | WG2294590 |
| Xylenes, Total | U | | 0.00142 | 0.0105 | 1 | 05/29/2024 04:17 | WG2294590 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *05/29/2024 04:17* | WG2294590 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/29/2024 04:17* | WG2294590 |
| *(S) 1,2-Dichloroethane-d4* | *86.1* | | | *70.0-130* | | *05/29/2024 04:17* | WG2294590 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.931 | 5.08 | 1 | 05/30/2024 17:15 | WG2295239 |
| C22-C32 Hydrocarbons | U | | 1.69 | 5.08 | 1 | 05/30/2024 17:15 | WG2295239 |
| C32-C40 Hydrocarbons | U | | 1.69 | 5.08 | 1 | 05/30/2024 17:15 | WG2295239 |
| *(S) o-Terphenyl* | *43.3* | | | *18.0-148* | | *05/30/2024 17:15* | WG2295239 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.5 | | 1 | 05/27/2024 08:50 | WG2293520 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.32 | 3.99 | 25 | 05/28/2024 14:32 | WG2294179 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.2* | | | *77.0-120* | | *05/28/2024 14:32* | WG2294179 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0582 | 0.0797 | 1 | 05/29/2024 04:36 | WG2294590 |
| Acrylonitrile | U | | 0.00575 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| Benzene | U | | 0.000744 | 0.00159 | 1 | 05/29/2024 04:36 | WG2294590 |
| Bromobenzene | U | | 0.00143 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| Bromodichloromethane | U | | 0.00116 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Bromoform | U | | 0.00187 | 0.0399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Bromomethane | U | | 0.00314 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| n-Butylbenzene | U | | 0.00837 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| sec-Butylbenzene | U | | 0.00459 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| tert-Butylbenzene | U | | 0.00311 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| Carbon tetrachloride | U | | 0.00143 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| Chlorobenzene | U | | 0.000335 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Chlorodibromomethane | U | | 0.000976 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Chloroethane | U | | 0.00271 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| Chloroform | U | | 0.00164 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Chloromethane | U | | 0.00693 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| 2-Chlorotoluene | U | | 0.00138 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 4-Chlorotoluene | U | | 0.000717 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00622 | 0.0399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2-Dibromoethane | U | | 0.00103 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Dibromomethane | U | | 0.00120 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2-Dichlorobenzene | U | | 0.000678 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,3-Dichlorobenzene | U | | 0.000956 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,4-Dichlorobenzene | U | | 0.00112 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| Dichlorodifluoromethane | U | | 0.00257 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,1-Dichloroethane | U | | 0.000783 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2-Dichloroethane | U | | 0.00103 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,1-Dichloroethene | 0.0274 | | 0.000966 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| cis-1,2-Dichloroethene | U | | 0.00117 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| trans-1,2-Dichloroethene | U | | 0.00166 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2-Dichloropropane | U | | 0.00226 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,1-Dichloropropene | U | | 0.00129 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,3-Dichloropropane | U | | 0.000799 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| cis-1,3-Dichloropropene | U | | 0.00121 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| trans-1,3-Dichloropropene | U | | 0.00182 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 2,2-Dichloropropane | U | | 0.00220 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Di-isopropyl ether | U | | 0.000654 | 0.00159 | 1 | 05/29/2024 04:36 | WG2294590 |
| Ethylbenzene | U | | 0.00117 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Hexachloro-1,3-butadiene | U | | 0.00956 | 0.0399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Isopropylbenzene | U | | 0.000678 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| p-Isopropyltoluene | U | | 0.00407 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 2-Butanone (MEK) | U | | 0.101 | 0.159 | 1 | 05/29/2024 04:36 | WG2294590 |
| Methylene Chloride | U | | 0.0106 | 0.0399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00363 | 0.0399 | 1 | 05/29/2024 04:36 | WG2294590 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000558 | 0.00159 | 1 | 05/29/2024 04:36 | WG2294590 |
| Naphthalene | U | | 0.00778 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| n-Propylbenzene | U | | 0.00151 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| Styrene | U | | 0.000365 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00151 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00111 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00120 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Tetrachloroethene | U | | 0.00143 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Toluene | U | | 0.00207 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2,3-Trichlorobenzene | U | | 0.0117 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2,4-Trichlorobenzene | U | | 0.00701 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,1,1-Trichloroethane | U | | 0.00147 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,1,2-Trichloroethane | U | | 0.000952 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Trichloroethene | U | | 0.000931 | 0.00159 | 1 | 05/29/2024 04:36 | WG2294590 |
| Trichlorofluoromethane | U | | 0.00132 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2,3-Trichloropropane | U | | 0.00258 | 0.0199 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2,4-Trimethylbenzene | U | | 0.00252 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,2,3-Trimethylbenzene | U | | 0.00252 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| 1,3,5-Trimethylbenzene | U | | 0.00319 | 0.00797 | 1 | 05/29/2024 04:36 | WG2294590 |
| Vinyl chloride | U | | 0.00185 | 0.00399 | 1 | 05/29/2024 04:36 | WG2294590 |
| Xylenes, Total | U | | 0.00140 | 0.0104 | 1 | 05/29/2024 04:36 | WG2294590 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *05/29/2024 04:36* | WG2294590 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *05/29/2024 04:36* | WG2294590 |
| *(S) 1,2-Dichloroethane-d4* | *87.2* | | | *70.0-130* | | *05/29/2024 04:36* | WG2294590 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.922 | 5.03 | 1 | 05/30/2024 17:28 | WG2295239 |
| C22-C32 Hydrocarbons | U | | 1.67 | 5.03 | 1 | 05/30/2024 17:28 | WG2295239 |
| C32-C40 Hydrocarbons | U | | 1.67 | 5.03 | 1 | 05/30/2024 17:28 | WG2295239 |
| *(S) o-Terphenyl* | *43.0* | | | *18.0-148* | | *05/30/2024 17:28* | WG2295239 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/27/2024 12:23 | WG2293040 |
| Mercury,Dissolved | U | J6 | 0.100 | 0.200 | 1 | 05/26/2024 16:51 | WG2293143 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 74.8 | | 0.736 | 5.00 | 1 | 05/31/2024 12:12 | WG2295517 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 05/31/2024 12:12 | WG2295517 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 05/31/2024 12:12 | WG2295517 |
| Cobalt,Dissolved | 4.42 | J | 0.840 | 10.0 | 1 | 05/31/2024 12:12 | WG2295517 |
| Molybdenum,Dissolved | 75.6 | | 1.16 | 5.00 | 1 | 05/31/2024 12:12 | WG2295517 |
| Vanadium,Dissolved | 5.80 | J | 4.99 | 20.0 | 1 | 05/31/2024 12:12 | WG2295517 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Arsenic | 2.24 | | 0.180 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Arsenic,Dissolved | 2.13 | | 0.180 | 2.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Barium | 215 | | 0.381 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Beryllium | 0.377 | J | 0.190 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Cadmium | 0.318 | J | 0.150 | 1.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Chromium | 17.8 | | 1.24 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Copper | 30.7 | | 1.51 | 5.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Copper,Dissolved | 5.65 | | 1.51 | 5.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Cobalt | 12.5 | | 0.0596 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Lead | 8.18 | | 0.849 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Molybdenum | 23.0 | | 0.348 | 5.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Nickel | 85.9 | | 0.816 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Nickel,Dissolved | 43.3 | | 0.816 | 2.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Selenium | U | | 0.300 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Silver | U | | 0.0700 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Thallium | U | | 0.121 | 2.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/06/2024 10:28 | WG2296345 |
| Vanadium | 24.4 | | 0.664 | 5.00 | 1 | 05/31/2024 16:06 | WG2295552 |
| Zinc | 49.2 | | 3.02 | 25.0 | 1 | 05/31/2024 16:06 | WG2295552 |
| Zinc,Dissolved | 3.44 | J | 3.02 | 25.0 | 1 | 06/06/2024 10:28 | WG2296345 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 110 | B | 30.4 | 100 | 1 | 05/27/2024 04:52 | WG2293775 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.2* | | | *78.0-120* | | *05/27/2024 04:52* | WG2293775 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 05/30/2024 02:13 | WG2295186 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/30/2024 02:13 | WG2295186 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/30/2024 02:13 | WG2295186 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/30/2024 02:13 | WG2295186 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| cis-1,2-Dichloroethene | 0.492 | J | 0.126 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/30/2024 02:13 | WG2295186 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/30/2024 02:13 | WG2295186 |
| Methyl tert-butyl ether | 0.916 | J | 0.101 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Trichloroethene | 0.301 | J | 0.190 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/30/2024 02:13 | WG2295186 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *05/30/2024 02:13* | WG2295186 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *77.0-126* | | *05/30/2024 02:13* | WG2295186 |
| *(S) 1,2-Dichloroethane-d4* | *119* | | | *70.0-130* | | *05/30/2024 02:13* | WG2295186 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 467 | | 33.0 | 100 | 1 | 06/02/2024 09:50 | WG2296326 |
| C22-C32 Hydrocarbons | 610 | | 33.0 | 100 | 1 | 06/02/2024 09:50 | WG2296326 |
| C32-C40 Hydrocarbons | 268 | | 33.0 | 100 | 1 | 06/02/2024 09:50 | WG2296326 |
| *(S) o-Terphenyl* | *68.4* | | | *52.0-156* | | *06/02/2024 09:50* | WG2296326 |

## Method Blank (MB)

(MB) R4073968-1 05/24/24 15:10

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

## L1739705-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1739705-02 05/24/24 15:10 • (DUP) R4073968-3 05/24/24 15:10

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 96.7 | 97.3 | 1 | 0.570 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4073968-2 05/24/24 15:10

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739664-01,02,03,05

## Method Blank (MB)

(MB) R4074377-1 05/27/24 07:35

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

## L1738627-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1738627-31 05/27/24 07:35 • (DUP) R4074377-3 05/27/24 07:35

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 85.7 | 87.1 | 1 | 1.65 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074377-2 05/27/24 07:35

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739664-07,08,09,11,16,17,18,20,22,23

## Method Blank (MB)

(MB) R4074390-1 05/27/24 08:34

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

## L1739664-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1739664-11 05/27/24 08:34 • (DUP) R4074390-3 05/27/24 08:34

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 95.0 | 94.7 | 1 | 0.298 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074390-2 05/27/24 08:34

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4074391-1 05/27/24 08:50

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

## L1739865-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1739865-11 05/27/24 08:50 • (DUP) R4074391-3 05/27/24 08:50

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.3 | 84.8 | 1 | 0.548 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074391-2 05/27/24 08:50

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739664-04,10,19

## Method Blank (MB)

(MB) R4078452-1 06/06/24 09:58

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00400 | | | |

## L1739664-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1739664-10 06/06/24 09:58 • (DUP) R4078452-3 06/06/24 09:58

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 93.8 | 92.0 | 1 | 1.93 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4078452-2 06/06/24 09:58

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1739664-14

## Method Blank (MB)

(MB) R4074340-1 05/27/24 14:20

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4074340-2 05/27/24 14:27

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 2.93 | 97.8 | 80.0-120 | |

## L1739203-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739203-01 05/27/24 14:30 • (MS) R4074340-4 05/27/24 14:34 • (MSD) R4074340-5 05/27/24 14:37

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 2.70 | 2.79 | 89.9 | 93.0 | 1 | 75.0-125 | | | 3.33 | 20 |

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

# QUALITY CONTROL SUMMARY

L1739664-28

## Method Blank (MB)

(MB) R4074302-1 05/27/24 12:09

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4074302-2 05/27/24 12:11

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 2.96 | 98.7 | 80.0-120 | |

## L1739693-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739693-08 05/27/24 12:14 • (MS) R4074302-4 05/27/24 12:18 • (MSD) R4074302-5 05/27/24 12:21

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 2.89 | 2.95 | 96.2 | 98.3 | 1 | 75.0-125 | | | 2.20 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-28

## Method Blank (MB)

(MB) R4074158-1 05/26/24 16:46

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury,Dissolved | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4074158-2 05/26/24 16:49

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | 3.30 | 110 | 80.0-120 | |

## L1739664-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739664-28 05/26/24 16:51 • (MS) R4074158-4 05/26/24 16:56 • (MSD) R4074158-5 05/26/24 17:03

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | U | 2.20 | 2.29 | 73.2 | 76.5 | 1 | 75.0-125 | J6 | | 4.37 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-01,02,03,07,08,09,16,17,18

## Method Blank (MB)

(MB) R4074249-1 05/26/24 21:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4074249-2 05/26/24 21:52

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.495 | 98.9 | 80.0-120 | |

## L1739687-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739687-26 05/26/24 21:55 • (MS) R4074249-4 05/26/24 22:00 • (MSD) R4074249-5 05/26/24 22:02

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | U | 0.478 | 0.434 | 95.6 | 86.8 | 1 | 75.0-125 | | | 9.69 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-04

## Method Blank (MB)

(MB) R4078912-1 06/07/24 16:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4078912-2 06/07/24 16:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.474 | 94.8 | 80.0-120 | |

## L1742846-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742846-15 06/07/24 16:45 • (MS) R4078912-4 06/07/24 16:50 • (MSD) R4078912-5 06/07/24 16:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.658 | U | 0.632 | 0.640 | 96.0 | 97.3 | 1 | 75.0-125 | | | 1.32 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-02,03,07,08,09,16,17,18

## Method Blank (MB)

(MB) R4076238-1 06/01/24 18:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | 0.113 | J | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4076238-2 06/01/24 18:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 102 | 102 | 80.0-120 | |
| Arsenic | 100 | 107 | 107 | 80.0-120 | |
| Barium | 100 | 107 | 107 | 80.0-120 | |
| Beryllium | 100 | 105 | 105 | 80.0-120 | |
| Cadmium | 100 | 104 | 104 | 80.0-120 | |
| Chromium | 100 | 109 | 109 | 80.0-120 | |
| Cobalt | 100 | 100 | 100 | 80.0-120 | |
| Copper | 100 | 108 | 108 | 80.0-120 | |
| Lead | 100 | 103 | 103 | 80.0-120 | |
| Molybdenum | 100 | 107 | 107 | 80.0-120 | |
| Nickel | 100 | 105 | 105 | 80.0-120 | |
| Selenium | 100 | 101 | 101 | 80.0-120 | |
| Silver | 20.0 | 19.4 | 97.0 | 80.0-120 | |
| Thallium | 100 | 105 | 105 | 80.0-120 | |
| Vanadium | 100 | 103 | 103 | 80.0-120 | |
| Zinc | 100 | 104 | 104 | 80.0-120 | |

## L1739664-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739664-18 06/01/24 18:32 • (MS) R4076238-5 06/01/24 18:37 • (MSD) R4076238-6 06/01/24 18:38

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 118 | U | 72.2 | 82.9 | 60.9 | 70.0 | 1 | 75.0-125 | J6 | J6 | 13.9 | 20 |
| Arsenic | 118 | 3.17 | 98.8 | 112 | 80.7 | 92.2 | 1 | 75.0-125 | | | 12.9 | 20 |
| Barium | 118 | 70.4 | 165 | 196 | 79.5 | 106 | 1 | 75.0-125 | | | 17.6 | 20 |
| Beryllium | 118 | 0.379 | 93.0 | 108 | 78.2 | 91.0 | 1 | 75.0-125 | | | 15.1 | 20 |
| Cadmium | 118 | 1.24 | 97.0 | 108 | 80.8 | 90.1 | 1 | 75.0-125 | | | 10.7 | 20 |
| Chromium | 118 | 38.2 | 137 | 144 | 83.8 | 89.8 | 1 | 75.0-125 | | | 5.02 | 20 |
| Cobalt | 118 | 2.78 | 90.8 | 108 | 74.3 | 88.9 | 1 | 75.0-125 | J6 | | 17.3 | 20 |
| Copper | 118 | 52.9 | 128 | 145 | 63.7 | 78.0 | 1 | 75.0-125 | J6 | | 12.4 | 20 |
| Lead | 118 | 1030 | 1260 | 968 | 196 | 0.000 | 1 | 75.0-125 | V | J3 V | 26.1 | 20 |
| Molybdenum | 118 | 3.95 | 92.6 | 105 | 74.9 | 85.4 | 1 | 75.0-125 | J6 | | 12.6 | 20 |
| Nickel | 118 | 17.1 | 103 | 122 | 72.3 | 88.4 | 1 | 75.0-125 | J6 | | 16.9 | 20 |
| Selenium | 118 | U | 92.0 | 104 | 77.7 | 88.1 | 1 | 75.0-125 | | | 12.6 | 20 |
| Silver | 23.7 | 1.18 | 20.1 | 21.6 | 79.7 | 86.1 | 1 | 75.0-125 | | | 7.30 | 20 |
| Thallium | 118 | 2.44 | 97.1 | 106 | 79.9 | 87.5 | 1 | 75.0-125 | | | 8.85 | 20 |
| Vanadium | 118 | 12.0 | 101 | 118 | 75.1 | 89.1 | 1 | 75.0-125 | | | 15.2 | 20 |
| Zinc | 118 | 326 | 590 | 488 | 223 | 137 | 1 | 75.0-125 | J5 | J5 | 18.9 | 20 |

## Method Blank (MB)

(MB) R4077339-1 06/04/24 23:22

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | 0.146 | J | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077339-2 06/04/24 23:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 92.9 | 92.9 | 80.0-120 | |
| Arsenic | 100 | 91.6 | 91.6 | 80.0-120 | |
| Barium | 100 | 94.7 | 94.7 | 80.0-120 | |
| Beryllium | 100 | 91.7 | 91.7 | 80.0-120 | |
| Cadmium | 100 | 89.4 | 89.4 | 80.0-120 | |
| Chromium | 100 | 96.2 | 96.2 | 80.0-120 | |
| Cobalt | 100 | 91.0 | 91.0 | 80.0-120 | |
| Copper | 100 | 92.7 | 92.7 | 80.0-120 | |
| Lead | 100 | 94.8 | 94.8 | 80.0-120 | |
| Molybdenum | 100 | 95.5 | 95.5 | 80.0-120 | |
| Nickel | 100 | 89.2 | 89.2 | 80.0-120 | |
| Selenium | 100 | 89.6 | 89.6 | 80.0-120 | |
| Silver | 20.0 | 18.8 | 93.9 | 80.0-120 | |
| Thallium | 100 | 94.5 | 94.5 | 80.0-120 | |
| Vanadium | 100 | 90.7 | 90.7 | 80.0-120 | |
| Zinc | 100 | 93.6 | 93.6 | 80.0-120 | |

## L1742687-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742687-01 06/04/24 23:26 • (MS) R4077339-5 06/04/24 23:31 • (MSD) R4077339-6 06/04/24 23:32

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 100 | 8.35 | 85.1 | 84.3 | 76.8 | 76.0 | 1 | 75.0-125 | | | 0.957 | 20 |
| Arsenic | 100 | 101 | 222 | 112 | 120 | 10.6 | 1 | 75.0-125 | | J3 J6 | 65.8 | 20 |
| Barium | 100 | 34.5 | 148 | 140 | 113 | 105 | 1 | 75.0-125 | | | 5.58 | 20 |
| Beryllium | 100 | 3.97 | 101 | 104 | 96.7 | 100 | 1 | 75.0-125 | | | 3.40 | 20 |
| Cadmium | 100 | U | 98.9 | 101 | 98.9 | 101 | 1 | 75.0-125 | | | 2.44 | 20 |
| Chromium | 100 | 58.0 | 181 | 137 | 123 | 79.2 | 1 | 75.0-125 | | J3 | 27.3 | 20 |
| Cobalt | 100 | 4.32 | 101 | 101 | 96.6 | 96.9 | 1 | 75.0-125 | | | 0.255 | 20 |
| Copper | 100 | 8.02 | 115 | 119 | 107 | 111 | 1 | 75.0-125 | | | 3.71 | 20 |
| Lead | 100 | 82.4 | 186 | 145 | 103 | 63.1 | 1 | 75.0-125 | | J3 J6 | 24.3 | 20 |
| Molybdenum | 100 | U | 62.1 | 62.5 | 62.1 | 62.5 | 1 | 75.0-125 | J6 | J6 | 0.725 | 20 |
| Nickel | 100 | 34.0 | 129 | 123 | 94.7 | 88.7 | 1 | 75.0-125 | | | 4.78 | 20 |
| Selenium | 100 | U | 19.9 | 25.5 | 19.9 | 25.5 | 1 | 75.0-125 | J6 | J3 J6 | 24.9 | 20 |
| Silver | 20.0 | 36.5 | 58.1 | 39.2 | 108 | 13.9 | 1 | 75.0-125 | | J3 J6 | 38.8 | 20 |
| Thallium | 100 | 8.12 | 104 | 105 | 95.5 | 96.6 | 1 | 75.0-125 | | | 1.14 | 20 |
| Vanadium | 100 | 337 | 421 | 361 | 84.0 | 23.9 | 1 | 75.0-125 | | J6 | 15.4 | 20 |
| Zinc | 100 | 4030 | 4180 | 4190 | 147 | 152 | 1 | 75.0-125 | E V | E V | 0.105 | 20 |

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# QUALITY CONTROL SUMMARY

L1739664-04

## Method Blank (MB)

(MB) R4080452-1 06/11/24 18:50

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4080452-2 06/11/24 18:52

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 97.1 | 97.1 | 80.0-120 | |
| Arsenic | 100 | 97.9 | 97.9 | 80.0-120 | |
| Barium | 100 | 103 | 103 | 80.0-120 | |
| Beryllium | 100 | 102 | 102 | 80.0-120 | |
| Cadmium | 100 | 98.8 | 98.8 | 80.0-120 | |
| Chromium | 100 | 103 | 103 | 80.0-120 | |
| Cobalt | 100 | 96.8 | 96.8 | 80.0-120 | |
| Copper | 100 | 103 | 103 | 80.0-120 | |
| Lead | 100 | 97.1 | 97.1 | 80.0-120 | |
| Molybdenum | 100 | 102 | 102 | 80.0-120 | |
| Nickel | 100 | 96.4 | 96.4 | 80.0-120 | |
| Selenium | 100 | 96.8 | 96.8 | 80.0-120 | |
| Silver | 20.0 | 19.9 | 99.6 | 80.0-120 | |
| Thallium | 100 | 99.9 | 99.9 | 80.0-120 | |
| Vanadium | 100 | 100 | 100 | 80.0-120 | |
| Zinc | 100 | 98.7 | 98.7 | 80.0-120 | |

## L1742832-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742832-02 06/11/24 18:53 • (MS) R4080452-5 06/11/24 18:59 • (MSD) R4080452-6 06/11/24 19:00

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 100 | 23.6 | 91.1 | 92.9 | 67.6 | 69.3 | 1 | 75.0-125 | J6 | J6 | 1.91 | 20 |
| Arsenic | 100 | 8.33 | 112 | 110 | 103 | 102 | 1 | 75.0-125 | | | 1.13 | 20 |
| Barium | 100 | 200 | 289 | 343 | 88.9 | 143 | 1 | 75.0-125 | | J5 | 17.0 | 20 |
| Beryllium | 100 | 0.145 | 96.0 | 94.7 | 95.8 | 94.6 | 1 | 75.0-125 | | | 1.35 | 20 |
| Cadmium | 100 | 0.125 | 107 | 105 | 107 | 105 | 1 | 75.0-125 | | | 1.97 | 20 |
| Chromium | 100 | 536 | 872 | 677 | 336 | 141 | 1 | 75.0-125 | V | J3 V | 25.2 | 20 |
| Cobalt | 100 | 6.58 | 108 | 107 | 102 | 100 | 1 | 75.0-125 | | | 1.10 | 20 |
| Copper | 100 | 154 | 246 | 225 | 91.9 | 71.0 | 1 | 75.0-125 | | J6 | 8.87 | 20 |
| Lead | 100 | 7.11 | 108 | 108 | 101 | 101 | 1 | 75.0-125 | | | 0.213 | 20 |
| Molybdenum | 100 | 10.8 | 106 | 104 | 95.4 | 93.6 | 1 | 75.0-125 | | | 1.69 | 20 |
| Nickel | 100 | 61.8 | 155 | 145 | 93.5 | 83.3 | 1 | 75.0-125 | | | 6.79 | 20 |
| Selenium | 100 | 9.90 | 130 | 129 | 120 | 119 | 1 | 75.0-125 | | | 0.681 | 20 |
| Silver | 20.0 | 10.9 | 32.9 | 33.7 | 110 | 114 | 1 | 75.0-125 | | | 2.64 | 20 |
| Thallium | 100 | 1.74 | 101 | 102 | 99.4 | 100 | 1 | 75.0-125 | | | 0.633 | 20 |
| Vanadium | 100 | 134 | 226 | 246 | 92.1 | 112 | 1 | 75.0-125 | | | 8.40 | 20 |
| Zinc | 100 | 33.4 | 117 | 115 | 83.2 | 81.5 | 1 | 75.0-125 | | | 1.44 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-19

## Method Blank (MB)

(MB) R4088878-1 07/01/24 19:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Lead | U | | 0.208 | 0.500 |

## Laboratory Control Sample (LCS)

(LCS) R4088878-2 07/01/24 19:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Lead | 100 | 92.2 | 92.2 | 80.0-120 | |

## L1741921-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-16 07/01/24 19:55 • (MS) R4088878-5 07/01/24 20:00 • (MSD) R4088878-6 07/01/24 20:02

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 123 | 31.9 | 127 | 133 | 76.6 | 82.2 | 1 | 75.0-125 | | | 5.30 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-28

## Method Blank (MB)

(MB) R4075820-1 05/31/24 11:27

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | 0.761 | | 0.736 | 5.00 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 |
| Chromium,Dissolved | U | | 1.40 | 10.0 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 |

## Laboratory Control Sample (LCS)

(LCS) R4075820-2 05/31/24 11:29

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 1010 | 101 | 80.0-120 | |
| Beryllium,Dissolved | 1000 | 1020 | 102 | 80.0-120 | |
| Chromium,Dissolved | 1000 | 1040 | 104 | 80.0-120 | |
| Cobalt,Dissolved | 1000 | 951 | 95.1 | 80.0-120 | |
| Molybdenum,Dissolved | 1000 | 1010 | 101 | 80.0-120 | |
| Vanadium,Dissolved | 1000 | 998 | 99.8 | 80.0-120 | |

## L1739618-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739618-07 05/31/24 11:32 • (MS) R4075820-4 05/31/24 11:38 • (MSD) R4075820-5 05/31/24 11:41

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 65.3 | 1060 | 1070 | 99.8 | 101 | 1 | 75.0-125 | | | 0.717 | 20 |
| Beryllium,Dissolved | 1000 | U | 1020 | 1020 | 102 | 102 | 1 | 75.0-125 | | | 0.672 | 20 |
| Chromium,Dissolved | 1000 | 1.58 | 1030 | 1040 | 103 | 104 | 1 | 75.0-125 | | | 0.822 | 20 |
| Cobalt,Dissolved | 1000 | 6.77 | 971 | 979 | 96.4 | 97.2 | 1 | 75.0-125 | | | 0.868 | 20 |
| Molybdenum,Dissolved | 1000 | 1.88 | 1010 | 1020 | 101 | 102 | 1 | 75.0-125 | | | 0.785 | 20 |
| Vanadium,Dissolved | 1000 | U | 1010 | 1020 | 101 | 102 | 1 | 75.0-125 | | | 0.911 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-14,28

## Method Blank (MB)

(MB) R4075868-1 05/31/24 15:16

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4075868-2 05/31/24 15:19

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 52.7 | 105 | 80.0-120 | |
| Arsenic | 50.0 | 54.0 | 108 | 80.0-120 | |
| Barium | 50.0 | 50.3 | 101 | 80.0-120 | |
| Beryllium | 50.0 | 53.7 | 107 | 80.0-120 | |
| Cadmium | 50.0 | 53.9 | 108 | 80.0-120 | |
| Chromium | 50.0 | 55.6 | 111 | 80.0-120 | |
| Copper | 50.0 | 55.4 | 111 | 80.0-120 | |
| Cobalt | 50.0 | 55.0 | 110 | 80.0-120 | |
| Lead | 50.0 | 51.4 | 103 | 80.0-120 | |
| Molybdenum | 50.0 | 51.8 | 104 | 80.0-120 | |
| Nickel | 50.0 | 55.4 | 111 | 80.0-120 | |
| Selenium | 50.0 | 51.3 | 103 | 80.0-120 | |
| Silver | 50.0 | 51.0 | 102 | 80.0-120 | |
| Thallium | 50.0 | 51.7 | 103 | 80.0-120 | |
| Vanadium | 50.0 | 53.2 | 106 | 80.0-120 | |
| Zinc | 50.0 | 53.6 | 107 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1739664-14,28

## L1739703-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739703-01 05/31/24 15:26 • (MS) R4075868-4 05/31/24 15:29 • (MSD) R4075868-5 05/31/24 15:32

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 55.7 | 54.0 | 111 | 108 | 1 | 75.0-125 | | | 3.11 | 20 |
| Arsenic | 50.0 | 9.77 | 60.5 | 62.0 | 101 | 105 | 1 | 75.0-125 | | | 2.51 | 20 |
| Barium | 50.0 | 17.7 | 67.2 | 66.2 | 99.0 | 96.9 | 1 | 75.0-125 | | | 1.52 | 20 |
| Beryllium | 50.0 | U | 53.5 | 51.9 | 107 | 104 | 1 | 75.0-125 | | | 3.06 | 20 |
| Cadmium | 50.0 | U | 53.8 | 53.1 | 108 | 106 | 1 | 75.0-125 | | | 1.36 | 20 |
| Chromium | 50.0 | 6.93 | 59.1 | 62.1 | 104 | 110 | 1 | 75.0-125 | | | 4.94 | 20 |
| Copper | 50.0 | U | 54.0 | 55.3 | 108 | 111 | 1 | 75.0-125 | | | 2.31 | 20 |
| Cobalt | 50.0 | 0.259 | 51.1 | 51.4 | 102 | 102 | 1 | 75.0-125 | | | 0.458 | 20 |
| Lead | 50.0 | 0.852 | 54.8 | 55.5 | 108 | 109 | 1 | 75.0-125 | | | 1.34 | 20 |
| Molybdenum | 50.0 | 1.26 | 53.9 | 53.5 | 105 | 104 | 1 | 75.0-125 | | | 0.646 | 20 |
| Nickel | 50.0 | 6.79 | 57.1 | 57.2 | 101 | 101 | 1 | 75.0-125 | | | 0.189 | 20 |
| Selenium | 50.0 | U | 51.7 | 52.8 | 103 | 106 | 1 | 75.0-125 | | | 1.99 | 20 |
| Silver | 50.0 | U | 50.3 | 49.6 | 101 | 99.1 | 1 | 75.0-125 | | | 1.38 | 20 |
| Thallium | 50.0 | U | 49.7 | 49.7 | 99.4 | 99.4 | 1 | 75.0-125 | | | 0.0148 | 20 |
| Vanadium | 50.0 | 7.02 | 57.1 | 57.6 | 100 | 101 | 1 | 75.0-125 | | | 0.776 | 20 |
| Zinc | 50.0 | U | 52.3 | 52.5 | 105 | 105 | 1 | 75.0-125 | | | 0.393 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-28

## Method Blank (MB)

(MB) R4078036-1 06/06/24 09:55

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony,Dissolved | U | | 1.03 | 4.00 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 |
| Copper,Dissolved | U | | 1.51 | 5.00 |
| Lead,Dissolved | U | | 0.849 | 2.00 |
| Nickel,Dissolved | U | | 0.816 | 2.00 |
| Selenium,Dissolved | U | | 0.300 | 2.00 |
| Silver,Dissolved | U | | 0.0700 | 2.00 |
| Thallium,Dissolved | U | | 0.121 | 2.00 |
| Zinc,Dissolved | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4078036-2 06/06/24 10:01

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | 51.3 | 103 | 80.0-120 | |
| Arsenic,Dissolved | 50.0 | 50.6 | 101 | 80.0-120 | |
| Cadmium,Dissolved | 50.0 | 52.5 | 105 | 80.0-120 | |
| Copper,Dissolved | 50.0 | 48.2 | 96.4 | 80.0-120 | |
| Lead,Dissolved | 50.0 | 50.1 | 100 | 80.0-120 | |
| Nickel,Dissolved | 50.0 | 51.3 | 103 | 80.0-120 | |
| Selenium,Dissolved | 50.0 | 50.0 | 100 | 80.0-120 | |
| Silver,Dissolved | 50.0 | 51.4 | 103 | 80.0-120 | |
| Thallium,Dissolved | 50.0 | 47.6 | 95.1 | 80.0-120 | |
| Zinc,Dissolved | 50.0 | 49.9 | 99.8 | 80.0-120 | |

## L1739662-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739662-05 06/06/24 12:04 • (MS) R4078036-7 06/06/24 12:11 • (MSD) R4078036-8 06/06/24 12:14

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | U | 50.4 | 50.4 | 101 | 101 | 1 | 75.0-125 | | | 0.0469 | 20 |
| Arsenic,Dissolved | 50.0 | 12.4 | 61.0 | 62.8 | 97.1 | 101 | 1 | 75.0-125 | | | 2.91 | 20 |
| Cadmium,Dissolved | 50.0 | U | 50.5 | 51.6 | 101 | 103 | 1 | 75.0-125 | | | 2.10 | 20 |
| Copper,Dissolved | 50.0 | 1.89 | 48.7 | 49.4 | 93.6 | 95.1 | 1 | 75.0-125 | | | 1.50 | 20 |
| Lead,Dissolved | 50.0 | U | 50.8 | 49.5 | 102 | 99.0 | 1 | 75.0-125 | | | 2.68 | 20 |
| Nickel,Dissolved | 50.0 | 2.56 | 51.8 | 54.0 | 98.5 | 103 | 1 | 75.0-125 | | | 4.08 | 20 |
| Selenium,Dissolved | 50.0 | U | 50.6 | 49.8 | 101 | 99.7 | 1 | 75.0-125 | | | 1.60 | 20 |

## L1739662-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739662-05 06/06/24 12:04 • (MS) R4078036-7 06/06/24 12:11 • (MSD) R4078036-8 06/06/24 12:14

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver,Dissolved | 50.0 | U | 48.3 | 47.9 | 96.7 | 95.7 | 1 | 75.0-125 | | | 0.951 | 20 |
| Thallium,Dissolved | 50.0 | U | 47.2 | 47.0 | 94.5 | 93.9 | 1 | 75.0-125 | | | 0.623 | 20 |
| Zinc,Dissolved | 50.0 | 13.4 | 50.3 | 51.5 | 73.9 | 76.2 | 1 | 75.0-125 | J6 | | 2.23 | 20 |

## Method Blank (MB)

(MB) R4074845-4 05/27/24 00:55

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | 88.2 | J | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.9* | | | *78.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074845-1 05/26/24 22:44 • (LCSD) R4074845-2 05/26/24 23:07

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 5360 | 5400 | 107 | 108 | 71.0-127 | | | 0.743 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *111* | *110* | *78.0-120* | | | | |

## Method Blank (MB)

(MB) R4074745-2 05/28/24 11:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.15 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4074745-1 05/28/24 09:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.60 | 92.0 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *106* | *77.0-120* | |

## L1739785-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739785-04 05/28/24 15:30 • (MS) R4074745-3 05/28/24 15:50 • (MSD) R4074745-4 05/28/24 16:15

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 117 | 1.56 | 112 | 114 | 95.1 | 96.9 | 25 | 10.0-141 | | | 1.83 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *106* | *107* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4075141-3 05/28/24 23:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.04 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075141-1 05/28/24 21:53 • (LCSD) R4075141-2 05/28/24 22:16

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.89 | 4.91 | 97.8 | 98.2 | 72.0-125 | | | 0.408 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *110* | *110* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4075221-1 05/29/24 13:58

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.74 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4075221-2 05/29/24 14:17

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 3.90 | 78.0 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *104* | *77.0-120* | |

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

## Method Blank (MB)

(MB) R4078297-2 06/05/24 22:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.90 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078297-1 06/05/24 20:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.83 | 117 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## L1742035-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742035-01 06/06/24 00:32 • (MS) R4078297-3 06/06/24 05:22 • (MSD) R4078297-4 06/06/24 05:41

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 189 | 2.02 | 214 | 217 | 112 | 114 | 25.5 | 10.0-141 | | | 1.37 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *104* | *103* | | *77.0-120* | | | | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4075908-3 05/31/24 10:13

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | 0.000850 | J | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4075908-3 05/31/24 10:13

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *94.7* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075908-1 05/31/24 01:17 • (LCSD) R4075908-2 05/31/24 01:36

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.257 | 0.531 | 41.1 | 85.0 | 10.0-160 | | J3 | 69.5 | 31 |
| Acrylonitrile | 0.625 | 0.509 | 0.540 | 81.4 | 86.4 | 45.0-153 | | | 5.91 | 22 |
| Benzene | 0.125 | 0.110 | 0.122 | 88.0 | 97.6 | 70.0-123 | | | 10.3 | 20 |
| Bromobenzene | 0.125 | 0.119 | 0.122 | 95.2 | 97.6 | 73.0-121 | | | 2.49 | 20 |
| Bromodichloromethane | 0.125 | 0.111 | 0.118 | 88.8 | 94.4 | 73.0-121 | | | 6.11 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075908-1 05/31/24 01:17 • (LCSD) R4075908-2 05/31/24 01:36

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.104 | 0.115 | 83.2 | 92.0 | 64.0-132 | | | 10.0 | 20 |
| Bromomethane | 0.125 | 0.103 | 0.129 | 82.4 | 103 | 56.0-147 | | J3 | 22.4 | 20 |
| n-Butylbenzene | 0.125 | 0.124 | 0.132 | 99.2 | 106 | 68.0-135 | | | 6.25 | 20 |
| sec-Butylbenzene | 0.125 | 0.121 | 0.127 | 96.8 | 102 | 74.0-130 | | | 4.84 | 20 |
| tert-Butylbenzene | 0.125 | 0.129 | 0.133 | 103 | 106 | 75.0-127 | | | 3.05 | 20 |
| Carbon tetrachloride | 0.125 | 0.113 | 0.122 | 90.4 | 97.6 | 66.0-128 | | | 7.66 | 20 |
| Chlorobenzene | 0.125 | 0.118 | 0.124 | 94.4 | 99.2 | 76.0-128 | | | 4.96 | 20 |
| Chlorodibromomethane | 0.125 | 0.116 | 0.125 | 92.8 | 100 | 74.0-127 | | | 7.47 | 20 |
| Chloroethane | 0.125 | 0.106 | 0.125 | 84.8 | 100 | 61.0-134 | | | 16.5 | 20 |
| Chloroform | 0.125 | 0.107 | 0.115 | 85.6 | 92.0 | 72.0-123 | | | 7.21 | 20 |
| Chloromethane | 0.125 | 0.154 | 0.144 | 123 | 115 | 51.0-138 | | | 6.71 | 20 |
| 2-Chlorotoluene | 0.125 | 0.119 | 0.121 | 95.2 | 96.8 | 75.0-124 | | | 1.67 | 20 |
| 4-Chlorotoluene | 0.125 | 0.117 | 0.117 | 93.6 | 93.6 | 75.0-124 | | | 0.000 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.103 | 0.112 | 82.4 | 89.6 | 59.0-130 | | | 8.37 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.119 | 0.130 | 95.2 | 104 | 74.0-128 | | | 8.84 | 20 |
| Dibromomethane | 0.125 | 0.110 | 0.118 | 88.0 | 94.4 | 75.0-122 | | | 7.02 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.124 | 0.126 | 99.2 | 101 | 76.0-124 | | | 1.60 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.125 | 0.121 | 100 | 96.8 | 76.0-125 | | | 3.25 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.122 | 0.124 | 97.6 | 99.2 | 77.0-121 | | | 1.63 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.122 | 0.159 | 97.6 | 127 | 43.0-156 | | J3 | 26.3 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.115 | 0.127 | 92.0 | 102 | 70.0-127 | | | 9.92 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.0977 | 0.106 | 78.2 | 84.8 | 65.0-131 | | | 8.15 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.111 | 0.126 | 88.8 | 101 | 65.0-131 | | | 12.7 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.105 | 0.118 | 84.0 | 94.4 | 73.0-125 | | | 11.7 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.107 | 0.121 | 85.6 | 96.8 | 71.0-125 | | | 12.3 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.116 | 0.123 | 92.8 | 98.4 | 74.0-125 | | | 5.86 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.112 | 0.129 | 89.6 | 103 | 73.0-125 | | | 14.1 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.121 | 0.129 | 96.8 | 103 | 80.0-125 | | | 6.40 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.117 | 0.127 | 93.6 | 102 | 76.0-127 | | | 8.20 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.121 | 0.131 | 96.8 | 105 | 73.0-127 | | | 7.94 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.109 | 0.120 | 87.2 | 96.0 | 59.0-135 | | | 9.61 | 20 |
| Di-isopropyl ether | 0.125 | 0.109 | 0.114 | 87.2 | 91.2 | 60.0-136 | | | 4.48 | 20 |
| Ethylbenzene | 0.125 | 0.118 | 0.124 | 94.4 | 99.2 | 74.0-126 | | | 4.96 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.133 | 0.166 | 106 | 133 | 57.0-150 | | J3 | 22.1 | 20 |
| Isopropylbenzene | 0.125 | 0.118 | 0.121 | 94.4 | 96.8 | 72.0-127 | | | 2.51 | 20 |
| p-Isopropyltoluene | 0.125 | 0.119 | 0.124 | 95.2 | 99.2 | 72.0-133 | | | 4.12 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.701 | 0.771 | 112 | 123 | 30.0-160 | | | 9.51 | 24 |
| Methylene Chloride | 0.125 | 0.108 | 0.112 | 86.4 | 89.6 | 68.0-123 | | | 3.64 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.609 | 0.648 | 97.4 | 104 | 56.0-143 | | | 6.21 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.0998 | 0.106 | 79.8 | 84.8 | 66.0-132 | | | 6.03 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075908-1 05/31/24 01:17 • (LCSD) R4075908-2 05/31/24 01:36

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.106 | 0.114 | 84.8 | 91.2 | 59.0-130 | | | 7.27 | 20 |
| n-Propylbenzene | 0.125 | 0.120 | 0.121 | 96.0 | 96.8 | 74.0-126 | | | 0.830 | 20 |
| Styrene | 0.125 | 0.117 | 0.122 | 93.6 | 97.6 | 72.0-127 | | | 4.18 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.109 | 0.112 | 87.2 | 89.6 | 74.0-129 | | | 2.71 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.110 | 0.117 | 88.0 | 93.6 | 68.0-128 | | | 6.17 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.122 | 0.137 | 97.6 | 110 | 61.0-139 | | | 11.6 | 20 |
| Tetrachloroethene | 0.125 | 0.125 | 0.133 | 100 | 106 | 70.0-136 | | | 6.20 | 20 |
| Toluene | 0.125 | 0.110 | 0.121 | 88.0 | 96.8 | 75.0-121 | | | 9.52 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.120 | 0.132 | 96.0 | 106 | 59.0-139 | | | 9.52 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.123 | 0.139 | 98.4 | 111 | 62.0-137 | | | 12.2 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.116 | 0.129 | 92.8 | 103 | 69.0-126 | | | 10.6 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.119 | 0.127 | 95.2 | 102 | 78.0-123 | | | 6.50 | 20 |
| Trichloroethene | 0.125 | 0.121 | 0.131 | 96.8 | 105 | 76.0-126 | | | 7.94 | 20 |
| Trichlorofluoromethane | 0.125 | 0.115 | 0.136 | 92.0 | 109 | 61.0-142 | | | 16.7 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.112 | 0.116 | 89.6 | 92.8 | 67.0-129 | | | 3.51 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.113 | 0.113 | 90.4 | 90.4 | 70.0-126 | | | 0.000 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.110 | 0.109 | 88.0 | 87.2 | 74.0-124 | | | 0.913 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.117 | 0.114 | 93.6 | 91.2 | 73.0-127 | | | 2.60 | 20 |
| Vinyl chloride | 0.125 | 0.107 | 0.131 | 85.6 | 105 | 63.0-134 | | J3 | 20.2 | 20 |
| Xylenes, Total | 0.375 | 0.362 | 0.378 | 96.5 | 101 | 72.0-127 | | | 4.32 | 20 |
| *(S) Toluene-d8* | | | | *101* | *101* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *103* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *93.1* | *93.6* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075677-3 05/28/24 23:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4075677-3 05/28/24 23:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | 0.000500 | J | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *85.6* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075677-1 05/28/24 21:30 • (LCSD) R4075677-2 05/28/24 21:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 1.14 | 1.06 | 182 | 170 | 10.0-160 | J4 | J4 | 7.27 | 31 |
| Acrylonitrile | 0.625 | 0.684 | 0.673 | 109 | 108 | 45.0-153 | | | 1.62 | 22 |
| Benzene | 0.125 | 0.117 | 0.126 | 93.6 | 101 | 70.0-123 | | | 7.41 | 20 |
| Bromobenzene | 0.125 | 0.135 | 0.133 | 108 | 106 | 73.0-121 | | | 1.49 | 20 |
| Bromodichloromethane | 0.125 | 0.122 | 0.128 | 97.6 | 102 | 73.0-121 | | | 4.80 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-24,25

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075677-1 05/28/24 21:30 • (LCSD) R4075677-2 05/28/24 21:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.133 | 0.133 | 106 | 106 | 64.0-132 | | | 0.000 | 20 |
| Bromomethane | 0.125 | 0.121 | 0.123 | 96.8 | 98.4 | 56.0-147 | | | 1.64 | 20 |
| n-Butylbenzene | 0.125 | 0.135 | 0.142 | 108 | 114 | 68.0-135 | | | 5.05 | 20 |
| sec-Butylbenzene | 0.125 | 0.129 | 0.133 | 103 | 106 | 74.0-130 | | | 3.05 | 20 |
| tert-Butylbenzene | 0.125 | 0.136 | 0.146 | 109 | 117 | 75.0-127 | | | 7.09 | 20 |
| Carbon tetrachloride | 0.125 | 0.125 | 0.138 | 100 | 110 | 66.0-128 | | | 9.89 | 20 |
| Chlorobenzene | 0.125 | 0.134 | 0.137 | 107 | 110 | 76.0-128 | | | 2.21 | 20 |
| Chlorodibromomethane | 0.125 | 0.140 | 0.138 | 112 | 110 | 74.0-127 | | | 1.44 | 20 |
| Chloroethane | 0.125 | 0.115 | 0.127 | 92.0 | 102 | 61.0-134 | | | 9.92 | 20 |
| Chloroform | 0.125 | 0.114 | 0.119 | 91.2 | 95.2 | 72.0-123 | | | 4.29 | 20 |
| Chloromethane | 0.125 | 0.166 | 0.139 | 133 | 111 | 51.0-138 | | | 17.7 | 20 |
| 2-Chlorotoluene | 0.125 | 0.126 | 0.133 | 101 | 106 | 75.0-124 | | | 5.41 | 20 |
| 4-Chlorotoluene | 0.125 | 0.120 | 0.125 | 96.0 | 100 | 75.0-124 | | | 4.08 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.130 | 0.136 | 104 | 109 | 59.0-130 | | | 4.51 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.141 | 0.140 | 113 | 112 | 74.0-128 | | | 0.712 | 20 |
| Dibromomethane | 0.125 | 0.127 | 0.125 | 102 | 100 | 75.0-122 | | | 1.59 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.138 | 0.143 | 110 | 114 | 76.0-124 | | | 3.56 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.133 | 0.136 | 106 | 109 | 76.0-125 | | | 2.23 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.136 | 0.137 | 109 | 110 | 77.0-121 | | | 0.733 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.140 | 0.162 | 112 | 130 | 43.0-156 | | | 14.6 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.122 | 0.130 | 97.6 | 104 | 70.0-127 | | | 6.35 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.110 | 0.111 | 88.0 | 88.8 | 65.0-131 | | | 0.905 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.119 | 0.130 | 95.2 | 104 | 65.0-131 | | | 8.84 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 73.0-125 | | | 2.45 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.119 | 0.128 | 95.2 | 102 | 71.0-125 | | | 7.29 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.124 | 0.130 | 99.2 | 104 | 74.0-125 | | | 4.72 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.119 | 0.131 | 95.2 | 105 | 73.0-125 | | | 9.60 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.136 | 0.139 | 109 | 111 | 80.0-125 | | | 2.18 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.127 | 0.131 | 102 | 105 | 76.0-127 | | | 3.10 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.136 | 0.136 | 109 | 109 | 73.0-127 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.111 | 0.116 | 88.8 | 92.8 | 59.0-135 | | | 4.41 | 20 |
| Di-isopropyl ether | 0.125 | 0.118 | 0.122 | 94.4 | 97.6 | 60.0-136 | | | 3.33 | 20 |
| Ethylbenzene | 0.125 | 0.133 | 0.140 | 106 | 112 | 74.0-126 | | | 5.13 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.146 | 0.155 | 117 | 124 | 57.0-150 | | | 5.98 | 20 |
| Isopropylbenzene | 0.125 | 0.135 | 0.139 | 108 | 111 | 72.0-127 | | | 2.92 | 20 |
| p-Isopropyltoluene | 0.125 | 0.129 | 0.134 | 103 | 107 | 72.0-133 | | | 3.80 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.923 | 0.953 | 148 | 152 | 30.0-160 | | | 3.20 | 24 |
| Methylene Chloride | 0.125 | 0.116 | 0.121 | 92.8 | 96.8 | 68.0-123 | | | 4.22 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.702 | 0.699 | 112 | 112 | 56.0-143 | | | 0.428 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.119 | 0.122 | 95.2 | 97.6 | 66.0-132 | | | 2.49 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075677-1 05/28/24 21:30 • (LCSD) R4075677-2 05/28/24 21:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.126 | 0.130 | 101 | 104 | 59.0-130 | | | 3.12 | 20 |
| n-Propylbenzene | 0.125 | 0.123 | 0.132 | 98.4 | 106 | 74.0-126 | | | 7.06 | 20 |
| Styrene | 0.125 | 0.133 | 0.136 | 106 | 109 | 72.0-127 | | | 2.23 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.127 | 0.133 | 102 | 106 | 74.0-129 | | | 4.62 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.124 | 0.125 | 99.2 | 100 | 68.0-128 | | | 0.803 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.129 | 0.143 | 103 | 114 | 61.0-139 | | | 10.3 | 20 |
| Tetrachloroethene | 0.125 | 0.140 | 0.154 | 112 | 123 | 70.0-136 | | | 9.52 | 20 |
| Toluene | 0.125 | 0.121 | 0.128 | 96.8 | 102 | 75.0-121 | | | 5.62 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.142 | 0.145 | 114 | 116 | 59.0-139 | | | 2.09 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.145 | 0.149 | 116 | 119 | 62.0-137 | | | 2.72 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.126 | 0.137 | 101 | 110 | 69.0-126 | | | 8.37 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.138 | 0.137 | 110 | 110 | 78.0-123 | | | 0.727 | 20 |
| Trichloroethene | 0.125 | 0.133 | 0.145 | 106 | 116 | 76.0-126 | | | 8.63 | 20 |
| Trichlorofluoromethane | 0.125 | 0.126 | 0.143 | 101 | 114 | 61.0-142 | | | 12.6 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.126 | 0.130 | 101 | 104 | 67.0-129 | | | 3.12 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.122 | 0.127 | 97.6 | 102 | 70.0-126 | | | 4.02 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.119 | 0.122 | 95.2 | 97.6 | 74.0-124 | | | 2.49 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.123 | 0.132 | 98.4 | 106 | 73.0-127 | | | 7.06 | 20 |
| Vinyl chloride | 0.125 | 0.116 | 0.130 | 92.8 | 104 | 63.0-134 | | | 11.4 | 20 |
| Xylenes, Total | 0.375 | 0.400 | 0.423 | 107 | 113 | 72.0-127 | | | 5.59 | 20 |
| *(S) Toluene-d8* | | | | *102* | *102* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *104* | *104* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *91.9* | *92.6* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4076178-2 06/01/24 08:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | 0.000650 | J | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4076178-2 06/01/24 08:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *83.4* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R4076178-1 06/01/24 07:58

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.752 | 120 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.632 | 101 | 45.0-153 | |
| Benzene | 0.125 | 0.118 | 94.4 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.105 | 84.0 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.0954 | 76.3 | 73.0-121 | |

## Laboratory Control Sample (LCS)

(LCS) R4076178-1 06/01/24 07:58

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.104 | 83.2 | 64.0-132 | |
| Bromomethane | 0.125 | 0.141 | 113 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.0994 | 79.5 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.0982 | 78.6 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.0966 | 77.3 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.122 | 97.6 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.116 | 92.8 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.112 | 89.6 | 74.0-127 | |
| Chloroethane | 0.125 | 0.131 | 105 | 61.0-134 | |
| Chloroform | 0.125 | 0.105 | 84.0 | 72.0-123 | |
| Chloromethane | 0.125 | 0.142 | 114 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.0960 | 76.8 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.0939 | 75.1 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0921 | 73.7 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.105 | 84.0 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.106 | 84.8 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.108 | 86.4 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.105 | 84.0 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.0999 | 79.9 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.128 | 102 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.107 | 85.6 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.112 | 89.6 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.119 | 95.2 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.108 | 86.4 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.106 | 84.8 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.109 | 87.2 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.111 | 88.8 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.112 | 89.6 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.102 | 81.6 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.100 | 80.0 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.0795 | 63.6 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.128 | 102 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.110 | 88.0 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.0981 | 78.5 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.112 | 89.6 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.0962 | 77.0 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.494 | 79.0 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.116 | 92.8 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.617 | 98.7 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.105 | 84.0 | 66.0-132 | |

## Laboratory Control Sample (LCS)

(LCS) R4076178-1 06/01/24 07:58

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0908 | 72.6 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.0993 | 79.4 | 74.0-126 | |
| Styrene | 0.125 | 0.123 | 98.4 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.112 | 89.6 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.0888 | 71.0 | 68.0-128 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.107 | 85.6 | 61.0-139 | |
| Tetrachloroethene | 0.125 | 0.117 | 93.6 | 70.0-136 | |
| Toluene | 0.125 | 0.110 | 88.0 | 75.0-121 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.106 | 84.8 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.105 | 84.0 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.116 | 92.8 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.105 | 84.0 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.132 | 106 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.158 | 126 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.0950 | 76.0 | 67.0-129 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.0841 | 67.3 | 70.0-126 | J4 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.0937 | 75.0 | 74.0-124 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.0881 | 70.5 | 73.0-127 | J4 |
| Vinyl chloride | 0.125 | 0.139 | 111 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.310 | 82.7 | 72.0-127 | |
| *(S) Toluene-d8* | | | *104* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *101* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *92.4* | *70.0-130* | |

## Method Blank (MB)

(MB) R4075334-3 05/29/24 22:29

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

## Method Blank (MB)

(MB) R4075334-3 05/29/24 22:29

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *109* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *118* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075334-1 05/29/24 21:27 • (LCSD) R4075334-2 05/29/24 21:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 12.1 | 12.7 | 48.4 | 50.8 | 19.0-160 | J | J | 4.84 | 27 |
| Acrolein | 25.0 | 18.7 | 19.1 | 74.8 | 76.4 | 10.0-160 | J | J | 2.12 | 26 |
| Acrylonitrile | 25.0 | 24.3 | 24.5 | 97.2 | 98.0 | 55.0-149 | | | 0.820 | 20 |
| Benzene | 5.00 | 5.10 | 4.92 | 102 | 98.4 | 70.0-123 | | | 3.59 | 20 |

# QUALITY CONTROL SUMMARY

L1739664-13,14,28

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075334-1 05/29/24 21:27 • (LCSD) R4075334-2 05/29/24 21:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 4.67 | 4.75 | 93.4 | 95.0 | 73.0-121 | | | 1.70 | 20 |
| Bromodichloromethane | 5.00 | 5.40 | 5.36 | 108 | 107 | 75.0-120 | | | 0.744 | 20 |
| Bromoform | 5.00 | 4.94 | 5.08 | 98.8 | 102 | 68.0-132 | | | 2.79 | 20 |
| Bromomethane | 5.00 | 3.04 | 3.39 | 60.8 | 67.8 | 10.0-160 | J | J | 10.9 | 25 |
| n-Butylbenzene | 5.00 | 4.49 | 4.30 | 89.8 | 86.0 | 73.0-125 | | | 4.32 | 20 |
| sec-Butylbenzene | 5.00 | 4.71 | 4.65 | 94.2 | 93.0 | 75.0-125 | | | 1.28 | 20 |
| tert-Butylbenzene | 5.00 | 4.99 | 4.79 | 99.8 | 95.8 | 76.0-124 | | | 4.09 | 20 |
| Carbon tetrachloride | 5.00 | 6.05 | 5.74 | 121 | 115 | 68.0-126 | | | 5.26 | 20 |
| Chlorobenzene | 5.00 | 4.79 | 4.89 | 95.8 | 97.8 | 80.0-121 | | | 2.07 | 20 |
| Chlorodibromomethane | 5.00 | 5.15 | 5.24 | 103 | 105 | 77.0-125 | | | 1.73 | 20 |
| Chloroethane | 5.00 | 4.73 | 4.72 | 94.6 | 94.4 | 47.0-150 | J | J | 0.212 | 20 |
| Chloroform | 5.00 | 5.46 | 5.35 | 109 | 107 | 73.0-120 | | | 2.04 | 20 |
| Chloromethane | 5.00 | 4.68 | 4.61 | 93.6 | 92.2 | 41.0-142 | | | 1.51 | 20 |
| 2-Chlorotoluene | 5.00 | 4.96 | 4.74 | 99.2 | 94.8 | 76.0-123 | | | 4.54 | 20 |
| 4-Chlorotoluene | 5.00 | 4.67 | 4.69 | 93.4 | 93.8 | 75.0-122 | | | 0.427 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 3.92 | 4.13 | 78.4 | 82.6 | 58.0-134 | J | J | 5.22 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.99 | 5.21 | 99.8 | 104 | 80.0-122 | | | 4.31 | 20 |
| Dibromomethane | 5.00 | 5.20 | 5.00 | 104 | 100 | 80.0-120 | | | 3.92 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 5.19 | 5.20 | 104 | 104 | 79.0-121 | | | 0.192 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.73 | 4.81 | 94.6 | 96.2 | 79.0-120 | | | 1.68 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 5.02 | 4.95 | 100 | 99.0 | 79.0-120 | | | 1.40 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.97 | 6.05 | 119 | 121 | 51.0-149 | | | 1.33 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.17 | 5.35 | 103 | 107 | 70.0-126 | | | 3.42 | 20 |
| 1,2-Dichloroethane | 5.00 | 5.53 | 5.64 | 111 | 113 | 70.0-128 | | | 1.97 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.18 | 4.91 | 104 | 98.2 | 71.0-124 | | | 5.35 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.89 | 5.16 | 97.8 | 103 | 73.0-120 | | | 5.37 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 4.72 | 4.97 | 94.4 | 99.4 | 73.0-120 | | | 5.16 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.20 | 4.86 | 104 | 97.2 | 77.0-125 | | | 6.76 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.46 | 5.20 | 109 | 104 | 74.0-126 | | | 4.88 | 20 |
| 1,3-Dichloropropane | 5.00 | 4.84 | 4.99 | 96.8 | 99.8 | 80.0-120 | | | 3.05 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 5.16 | 4.95 | 103 | 99.0 | 80.0-123 | | | 4.15 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 5.06 | 4.91 | 101 | 98.2 | 78.0-124 | | | 3.01 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.85 | 4.51 | 97.0 | 90.2 | 58.0-130 | | | 7.26 | 20 |
| Di-isopropyl ether | 5.00 | 5.18 | 5.19 | 104 | 104 | 58.0-138 | | | 0.193 | 20 |
| Ethylbenzene | 5.00 | 4.68 | 4.55 | 93.6 | 91.0 | 79.0-123 | | | 2.82 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 5.09 | 4.67 | 102 | 93.4 | 54.0-138 | | | 8.61 | 20 |
| Isopropylbenzene | 5.00 | 5.14 | 5.06 | 103 | 101 | 76.0-127 | | | 1.57 | 20 |
| p-Isopropyltoluene | 5.00 | 4.63 | 4.74 | 92.6 | 94.8 | 76.0-125 | | | 2.35 | 20 |
| 2-Butanone (MEK) | 25.0 | 14.5 | 14.8 | 58.0 | 59.2 | 44.0-160 | | | 2.05 | 20 |
| Methylene Chloride | 5.00 | 4.83 | 4.48 | 96.6 | 89.6 | 67.0-120 | J | J | 7.52 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075334-1 05/29/24 21:27 • (LCSD) R4075334-2 05/29/24 21:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 25.4 | 26.4 | 102 | 106 | 68.0-142 | | | 3.86 | 20 |
| Methyl tert-butyl ether | 5.00 | 5.32 | 5.54 | 106 | 111 | 68.0-125 | | | 4.05 | 20 |
| Naphthalene | 5.00 | 3.45 | 3.85 | 69.0 | 77.0 | 54.0-135 | J | J | 11.0 | 20 |
| n-Propylbenzene | 5.00 | 4.78 | 4.60 | 95.6 | 92.0 | 77.0-124 | | | 3.84 | 20 |
| Styrene | 5.00 | 4.96 | 4.81 | 99.2 | 96.2 | 73.0-130 | | | 3.07 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.11 | 5.02 | 102 | 100 | 75.0-125 | | | 1.78 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.62 | 4.65 | 92.4 | 93.0 | 65.0-130 | | | 0.647 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 5.18 | 4.96 | 104 | 99.2 | 69.0-132 | | | 4.34 | 20 |
| Tetrachloroethene | 5.00 | 5.27 | 5.25 | 105 | 105 | 72.0-132 | | | 0.380 | 20 |
| Toluene | 5.00 | 4.77 | 4.58 | 95.4 | 91.6 | 79.0-120 | | | 4.06 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 4.86 | 4.89 | 97.2 | 97.8 | 50.0-138 | | | 0.615 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.55 | 4.64 | 91.0 | 92.8 | 57.0-137 | | | 1.96 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 6.03 | 5.62 | 121 | 112 | 73.0-124 | | | 7.04 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.84 | 4.79 | 96.8 | 95.8 | 80.0-120 | | | 1.04 | 20 |
| Trichloroethene | 5.00 | 5.44 | 5.06 | 109 | 101 | 78.0-124 | | | 7.24 | 20 |
| Trichlorofluoromethane | 5.00 | 5.99 | 5.89 | 120 | 118 | 59.0-147 | | | 1.68 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 5.35 | 5.05 | 107 | 101 | 73.0-130 | | | 5.77 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.77 | 4.66 | 95.4 | 93.2 | 76.0-121 | | | 2.33 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.97 | 4.79 | 99.4 | 95.8 | 77.0-120 | | | 3.69 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 5.01 | 4.89 | 100 | 97.8 | 76.0-122 | | | 2.42 | 20 |
| Vinyl chloride | 5.00 | 5.06 | 4.71 | 101 | 94.2 | 67.0-131 | | | 7.16 | 20 |
| Xylenes, Total | 15.0 | 14.5 | 14.5 | 96.7 | 96.7 | 79.0-123 | | | 0.000 | 20 |
| *(S) Toluene-d8* | | | | *103* | *103* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *107* | *110* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *117* | *116* | *70.0-130* | | | | |

## L1739770-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739770-04 05/30/24 03:37 • (MS) R4075334-4 05/30/24 08:09 • (MSD) R4075334-5 05/30/24 08:30

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | U | 15.2 | 13.4 | 60.8 | 53.6 | 1 | 10.0-160 | | | 12.6 | 35 |
| Acrolein | 25.0 | U | 26.4 | 24.6 | 106 | 98.4 | 1 | 10.0-160 | J | J | 7.06 | 39 |
| Acrylonitrile | 25.0 | U | 30.3 | 28.3 | 121 | 113 | 1 | 21.0-160 | | | 6.83 | 32 |
| Benzene | 5.00 | U | 5.91 | 5.48 | 118 | 110 | 1 | 17.0-158 | | | 7.55 | 27 |
| Bromobenzene | 5.00 | U | 5.46 | 5.15 | 109 | 103 | 1 | 30.0-149 | | | 5.84 | 28 |
| Bromodichloromethane | 5.00 | U | 6.60 | 6.11 | 132 | 122 | 1 | 31.0-150 | | | 7.71 | 27 |
| Bromoform | 5.00 | U | 6.23 | 5.36 | 125 | 107 | 1 | 29.0-150 | | | 15.0 | 29 |
| Bromomethane | 5.00 | U | 3.26 | 3.28 | 65.2 | 65.6 | 1 | 10.0-160 | | | 0.612 | 38 |

## L1739770-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739770-04 05/30/24 03:37 • (MS) R4075334-4 05/30/24 08:09 • (MSD) R4075334-5 05/30/24 08:30

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 5.00 | U | 5.60 | 5.34 | 112 | 107 | 1 | 31.0-150 | | | 4.75 | 30 |
| sec-Butylbenzene | 5.00 | U | 5.83 | 5.59 | 117 | 112 | 1 | 33.0-155 | | | 4.20 | 29 |
| tert-Butylbenzene | 5.00 | U | 6.05 | 5.82 | 121 | 116 | 1 | 34.0-153 | | | 3.88 | 28 |
| Carbon tetrachloride | 5.00 | U | 7.38 | 7.00 | 148 | 140 | 1 | 23.0-159 | | | 5.29 | 28 |
| Chlorobenzene | 5.00 | U | 5.80 | 5.47 | 116 | 109 | 1 | 33.0-152 | | | 5.86 | 27 |
| Chlorodibromomethane | 5.00 | U | 6.04 | 5.77 | 121 | 115 | 1 | 37.0-149 | | | 4.57 | 27 |
| Chloroethane | 5.00 | U | 5.32 | 4.73 | 106 | 94.6 | 1 | 10.0-160 | | | 11.7 | 30 |
| Chloroform | 5.00 | U | 6.29 | 6.08 | 126 | 122 | 1 | 29.0-154 | | | 3.40 | 28 |
| Chloromethane | 5.00 | U | 4.83 | 4.36 | 96.6 | 87.2 | 1 | 10.0-160 | | | 10.2 | 29 |
| 2-Chlorotoluene | 5.00 | U | 5.65 | 5.48 | 113 | 110 | 1 | 32.0-153 | | | 3.05 | 28 |
| 4-Chlorotoluene | 5.00 | U | 5.60 | 5.29 | 112 | 106 | 1 | 32.0-150 | | | 5.69 | 28 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | U | 5.40 | 4.78 | 108 | 95.6 | 1 | 22.0-151 | | J | 12.2 | 34 |
| 1,2-Dibromoethane | 5.00 | U | 5.98 | 5.66 | 120 | 113 | 1 | 34.0-147 | | | 5.50 | 27 |
| Dibromomethane | 5.00 | U | 5.90 | 5.61 | 118 | 112 | 1 | 30.0-151 | | | 5.04 | 27 |
| 1,2-Dichlorobenzene | 5.00 | U | 6.06 | 5.70 | 121 | 114 | 1 | 34.0-149 | | | 6.12 | 28 |
| 1,3-Dichlorobenzene | 5.00 | U | 5.75 | 5.42 | 115 | 108 | 1 | 36.0-146 | | | 5.91 | 27 |
| 1,4-Dichlorobenzene | 5.00 | U | 5.71 | 5.51 | 114 | 110 | 1 | 35.0-142 | | | 3.57 | 27 |
| Dichlorodifluoromethane | 5.00 | U | 7.11 | 6.50 | 142 | 130 | 1 | 10.0-160 | | | 8.96 | 29 |
| 1,1-Dichloroethane | 5.00 | U | 6.42 | 5.81 | 128 | 116 | 1 | 25.0-158 | | | 9.98 | 27 |
| 1,2-Dichloroethane | 5.00 | U | 6.60 | 6.22 | 132 | 124 | 1 | 29.0-151 | | | 5.93 | 27 |
| 1,1-Dichloroethene | 5.00 | U | 5.81 | 5.35 | 116 | 107 | 1 | 11.0-160 | | | 8.24 | 29 |
| cis-1,2-Dichloroethene | 5.00 | U | 5.93 | 5.56 | 119 | 111 | 1 | 10.0-160 | | | 6.44 | 27 |
| trans-1,2-Dichloroethene | 5.00 | U | 5.35 | 5.15 | 107 | 103 | 1 | 17.0-153 | | | 3.81 | 27 |
| 1,2-Dichloropropane | 5.00 | U | 5.81 | 5.91 | 116 | 118 | 1 | 30.0-156 | | | 1.71 | 27 |
| 1,1-Dichloropropene | 5.00 | U | 6.39 | 5.94 | 128 | 119 | 1 | 25.0-158 | | | 7.30 | 27 |
| 1,3-Dichloropropane | 5.00 | U | 5.89 | 5.44 | 118 | 109 | 1 | 38.0-147 | | | 7.94 | 27 |
| cis-1,3-Dichloropropene | 5.00 | U | 5.67 | 5.19 | 113 | 104 | 1 | 34.0-149 | | | 8.84 | 28 |
| trans-1,3-Dichloropropene | 5.00 | U | 5.94 | 5.22 | 119 | 104 | 1 | 32.0-149 | | | 12.9 | 28 |
| 2,2-Dichloropropane | 5.00 | U | 6.79 | 6.20 | 136 | 124 | 1 | 24.0-152 | | | 9.08 | 29 |
| Di-isopropyl ether | 5.00 | U | 6.21 | 6.07 | 124 | 121 | 1 | 21.0-160 | | | 2.28 | 28 |
| Ethylbenzene | 5.00 | U | 5.54 | 5.50 | 111 | 110 | 1 | 30.0-155 | | | 0.725 | 27 |
| Hexachloro-1,3-butadiene | 5.00 | U | 6.88 | 6.18 | 138 | 124 | 1 | 20.0-154 | | | 10.7 | 34 |
| Isopropylbenzene | 5.00 | U | 6.33 | 5.76 | 127 | 115 | 1 | 28.0-157 | | | 9.43 | 27 |
| p-Isopropyltoluene | 5.00 | U | 5.88 | 5.53 | 118 | 111 | 1 | 30.0-154 | | | 6.13 | 29 |
| 2-Butanone (MEK) | 25.0 | U | 19.3 | 16.5 | 77.2 | 66.0 | 1 | 10.0-160 | | | 15.6 | 32 |
| Methylene Chloride | 5.00 | U | 5.35 | 4.84 | 107 | 96.8 | 1 | 23.0-144 | | | 10.0 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | U | 32.8 | 29.1 | 131 | 116 | 1 | 29.0-160 | | | 12.0 | 29 |
| Methyl tert-butyl ether | 5.00 | U | 6.63 | 6.05 | 133 | 121 | 1 | 28.0-150 | | | 9.15 | 29 |
| Naphthalene | 5.00 | U | 5.29 | 4.54 | 106 | 90.8 | 1 | 12.0-156 | | J | 15.3 | 35 |
| n-Propylbenzene | 5.00 | U | 5.68 | 5.40 | 114 | 108 | 1 | 31.0-154 | | | 5.05 | 28 |

## L1739770-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739770-04 05/30/24 03:37 • (MS) R4075334-4 05/30/24 08:09 • (MSD) R4075334-5 05/30/24 08:30

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | 5.00 | U | 5.70 | 5.48 | 114 | 110 | 1 | 33.0-155 | | | 3.94 | 28 |
| 1,1,1,2-Tetrachloroethane | 5.00 | U | 6.14 | 5.78 | 123 | 116 | 1 | 36.0-151 | | | 6.04 | 29 |
| 1,1,2,2-Tetrachloroethane | 5.00 | U | 5.57 | 5.04 | 111 | 101 | 1 | 33.0-150 | | | 9.99 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | U | 6.71 | 6.22 | 134 | 124 | 1 | 23.0-160 | | | 7.58 | 30 |
| Tetrachloroethene | 5.00 | U | 5.88 | 5.39 | 118 | 108 | 1 | 10.0-160 | | | 8.70 | 27 |
| Toluene | 5.00 | U | 5.84 | 5.04 | 117 | 101 | 1 | 26.0-154 | | | 14.7 | 28 |
| 1,2,3-Trichlorobenzene | 5.00 | U | 6.04 | 5.53 | 121 | 111 | 1 | 17.0-150 | | | 8.82 | 36 |
| 1,2,4-Trichlorobenzene | 5.00 | U | 5.81 | 5.54 | 116 | 111 | 1 | 24.0-150 | | | 4.76 | 33 |
| 1,1,1-Trichloroethane | 5.00 | U | 7.14 | 6.61 | 143 | 132 | 1 | 23.0-160 | | | 7.71 | 28 |
| 1,1,2-Trichloroethane | 5.00 | U | 5.70 | 5.58 | 114 | 112 | 1 | 35.0-147 | | | 2.13 | 27 |
| Trichloroethene | 5.00 | U | 6.00 | 5.70 | 120 | 114 | 1 | 10.0-160 | | | 5.13 | 25 |
| Trichlorofluoromethane | 5.00 | U | 7.67 | 6.87 | 153 | 137 | 1 | 17.0-160 | | | 11.0 | 31 |
| 1,2,3-Trichloropropane | 5.00 | U | 6.10 | 5.62 | 122 | 112 | 1 | 34.0-151 | | | 8.19 | 29 |
| 1,2,4-Trimethylbenzene | 5.00 | U | 5.88 | 5.19 | 118 | 104 | 1 | 26.0-154 | | | 12.5 | 27 |
| 1,2,3-Trimethylbenzene | 5.00 | U | 5.76 | 5.22 | 115 | 104 | 1 | 32.0-149 | | | 9.84 | 28 |
| 1,3,5-Trimethylbenzene | 5.00 | U | 5.98 | 5.66 | 120 | 113 | 1 | 28.0-153 | | | 5.50 | 27 |
| Vinyl chloride | 5.00 | U | 5.11 | 4.69 | 102 | 93.8 | 1 | 10.0-160 | | | 8.57 | 27 |
| Xylenes, Total | 15.0 | U | 17.5 | 16.2 | 117 | 108 | 1 | 29.0-154 | | | 7.72 | 28 |
| *(S) Toluene-d8* | | | | | *102* | *100* | | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *109* | *107* | | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *116* | *118* | | *70.0-130* | | | | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4075702-1 05/30/24 20:05

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | 432 | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *56.0* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075702-2 05/30/24 20:25 • (LCSD) R4075702-3 05/30/24 20:45

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 1180 | 1220 | 157 | 163 | 50.0-150 | J4 | J4 | 3.33 | 20 |
| C22-C32 Hydrocarbons | 750 | 754 | 777 | 101 | 104 | 50.0-150 | | | 3.00 | 20 |
| *(S) o-Terphenyl* | | | | *63.0* | *63.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4076211-3 06/01/24 01:18

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *61.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076211-1 06/01/24 00:34 • (LCSD) R4076211-2 06/01/24 00:58

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 809 | 819 | 108 | 109 | 50.0-150 | | | 1.23 | 20 |
| C22-C32 Hydrocarbons | 750 | 684 | 688 | 91.2 | 91.7 | 50.0-150 | | | 0.583 | 20 |
| *(S) o-Terphenyl* | | | | *66.0* | *65.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4075628-1 05/30/24 16:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *63.4* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4075628-2 05/30/24 16:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 16.7 | 66.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 15.1 | 60.4 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *57.7* | *18.0-148* | |

## L1739664-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739664-18 05/31/24 11:11 • (MS) R4075925-1 05/31/24 11:25 • (MSD) R4075925-2 05/31/24 11:39

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 23.9 | 54.8 | 73.8 | 96.2 | 66.9 | 141 | 40 | 50.0-150 | J | J J3 | 26.3 | 20 |
| C22-C32 Hydrocarbons | 23.9 | 334 | 300 | 375 | 0.000 | 141 | 40 | 50.0-150 | V | J3 | 22.5 | 20 |
| *(S) o-Terphenyl* | | | | | *89.5* | *87.3* | | *18.0-148* | J7 | J7 | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract.

## Method Blank (MB)

(MB) R4077959-1 06/05/24 20:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *89.2* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4077959-2 06/06/24 01:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 19.3 | 77.2 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 19.0 | 76.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *69.1* | *18.0-148* | |

## Method Blank (MB)

(MB) R4075901-1 05/30/24 21:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *65.5* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *66.2* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4075901-2 05/30/24 22:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.122 | 73.1 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.127 | 76.0 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *72.8* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *75.1* | *10.0-139* | |

## L1739367-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739367-07 05/31/24 01:03 • (MS) R4075901-3 05/31/24 01:34 • (MSD) R4075901-4 05/31/24 01:44

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.197 | U | 0.112 | 0.110 | 57.1 | 56.4 | 1 | 10.0-160 | | | 1.80 | 37 |
| PCB 1260 | 0.197 | U | 0.109 | 0.109 | 55.4 | 55.5 | 1 | 10.0-160 | P | P | 0.433 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *39.5* | *38.9* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *49.2* | *55.2* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4075976-2 05/31/24 19:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4075976-2 05/31/24 19:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *78.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *73.4* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *59.5* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *71.8* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *67.0* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *80.8* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4075976-1 05/31/24 18:41

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.461 | 69.2 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.515 | 77.3 | 40.0-120 | |
| Anthracene | 0.666 | 0.524 | 78.7 | 42.0-120 | |
| Benzidine | 1.33 | 0.404 | 30.4 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.549 | 82.4 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.490 | 73.6 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.483 | 72.5 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.561 | 84.2 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.521 | 78.2 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.350 | 52.6 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.366 | 55.0 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4075976-1 05/31/24 18:41

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.421 | 63.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.548 | 82.3 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.441 | 66.2 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.510 | 76.6 | 40.0-120 | |
| Chrysene | 0.666 | 0.506 | 76.0 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.601 | 90.2 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.425 | 63.8 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.426 | 64.0 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.456 | 68.5 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.01 | 75.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.539 | 80.9 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.538 | 80.8 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.534 | 80.2 | 44.0-120 | |
| Fluorene | 0.666 | 0.480 | 72.1 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.505 | 75.8 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.362 | 54.4 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.411 | 61.7 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.413 | 62.0 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.636 | 95.5 | 45.0-120 | |
| Isophorone | 0.666 | 0.357 | 53.6 | 23.0-120 | |
| Naphthalene | 0.666 | 0.371 | 55.7 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.329 | 49.4 | 17.0-120 | J |
| n-Nitrosodimethylamine | 0.666 | 0.309 | 46.4 | 10.0-125 | J |
| n-Nitrosodiphenylamine | 0.666 | 0.479 | 71.9 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.418 | 62.8 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.493 | 74.0 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.540 | 81.1 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.553 | 83.0 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.496 | 74.5 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.521 | 78.2 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.500 | 75.1 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.558 | 83.8 | 40.0-120 | |
| Pyrene | 0.666 | 0.516 | 77.5 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.381 | 57.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.410 | 61.6 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.479 | 71.9 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.413 | 62.0 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.359 | 53.9 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.696 | 105 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.576 | 86.5 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4075976-1 05/31/24 18:41

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.446 | 67.0 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.543 | 81.5 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.376 | 56.5 | 29.0-120 | |
| Phenol | 0.666 | 0.452 | 67.9 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.491 | 73.7 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *75.2* | *12.0-120* | |
| *(S) Phenol-d5* | | | *71.6* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *47.1* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *68.2* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *74.3* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *77.8* | *10.0-120* | |

# QUALITY CONTROL SUMMARY

L1739664-04,10

## Method Blank (MB)

(MB) R4078735-2 06/06/24 10:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4078735-2 06/06/24 10:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *60.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *57.5* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *46.8* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *54.7* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *48.6* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *64.9* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.460 | 69.1 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.505 | 75.8 | 40.0-120 | |
| Anthracene | 0.666 | 0.520 | 78.1 | 42.0-120 | |
| Benzidine | 1.33 | 0.244 | 18.3 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.553 | 83.0 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.511 | 76.7 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.491 | 73.7 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.573 | 86.0 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.538 | 80.8 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.359 | 53.9 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.425 | 63.8 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.429 | 64.4 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.511 | 76.7 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.436 | 65.5 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.498 | 74.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.514 | 77.2 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.596 | 89.5 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.435 | 65.3 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.428 | 64.3 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.454 | 68.2 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.917 | 68.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.523 | 78.5 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.524 | 78.7 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.522 | 78.4 | 44.0-120 | |
| Fluorene | 0.666 | 0.470 | 70.6 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.480 | 72.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.375 | 56.3 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.373 | 56.0 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.427 | 64.1 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.640 | 96.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.369 | 55.4 | 23.0-120 | |
| Naphthalene | 0.666 | 0.379 | 56.9 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.347 | 52.1 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.338 | 50.8 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.458 | 68.8 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.428 | 64.3 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.491 | 73.7 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.559 | 83.9 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.567 | 85.1 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.508 | 76.3 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.522 | 78.4 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.498 | 74.8 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.561 | 84.2 | 40.0-120 | |
| Pyrene | 0.666 | 0.531 | 79.7 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.391 | 58.7 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.408 | 61.3 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.469 | 70.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.413 | 62.0 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.366 | 55.0 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.626 | 94.0 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.434 | 65.2 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.443 | 66.5 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.515 | 77.3 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.351 | 52.7 | 29.0-120 | |
| Phenol | 0.666 | 0.450 | 67.6 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.479 | 71.9 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *76.9* | *12.0-120* | |
| *(S) Phenol-d5* | | | *71.0* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *48.9* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *69.7* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *67.7* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *78.4* | *10.0-120* | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.798 | 0.00660 | 0.428 | 0.393 | 52.8 | 48.4 | 1 | 18.0-120 | | | 8.59 | 32 |
| Acenaphthylene | 0.798 | U | 0.437 | 0.417 | 54.7 | 52.3 | 1 | 25.0-120 | | | 4.56 | 32 |
| Anthracene | 0.798 | 0.00737 | 0.515 | 0.442 | 63.6 | 54.4 | 1 | 22.0-120 | | | 15.3 | 29 |
| Benzidine | 1.59 | U | U | U | 0.000 | 0.000 | 1 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.798 | 0.129 | 0.745 | 0.535 | 77.1 | 50.9 | 1 | 25.0-120 | | J3 | 32.7 | 29 |
| Benzo(b)fluoranthene | 0.798 | 0.206 | 0.829 | 0.529 | 78.0 | 40.5 | 1 | 19.0-122 | | J3 | 44.1 | 31 |
| Benzo(k)fluoranthene | 0.798 | 0.0623 | 0.579 | 0.438 | 64.8 | 47.1 | 1 | 23.0-120 | | | 27.8 | 30 |
| Benzo(g,h,i)perylene | 0.798 | 0.118 | 0.688 | 0.482 | 71.4 | 45.6 | 1 | 10.0-120 | | J3 | 35.2 | 33 |
| Benzo(a)pyrene | 0.798 | 0.151 | 0.762 | 0.521 | 76.5 | 46.3 | 1 | 24.0-120 | | J3 | 37.6 | 30 |
| Bis(2-chlorethoxy)methane | 0.798 | U | 0.224 | 0.262 | 28.0 | 32.8 | 1 | 10.0-120 | J | J | 15.5 | 34 |
| Bis(2-chloroethyl)ether | 0.798 | U | 0.273 | 0.313 | 34.1 | 39.2 | 1 | 10.0-120 | J | J | 13.7 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.798 | U | 0.235 | 0.307 | 29.4 | 38.4 | 1 | 10.0-120 | J | J | 26.5 | 40 |
| 4-Bromophenyl-phenylether | 0.798 | U | 0.511 | 0.486 | 64.0 | 60.8 | 1 | 27.0-120 | | | 5.13 | 30 |
| 2-Chloronaphthalene | 0.798 | U | 0.360 | 0.346 | 45.1 | 43.3 | 1 | 20.0-120 | | | 4.14 | 32 |
| 4-Chlorophenyl-phenylether | 0.798 | U | 0.481 | 0.447 | 60.2 | 55.9 | 1 | 24.0-120 | | | 7.35 | 29 |
| Chrysene | 0.798 | 0.193 | 0.819 | 0.554 | 78.4 | 45.1 | 1 | 21.0-120 | | J3 | 38.7 | 29 |
| Dibenz(a,h)anthracene | 0.798 | 0.0340 | 0.570 | 0.459 | 67.1 | 53.2 | 1 | 10.0-120 | | | 21.5 | 32 |
| 1,2-Dichlorobenzene | 0.798 | U | 0.231 | 0.291 | 29.0 | 36.4 | 1 | 10.0-120 | J | J | 22.8 | 38 |
| 1,3-Dichlorobenzene | 0.798 | U | 0.221 | 0.285 | 27.7 | 35.7 | 1 | 10.0-120 | J | J | 25.0 | 40 |
| 1,4-Dichlorobenzene | 0.798 | U | 0.245 | 0.315 | 30.6 | 39.5 | 1 | 10.0-120 | J | J | 25.2 | 39 |
| 3,3-Dichlorobenzidine | 1.59 | U | 0.773 | 0.773 | 48.5 | 48.5 | 1 | 10.0-120 | | | 0.000 | 34 |
| 2,4-Dinitrotoluene | 0.798 | U | 0.427 | 0.454 | 53.5 | 56.9 | 1 | 30.0-120 | | | 6.08 | 31 |

# QUALITY CONTROL SUMMARY

L1739664-04,10

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.798 | U | 0.421 | 0.427 | 52.7 | 53.5 | 1 | 25.0-120 | | | 1.43 | 31 |
| Fluoranthene | 0.798 | 0.119 | 0.717 | 0.538 | 74.9 | 52.5 | 1 | 18.0-126 | | | 28.5 | 32 |
| Fluorene | 0.798 | 0.00824 | 0.461 | 0.419 | 56.7 | 51.4 | 1 | 25.0-120 | | | 9.68 | 30 |
| Hexachlorobenzene | 0.798 | U | 0.484 | 0.426 | 60.7 | 53.4 | 1 | 27.0-120 | | | 12.8 | 28 |
| Hexachloro-1,3-butadiene | 0.798 | U | 0.254 | 0.288 | 31.9 | 36.1 | 1 | 10.0-120 | J | J | 12.6 | 38 |
| Hexachlorocyclopentadiene | 0.798 | U | 0.0301 | 0.0651 | 3.77 | 8.16 | 1 | 10.0-120 | J J6 | J J3 J6 | 73.7 | 40 |
| Hexachloroethane | 0.798 | U | 0.214 | 0.305 | 26.8 | 38.3 | 1 | 10.0-120 | J | J | 35.1 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.798 | 0.129 | 0.793 | 0.566 | 83.2 | 54.7 | 1 | 10.0-120 | | J3 | 33.5 | 32 |
| Isophorone | 0.798 | U | 0.236 | 0.273 | 29.6 | 34.1 | 1 | 13.0-120 | J | J | 14.4 | 34 |
| Naphthalene | 0.798 | 0.0107 | 0.260 | 0.291 | 31.3 | 35.1 | 1 | 10.0-120 | | | 11.0 | 35 |
| Nitrobenzene | 0.798 | U | 0.191 | 0.248 | 23.9 | 31.1 | 1 | 10.0-120 | J | J | 26.0 | 36 |
| n-Nitrosodimethylamine | 0.798 | U | 0.163 | 0.212 | 20.4 | 26.5 | 1 | 10.0-127 | J | J | 26.0 | 40 |
| n-Nitrosodiphenylamine | 0.798 | U | 0.462 | 0.420 | 57.9 | 52.6 | 1 | 17.0-120 | | | 9.66 | 29 |
| n-Nitrosodi-n-propylamine | 0.798 | U | 0.248 | 0.293 | 31.1 | 36.7 | 1 | 10.0-120 | J | J | 16.6 | 37 |
| Phenanthrene | 0.798 | 0.0555 | 0.571 | 0.467 | 64.5 | 51.6 | 1 | 17.0-120 | | | 19.9 | 31 |
| Benzylbutyl phthalate | 0.798 | U | 0.534 | 0.471 | 66.9 | 59.0 | 1 | 23.0-120 | | | 12.6 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.798 | 0.103 | 0.664 | 0.540 | 70.4 | 54.8 | 1 | 17.0-126 | | | 20.6 | 30 |
| Di-n-butyl phthalate | 0.798 | U | 0.495 | 0.443 | 62.0 | 55.5 | 1 | 30.0-120 | | | 11.2 | 29 |
| Diethyl phthalate | 0.798 | U | 0.493 | 0.469 | 61.7 | 58.7 | 1 | 26.0-120 | | | 5.06 | 28 |
| Dimethyl phthalate | 0.798 | U | 0.428 | 0.405 | 53.7 | 50.8 | 1 | 25.0-120 | | J | 5.55 | 29 |
| Di-n-octyl phthalate | 0.798 | U | 0.540 | 0.504 | 67.7 | 63.1 | 1 | 21.0-123 | | | 6.99 | 29 |
| Pyrene | 0.798 | 0.153 | 0.744 | 0.537 | 73.9 | 48.0 | 1 | 16.0-121 | | J3 | 32.3 | 32 |
| 1,2,4-Trichlorobenzene | 0.798 | U | 0.269 | 0.296 | 33.7 | 37.0 | 1 | 12.0-120 | J | J | 9.48 | 37 |
| 4-Chloro-3-methylphenol | 0.798 | U | 0.406 | 0.359 | 50.9 | 45.0 | 1 | 15.0-120 | | J | 12.4 | 30 |
| 2-Chlorophenol | 0.798 | U | 0.269 | 0.330 | 33.7 | 41.3 | 1 | 15.0-120 | J | J | 20.3 | 37 |
| 2,4-Dichlorophenol | 0.798 | U | 0.336 | 0.341 | 42.1 | 42.7 | 1 | 20.0-120 | J | J | 1.44 | 31 |
| 2,4-Dimethylphenol | 0.798 | U | 0.302 | 0.305 | 37.8 | 38.3 | 1 | 10.0-120 | J | J | 1.20 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.798 | U | 0.523 | 0.494 | 65.5 | 61.9 | 1 | 10.0-120 | | | 5.74 | 39 |
| 2,4-Dinitrophenol | 0.798 | U | 0.451 | 0.372 | 56.6 | 46.6 | 1 | 10.0-121 | | J | 19.2 | 40 |
| 2-Nitrophenol | 0.798 | U | 0.262 | 0.330 | 32.8 | 41.3 | 1 | 12.0-120 | J | J | 23.0 | 39 |
| 4-Nitrophenol | 0.798 | U | 0.511 | 0.483 | 64.0 | 60.5 | 1 | 10.0-137 | | | 5.63 | 32 |
| Pentachlorophenol | 0.798 | U | 0.409 | 0.341 | 51.2 | 42.7 | 1 | 10.0-160 | | J | 18.2 | 31 |
| Phenol | 0.798 | U | 0.277 | 0.333 | 34.8 | 41.8 | 1 | 12.0-120 | J | J | 18.3 | 38 |
| 2,4,6-Trichlorophenol | 0.798 | U | 0.432 | 0.411 | 54.1 | 51.5 | 1 | 19.0-120 | | | 4.91 | 32 |
| *(S) 2-Fluorophenol* | | | | | *34.5* | *43.7* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *37.2* | *43.9* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *22.8* | *30.5* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *45.1* | *44.8* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *59.5* | *54.1* | | *10.0-127* | | | | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *59.8* | *54.0* | | *10.0-120* | | | | |

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

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |

# GLOSSARY OF TERMS

| Qualifier | Description |
|---|---|
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |
| T8 | Sample(s) received past/too close to holding time expiration. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # 1793.0030500

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Aguayo, A. Vonk

Site/Facility ID # AB&I

P.O. # —

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Quote # —

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr(TPH-g) | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres (PCBs) | V8270 4ozClr-NoPres (SVOCs) | 8260 40mlAmb/MeOH10ml/Syr (VOCs) | HOLD | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-E1-1/GW-1-1.0 | Grab | SS | 1 | 05/22/24 | 1405 | 3 | | | X | X | X | | X | | | | -01 |
| BS-E1-1/GW-1-2.0 | | SS | 2 | | 1420 | 4 | | | X | | X | X | X | | | | -02 |
| BS-E1-1/GW-1-3.0 | | SS | 3 | | 1430 | 4 | X | X | X | | X | X | X | | | | -03 |
| BS-E1-1/GW-1-4.0 | | SS | 4 | | 1435 | 4 | | | | | | | X | | | | -04 |
| BS-E1-1/GW-1-5.0 | | SS | 5 | | 1443 | 4 | X | X | | | | X | X | | | | -05 |
| Bottom GW-1-13.5 | | SS | 13.5 | | 1455 | 3 | X | X | | | | X | | | | | -06 |
| G-E1-1/GW-2-1.0 | | SS | 1 | | 1005 | 3 | | | X | X | X | | X | | | | -07 |
| G-E1-1/GW-2-2.0 | | SS | 2 | | 1014 | 4 | | | X | | X | X | X | | | | -08 |
| G-E1-1/GW-2-3.0 | | SS | 3 | | 1018 | 4 | X | X | X | | X | X | X | | | | -09 |
| G-E1-1/GW-2-4.0 | | SS | 4 | | 1025 | 4 | | | | | | | X | | | | -10 |

Chain of Custody Page 1 of 3

Pace
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**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1739604

Tat H115

Acctnum: **ROUXOCA**

Template: **T253291**

Prelogin: **P1076441**

PM: **3500 - Jennifer Gambill**

PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeoH TBR | |
|---|---|---|---|---|---|
| | 05/22/24 | 1540 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 0.0 °C 2.4+0.1=2.5 | Bottles Received: 10 |
| | 5/22/24 | 16:30 | SWA CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: |
| | | | Easton Dyan | 5/23/24 | 1200 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
**Accounts Payable**
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to: **Josh Osborne**

Email To: josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland CA

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project # 1793.00230500

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Aguayo & A. Vonk

Site/Facility ID # AB&I

P.O. # —

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Quote # —

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | HOLD | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-EI-1/GW-2-5.0 | Grab | SS | 5 | 05/22/24 | 1032 | 4 | X | X | | | X | X | X | | -11 |
| [illegible] | ↓ | SS | | | ~~1050~~ | | | | | | | | | | ~~-12~~ |
| G-EI-1/GW-2-14. | ↓ | SS | 14 | 05/22/24 | 1055 | 3 | X | X | | | X | | | | -12 |
| TB-052224. | Grab | SS | — | 05/22/24 | 1200. | 2 | | | | | | X | | HR 5/23/24 | -13 |
| EB-052224. | Grab. | SS | — | 05/22/24 | 1515. | 9 | X | X | X | | | X | | | -14 |
| TB-052224-2. | Grab | SS | — | 05/22/24 | 1200 | 2 | | | | | | X | | | -15 |

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 05/22/24 | 1500 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | 5/22/24 | 16:30 | GWP Carcos |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | Easton Dam |

Trip Blank Received: Yes / No
HCl / MeOH
TBR

Temp: 2.4 +0.1 = 2.5 °C

Bottles Received: 100

Date: 5/23/24 Time: 1200

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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

Chain of Custody Page 2 of 3

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

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SDG # L1739164

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEx Ground**

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # 1793.003B500

Lab Project # **ROUXOCA-CA**

Collected by (print): D. Burley & J. Collison

Site/Facility ID # ABI

P.O. # —

Collected by (signature):

Immediately Packed on Ice N ___ Y t

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

Quote # —

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 3 of 3

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1739604

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | HOLD | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/UC-C4-1/P10-1.0 | Grab | SS | 1 | 5/22/24 | 817 | 3-X | | | X | X | X | | X | | | | -26 |
| G/UC-C4-1/P10-2.0 | | SS | 2 | | 828 | 4 | | | X | | X | X | X | | | | -27 |
| G/UC-C4-1/P10-3.0 | | SS | 3 | | 837 | 7 | X | X | X | | X | | X | | | | -28 |
| G/UC-C4-1/P10-4.0 | | SS | 4 | | 840 | 3 | | | | | | | X | | | | -29 |
| G/UC-C4-1/P10-5.0 | | SS | 5 | | 845 | 4 | X | X | | | | X | X | | | | -30 |
| G/UC-C4-1/P10-8.0 | | SS | 8 | | 850 | 4 | | | | | | | X | | | | -31 |
| G/UC-C4-1/P10-10.0 | | SS | 10 | | 858 | 4 | | | | | | X | X | | | | -32 |
| G/UC-C4-1/P10-18.5 | | SS | 18.5 | | 945 | 7 | X | X | | | | X | X | | | | -33 |
| GW-4-13.5 | | SS | 13.5 | | 1058 | 4 | X | X | | | | X | X | | | | -34 |
| GW-3-1-13.0 | ↓ | SS | 13.0 | ↓ | | 4 | X | X | | | | X | X | | | | -35 |

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

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

| | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| Relinquished by : (Signature) | 05/22/24 | 1520 | | | |
| Relinquished by : (Signature) | 5/22/24 | 1630 | SUS COURIER | Temp: 2.4+0.1=2.5 °C Bottles Received: 100 | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Kristen Organ | Date: 5/23/24 Time: 1200 | Hold: Condition: NCF / OK |

LT391004

| Tracking Numbers | | Temperature |
|---|---|---|
| NA | | 2.4 ±0.1 = 2.5 EOAG |
| NA | | 3.2 ±0.1 = 3.3 EOAG |
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Easton Orgus

Name

5/23/24 1200

Date

## 5/23-NCF-L1739664 ROUXOCA

R2/R3/R4/RX/EX

**Time estimate:** oh **Time spent:** oh

**Members**

Hailey Robertson (responsible) Jennifer Gambill

Due on *28 May 2024 8:00 AM* for target *Done*

- [ ] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [x] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

**Comments**

*Hailey Robertson* *23 May 2024 5:24 PM*

Received ID: GW-08-1 (5/21/24 @ 1340) not listed on the COC. Received 2-250ml $HNO_3$, 7-40ml HCl.

*Jennifer Gambill* *24 May 2024 12:53 PM*

Per client, please analyze this sample for VOC, DROCAERLVI, GROCA and Total and Dissolved Metals.

*Hailey Robertson* *24 May 2024 4:17 PM*

Done

# Pace Analytical National

**Login Confirmation Report**

May 24, 2024 - 15:59

**Account: ROUXOCA - Roux - Oakland, CA**

| | | | |
|---|---|---|---|
| SDG | L1739664 | Receive Date: 05/23/2024 | Project Manager: Jennifer Gambill |
| Template # | | | Entered By: Hailey R Melson |
| Report to: | Josh Osborne | Lab Project Number: ROUXOCA-CA | **Report MDL: Y** |
| | 555 12th Street | Client Project # 1793.0030500 | **HDC: N** |
| | Suite 250 | Project Description: | PO # |
| | Oakland, CA 94607 | Collected By: JA/AV | PO Req: N |
| Phone: | (415) 967-6000 | Reg. State: CA | Terms: 20 |
| Email: | josborne@rouxinc.com;rmaxwell@rouxinc.com | | Quote # |

**Project Manager Notes:** ****Only use AEI flow controllers for the SUMMA1L.****

TPHs = TPHg/d/mo
Metals = CAM17 Metals

**BNSF Site has no MLF.**

**Air EDD, report in ug/m3.**

| Matrix | Test | Sample ID | Collection Date | Design ID | Method | Unit Price |
|---|---|---|---|---|---|---|
| **L1739664-01** | | **BS-E1-1/GW-1-1.0** | **05/22/2024 14:05** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: SVOC, Metals, PCBs<br>Hold: TPHs | | | $ 15.00 |
| Misc | ENERGY | Environmental Impact Fee | | | | $ 0.00 |
| Misc | SCLOGFRT | Logistical Freight | | | | $ 0.00 |
| **L1739664-02** | | **BS-E1-1/GW-1-2.0** | **05/22/2024 14:20** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, SVOC, Metals<br>Hold: TPHs and PCBs | | | $ 15.00 |
| **L1739664-03** | | **BS-E1-1/GW-1-3.0** | **05/22/2024 14:30** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, SVOC, TPHs, Metals<br>Hold: PCBs | | | $ 15.00 |
| **L1739664-04** | | **BS-E1-1/GW-1-4.0** | **05/22/2024 14:35** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| **L1739664-05** | | **BS-E1-1/GW-1-5.0** | **05/22/2024 14:43** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, TPHs<br>Hold: TPHs, metals, PCBs | | | $ 15.00 |

**The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **L1739664-06** | | **GW-1-13.5** | **05/22/2024 14:55** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | DROCAER | DRO/ORO California Extended | | UDEFAULT | 8015 | $ 86.25 |
| SS | GROCA | GROCA | | UDEFAULT | 8015 | $ 60.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1739664-07** | | **G-E1-1/GW-2-1.0** | **05/22/2024 10:05** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: SVOC, Metals, PCBs<br>Hold: TPHs | | | $ 15.00 |
| **L1739664-08** | | **G-E1-1/GW-2-2.0** | **05/22/2024 10:14** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, SVOC, Metals<br>Hold: TPHs and PCBs | | | $ 15.00 |
| **L1739664-09** | | **G-E1-1/GW-2-3.0** | **05/22/2024 10:18** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, SVOC, TPHs, Metals<br>Hold: PCBs | | | $ 15.00 |
| **L1739664-10** | | **G-E1-1/GW-2-4.0** | **05/22/2024 10:25** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| **L1739664-11** | | **G-E1-1/GW-2-5.0** | **05/22/2024 10:32** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Samples on Hold | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOCs, TPHs<br>Hold: TPHs, metals, PCBs | | | $ 15.00 |
| **L1739664-12** | | **G-E1-1/GW-2-14** | **05/22/2024 10:55** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | DROCAER | DRO/ORO California Extended | | UDEFAULT | 8015 | $ 86.25 |
| SS | GROCA | GROCA | | UDEFAULT | 8015 | $ 60.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| SS | TS | Total Solids | | DEFAULT | 2540 G-2011 | $ 6.25 |
| SS | V8260 | Volatiles | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1739664-13** | | **TB-052224** | **05/22/2024 12:00** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| GW | V8260 | VOCs by 8260 | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |

**The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **L1739664-14** | | **EB-052224** | **05/22/2024 15:15** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| GW | DROCAERLVI | DRO/ORO California Extended by LVI | | UPPB | 3511/8015 | $ 86.25 |
| GW | GROCA | GROCA | | UPPB | 8015 | $ 60.00 |
| GW | M6010CAM17 | California Title 22 Metals List | | | | $ 166.25 |
| GW | AGG | Silver by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | ASG | Arsenic by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | BAG | Barium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | BEG | Beryllium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | CDG | Cadmium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | COG | Cobalt by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | CRG | Chromium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | CUG | Copper by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | HG | Mercury | | UDEFAULT | 7470A | $ 0.00 |
| GW | MOG | Molybdenum by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | NIG | Nickel by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | PBG | Lead by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | SBG | Antimony by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | SEG | Selenium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | TLG | Thallium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | VG | Vanadium by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | ZNG | Zinc by ICPMS | | UDEFAULT | 6020 | $ 0.00 |
| GW | V8260 | VOCs by 8260 | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1739664-15** | | **TB-052224-2** | **05/22/2024 12:00** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| GW | V8260 | VOCs by 8260 | | UDEFAULT | 8260B | $ 118.75 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |

use slash between G and UC

| | | | | | | |
|---|---|---|---|---|---|---|
| **L1739664-16** | | **G-UC-C4-1/P-10-1.0** | **05/22/2024 08:17** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Sam[ G/UC-C4-1/P-10-1.0 | Analyze: SVOCs, metals, PCBs<br>Hold: TPHs | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1739664-17** | | **G-UC-C4-1/P-10-2.0** | **05/22/2024 08:28** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | San G/UC-C4-1/P-10-2.0 | Analyze: VOC, SVOCs, metals<br>Hold: TPHs, PCBs | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| **L1739664-18** | | **G-UC-C4-1/P-10-3.0** | **05/22/2024 08:37** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Sam[ G/UC-C4-1/P-10-3.0 | Analyze: VOC, SVOCs, metals<br>Hold: TPHs, PCBs | | | $ 0.00 |
| SS | TERRACORE | Terra... | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1739664-19** | | **G-UC-C4-1/P-10-4.0** | **05/22/2024 08:40** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | Sam[ G/UC-C4-1/P-10-4.0 | | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | | $ 7.00 |
| **L1739664-20** | | **G-UC-C4-1/P-10-5.0** | **05/22/2024 08:45** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** | |
| SS | HOLD | San G/UC-C4-1/P-10-5.0 | Analyze: VOC, TPHs<br>Hold: SVOC, Metals, PCBs | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | | $ 15.00 |

**The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.**

| | | | | | |
|---|---|---|---|---|---|
| **L1739664-21** | | **G-UC-C4-1/P-10-8.0** | **05/22/2024 08:50** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** |
| SS | HOLD | Samp G/UC-C4-1/P-10-8.0 | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| **L1739664-22** | | **G-UC-C4-1/P-10-10.0** | **05/22/2024 08:58** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** |
| SS | HOLD | Sa G/UC-C4-1/P-10-10.0 | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOC<br>Hold: SVOC, TPHs, Metals, PCBs | | $ 15.00 |
| **L1739664-23** | | **G-UC-C4-1/P-10-18.5** | **05/22/2024 09:45** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** |
| SS | HOLD | Sar G/UC-C4-1/P-10-18.5 | Analyze: VOC and TPHs | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |
| Misc | DISPOSAL | Sample Disposal | | | $ 7.00 |
| **L1739664-24** | | **GW-4-1-13.5** | **05/22/2024 10:58** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** |
| SS | HOLD | San GW-4-13.5 | | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | Analyze: VOC and TPHs | | $ 15.00 |
| **L1739664-25** | | **GW-3-1-13.0** | **05/22/2024 00:00** | **Site: AB&1** | **Est. Due Date*: 05/31/2024 - RX** |
| SS | HOLD | Sample GW-3-13.0 | Analyze: VOC and TPHs | | $ 0.00 |
| SS | TERRACORE | Terracore 5035 kit | | | $ 15.00 |

**Information Only - Not An Invoice - Do Not Pay!** Total: $ 1,604.25

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your Project Manager.**

**The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.**

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1740224 |
| Samples Received: | 05/24/2024 |
| Project Number: | ROUX ASSOCIATES, INC |
| Description: | AB&I Redevelopment |
| Site: | AB&I FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G-F3-1-1.0 L1740224-01 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 09:40 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293529 | 1 | 05/27/24 09:59 | 05/27/24 10:05 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293345 | 1 | 05/26/24 15:37 | 05/26/24 19:05 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:42 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/05/24 13:16 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 258 | 05/23/24 09:40 | 06/07/24 12:28 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2296926 | 2 | 06/01/24 08:01 | 06/02/24 01:44 | LTB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 5 | 06/01/24 17:56 | 06/02/24 17:14 | DSH | Mt. Juliet, TN |

## G-F3-1-2.0 L1740224-02 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 09:42 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293529 | 1 | 05/27/24 09:59 | 05/27/24 10:05 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293345 | 1 | 05/26/24 15:37 | 05/26/24 19:47 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:44 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/05/24 13:20 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299810 | 56 | 05/23/24 09:42 | 06/06/24 14:57 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297114 | 4.52 | 05/23/24 09:42 | 06/02/24 17:11 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2300018 | 10 | 06/06/24 14:54 | 06/07/24 05:37 | JAS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2300018 | 50 | 06/06/24 14:54 | 06/07/24 11:09 | JAS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2296622 | 1 | 06/01/24 08:01 | 06/01/24 15:42 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 1 | 06/01/24 17:56 | 06/02/24 13:33 | DSH | Mt. Juliet, TN |

## G-F3-1-3.0 L1740224-03 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 09:44 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293529 | 1 | 05/27/24 09:59 | 05/27/24 10:05 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293345 | 1 | 05/26/24 15:37 | 05/26/24 19:50 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:46 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/05/24 13:23 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297149 | 29.3 | 05/23/24 09:44 | 06/03/24 03:01 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297114 | 4.96 | 05/23/24 09:44 | 06/02/24 17:31 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296785 | 10 | 06/02/24 14:53 | 06/03/24 19:01 | JAS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296785 | 100 | 06/02/24 14:53 | 06/04/24 06:24 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 1 | 06/01/24 17:56 | 06/02/24 12:19 | DSH | Mt. Juliet, TN |

## G-F3-1-5.0 L1740224-05 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 09:48 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297149 | 26.8 | 05/23/24 09:48 | 06/03/24 03:23 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297114 | 1 | 05/23/24 09:48 | 06/02/24 16:12 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296785 | 5 | 06/02/24 14:53 | 06/03/24 18:47 | JAS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296785 | 50 | 06/02/24 14:53 | 06/04/24 06:52 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-G4-1-1.0 L1740224-06 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 10:40 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293345 | 1 | 05/26/24 15:37 | 05/26/24 19:52 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:47 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/05/24 13:30 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 5 | 06/04/24 16:30 | 06/05/24 13:26 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2296622 | 1 | 06/01/24 08:01 | 06/01/24 15:50 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 1 | 06/01/24 17:56 | 06/02/24 11:30 | DSH | Mt. Juliet, TN |

## G-G4-1-2.0 L1740224-07 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 10:42 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293345 | 1 | 05/26/24 15:37 | 05/26/24 19:55 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:49 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/05/24 13:33 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 1.23 | 05/23/24 10:42 | 05/30/24 20:28 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 1 | 06/01/24 17:56 | 06/02/24 14:22 | DSH | Mt. Juliet, TN |

## G-G4-1-3.0 L1740224-08 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 10:44 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293345 | 1 | 05/26/24 15:37 | 05/26/24 19:57 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 5 | 06/04/24 16:30 | 06/05/24 13:36 | RDS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295233 | 29.3 | 05/23/24 10:44 | 05/30/24 04:34 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 1.23 | 05/23/24 10:44 | 05/30/24 20:50 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296785 | 1 | 06/02/24 14:53 | 06/03/24 18:18 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 1 | 06/01/24 17:56 | 06/02/24 11:55 | DSH | Mt. Juliet, TN |

## G-G4-1-4.0 L1740224-09 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 10:46 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2311827 | 1 | 06/26/24 13:38 | 06/26/24 13:44 | JAV | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2313442 | 1 | 06/27/24 16:19 | 06/27/24 20:16 | ZSA | Mt. Juliet, TN |

## G-G4-1-5.0 L1740224-10 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 10:48 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297754 | 25 | 05/23/24 10:48 | 06/03/24 17:15 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 1 | 05/23/24 10:48 | 05/30/24 21:13 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 1 | 06/03/24 07:57 | 06/03/24 13:37 | KDB | Mt. Juliet, TN |

# SAMPLE SUMMARY

## P-06-5.0 L1740224-12 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 12:50 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295233 | 25 | 05/23/24 12:50 | 05/30/24 07:51 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 1 | 05/23/24 12:50 | 05/30/24 21:35 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 10 | 06/03/24 07:57 | 06/03/24 16:23 | KDB | Mt. Juliet, TN |

## P-08-5.0 L1740224-13 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 11:50 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295233 | 25 | 05/23/24 11:50 | 05/30/24 08:14 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 1 | 05/23/24 11:50 | 05/30/24 21:57 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 1 | 06/03/24 07:57 | 06/03/24 13:51 | KDB | Mt. Juliet, TN |

## P-01-16.5 L1740224-14 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 10:55 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295674 | 1000 | 05/23/24 10:55 | 05/30/24 21:24 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 80 | 05/23/24 10:55 | 05/31/24 00:32 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 1 | 06/03/24 07:57 | 06/03/24 14:47 | KDB | Mt. Juliet, TN |

## P-01-16.0 L1740224-15 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 11:00 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295233 | 25 | 05/23/24 11:00 | 05/30/24 08:58 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 1 | 05/23/24 11:00 | 05/30/24 22:19 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297114 | 10 | 05/23/24 11:00 | 06/02/24 17:50 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 1 | 06/03/24 07:57 | 06/03/24 15:41 | KDB | Mt. Juliet, TN |

## P-02-12.5 L1740224-16 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 09:25 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293530 | 1 | 05/27/24 09:52 | 05/27/24 09:58 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295233 | 25 | 05/23/24 09:25 | 05/30/24 09:44 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 1 | 05/23/24 09:25 | 05/30/24 22:41 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297114 | 1 | 05/23/24 09:25 | 06/02/24 16:32 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 1 | 06/03/24 07:57 | 06/03/24 14:05 | KDB | Mt. Juliet, TN |

## GW-06-17.5 L1740224-17 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 14:15 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293531 | 1 | 05/27/24 09:45 | 05/27/24 09:51 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295233 | 25 | 05/23/24 14:15 | 05/30/24 10:30 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 1 | 05/23/24 14:15 | 05/30/24 23:04 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297114 | 1 | 05/23/24 14:15 | 06/02/24 16:52 | JAH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## GW-06-17.5 L1740224-17 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 14:15 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 1 | 06/03/24 07:57 | 06/03/24 14:19 | KDB | Mt. Juliet, TN |

## GW-06-12.5 L1740224-18 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 14:40 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293531 | 1 | 05/27/24 09:45 | 05/27/24 09:51 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295674 | 250 | 05/23/24 14:40 | 05/30/24 21:44 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295815 | 20 | 05/23/24 14:40 | 05/31/24 00:54 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 1 | 06/03/24 07:57 | 06/03/24 14:33 | KDB | Mt. Juliet, TN |

## TB-052324 L1740224-19 GW

Collected by: J.A./D.B. | Collected date/time: 05/23/24 12:00 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296577 | 1 | 05/31/24 23:47 | 05/31/24 23:47 | ADM | Mt. Juliet, TN |

## EB-052324 L1740224-20 GW

Collected by: J.A./D.B. | Collected date/time: 05/23/24 15:21 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293140 | 1 | 05/25/24 13:55 | 05/26/24 18:26 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293147 | 1 | 05/26/24 21:03 | 05/28/24 11:45 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296300 | 1 | 06/03/24 10:52 | 06/03/24 17:01 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296356 | 1 | 06/03/24 14:15 | 06/15/24 13:12 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296474 | 1 | 06/02/24 09:42 | 06/12/24 22:24 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294783 | 1 | 05/29/24 13:13 | 05/29/24 13:13 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296577 | 1 | 06/01/24 00:45 | 06/01/24 00:45 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2294852 | 1 | 05/29/24 18:27 | 05/30/24 09:05 | MAA | Mt. Juliet, TN |

## UC-B4-2-1.0 L1740224-21 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 13:51 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293531 | 1 | 05/27/24 09:45 | 05/27/24 09:51 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293345 | 1 | 05/26/24 15:37 | 05/26/24 20:15 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:52 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/05/24 13:43 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2296622 | 10 | 06/01/24 08:01 | 06/01/24 16:52 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 5 | 06/01/24 17:56 | 06/02/24 16:25 | DSH | Mt. Juliet, TN |

## UC-B4-2-2.0 L1740224-22 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 13:55 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293531 | 1 | 05/27/24 09:45 | 05/27/24 09:51 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293719 | 1 | 05/28/24 13:45 | 05/28/24 19:03 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:54 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/05/24 14:03 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 5 | 06/04/24 16:30 | 06/05/24 14:00 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295920 | 1 | 05/23/24 13:55 | 05/31/24 02:02 | KSD | Mt. Juliet, TN |

# SAMPLE SUMMARY

## UC-B4-2-2.0 L1740224-22 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 13:55 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2296926 | 2 | 06/01/24 08:01 | 06/02/24 01:53 | LTB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 1 | 06/01/24 17:56 | 06/02/24 14:47 | DSH | Mt. Juliet, TN |

## UC-B4-2-3.0 L1740224-23 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 14:00 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293531 | 1 | 05/27/24 09:45 | 05/27/24 09:51 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2293719 | 1 | 05/28/24 13:45 | 05/28/24 19:05 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/04/24 23:55 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298458 | 1 | 06/04/24 16:30 | 06/05/24 14:07 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297149 | 26.3 | 05/23/24 14:00 | 06/03/24 03:44 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 2 | 06/03/24 07:57 | 06/03/24 16:09 | KDB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2296790 | 1 | 06/01/24 17:56 | 06/02/24 13:57 | DSH | Mt. Juliet, TN |

## UC-B4-2-5.0 L1740224-25 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 14:11 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293531 | 1 | 05/27/24 09:45 | 05/27/24 09:51 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2295233 | 25 | 05/23/24 14:11 | 05/30/24 10:53 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295920 | 1 | 05/23/24 14:11 | 05/31/24 02:21 | KSD | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2296787 | 1 | 06/03/24 07:57 | 06/03/24 15:55 | KDB | Mt. Juliet, TN |

## UC-B4-2-10.0 L1740224-27 Solid

Collected by: J.A./D.B. | Collected date/time: 05/23/24 14:33 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2293531 | 1 | 05/27/24 09:45 | 05/27/24 09:51 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2295920 | 1 | 05/23/24 14:33 | 05/31/24 02:40 | KSD | Mt. Juliet, TN |

## GW-5-2 L1740224-28 GW

Collected by: J.A./D.B. | Collected date/time: 05/23/24 09:20 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293140 | 1 | 05/25/24 13:55 | 05/26/24 18:33 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293147 | 1 | 05/26/24 21:03 | 05/28/24 11:47 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296300 | 1 | 06/03/24 10:52 | 06/03/24 17:06 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296356 | 1 | 06/03/24 14:15 | 06/15/24 13:15 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296474 | 1 | 06/02/24 09:42 | 06/12/24 22:28 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294783 | 1 | 05/29/24 17:24 | 05/29/24 17:24 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296577 | 1 | 06/01/24 03:19 | 06/01/24 03:19 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296326 | 1 | 05/31/24 16:43 | 06/02/24 09:10 | DMG | Mt. Juliet, TN |

## P-10 L1740224-29 GW

Collected by: J.A./D.B. | Collected date/time: 05/23/24 11:25 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293140 | 1 | 05/25/24 13:55 | 05/26/24 18:36 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293147 | 1 | 05/26/24 21:03 | 05/28/24 11:49 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296300 | 1 | 06/03/24 10:52 | 06/03/24 17:08 | ZSA | Mt. Juliet, TN |

# SAMPLE SUMMARY

## P-10 L1740224-29 GW

Collected by: J.A./D.B. | Collected date/time: 05/23/24 11:25 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Metals (ICPMS) by Method 6020 | WG2296356 | 1 | 06/03/24 14:15 | 06/15/24 13:19 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296474 | 1 | 06/02/24 09:42 | 06/12/24 22:32 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294783 | 1 | 05/29/24 17:47 | 05/29/24 17:47 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296577 | 1 | 06/01/24 03:38 | 06/01/24 03:38 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2294852 | 1 | 05/29/24 18:27 | 05/30/24 09:45 | DMG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2294852 | 1 | 05/29/24 18:27 | 06/02/24 11:51 | DMG | Mt. Juliet, TN |

## DUP-1 L1740224-30 GW

Collected by: J.A./D.B. | Collected date/time: 05/23/24 12:00 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293140 | 1 | 05/25/24 13:55 | 05/26/24 18:38 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293147 | 1 | 05/26/24 21:03 | 05/28/24 11:52 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296300 | 1 | 06/03/24 10:52 | 06/03/24 17:09 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296356 | 1 | 06/03/24 14:15 | 06/15/24 13:22 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296474 | 1 | 06/02/24 09:42 | 06/12/24 22:35 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294783 | 1 | 05/29/24 18:10 | 05/29/24 18:10 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296577 | 1 | 06/01/24 03:57 | 06/01/24 03:57 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2294852 | 1 | 05/29/24 18:27 | 05/30/24 10:05 | MAA | Mt. Juliet, TN |

## GW-1-1 L1740224-31 GW

Collected by: J.A./D.B. | Collected date/time: 05/23/24 13:20 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293140 | 1 | 05/25/24 13:55 | 05/26/24 18:41 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293147 | 1 | 05/26/24 21:03 | 05/28/24 11:54 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296300 | 1 | 06/03/24 10:52 | 06/03/24 17:11 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296356 | 1 | 06/03/24 14:15 | 06/15/24 13:25 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296474 | 1 | 06/02/24 09:42 | 06/12/24 22:38 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294783 | 1 | 05/29/24 18:33 | 05/29/24 18:33 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296577 | 1 | 06/01/24 04:16 | 06/01/24 04:16 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296326 | 1 | 05/31/24 16:43 | 06/02/24 09:30 | DMG | Mt. Juliet, TN |

## GW-2-1 L1740224-32 GW

Collected by: J.A./D.B. | Collected date/time: 05/23/24 14:45 | Received date/time: 05/24/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293140 | 1 | 05/25/24 13:55 | 05/26/24 18:43 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293147 | 1 | 05/26/24 21:03 | 05/28/24 11:56 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296300 | 1 | 06/03/24 10:52 | 06/03/24 17:13 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296356 | 1 | 06/03/24 14:15 | 06/15/24 13:29 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296474 | 1 | 06/02/24 09:42 | 06/12/24 22:41 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2294783 | 1 | 05/29/24 18:56 | 05/29/24 18:56 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2296577 | 1 | 06/01/24 04:35 | 06/01/24 04:35 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2294852 | 1 | 05/29/24 18:27 | 05/30/24 10:46 | MAA | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2294852 | 1 | 05/29/24 18:27 | 06/02/24 12:11 | DMG | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/16/24 18:52
Level II Report - Version 2: 08/15/24 20:01

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

## Sample Delivery Group (SDG) Narrative

**pH outside of method requirement.**

| Lab Sample ID | Project Sample ID | Method |
|---|---|---|
| L1740224-28 | GW-5-2 | 3511/8015 |
| L1740224-31 | GW-1-1 | 3511/8015 |

# DETECTION SUMMARY

## Mercury by Method 7470A

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-5-2 | L1740224-28 | Mercury | 0.494 | | 0.100 | 0.200 | 1 | 05/26/2024 18:33 | WG2293140 |
| P-10 | L1740224-29 | Mercury | 1.32 | | 0.100 | 0.200 | 1 | 05/26/2024 18:36 | WG2293140 |
| DUP-1 | L1740224-30 | Mercury | 1.68 | | 0.100 | 0.200 | 1 | 05/26/2024 18:38 | WG2293140 |
| GW-2-1 | L1740224-32 | Mercury | 0.139 | J | 0.100 | 0.200 | 1 | 05/26/2024 18:43 | WG2293140 |

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G4-1-2.0 | L1740224-07 | Mercury | 0.556 | | 0.0234 | 0.0520 | 1 | 05/26/2024 19:55 | WG2293345 |
| G-G4-1-3.0 | L1740224-08 | Mercury | 0.0251 | J | 0.0214 | 0.0476 | 1 | 05/26/2024 19:57 | WG2293345 |
| UC-B4-2-1.0 | L1740224-21 | Mercury | 0.0706 | | 0.0197 | 0.0438 | 1 | 05/26/2024 20:15 | WG2293345 |
| UC-B4-2-3.0 | L1740224-23 | Mercury | 0.385 | | 0.0196 | 0.0436 | 1 | 05/28/2024 19:05 | WG2293719 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052324 | L1740224-20 | Cobalt,Dissolved | 1.11 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:01 | WG2296300 |
| GW-5-2 | L1740224-28 | Barium,Dissolved | 50.6 | | 0.736 | 5.00 | 1 | 06/03/2024 17:06 | WG2296300 |
| GW-5-2 | L1740224-28 | Cobalt,Dissolved | 3.82 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:06 | WG2296300 |
| GW-5-2 | L1740224-28 | Molybdenum,Dissolved | 48.1 | | 1.16 | 5.00 | 1 | 06/03/2024 17:06 | WG2296300 |
| P-10 | L1740224-29 | Barium,Dissolved | 50.0 | | 0.736 | 5.00 | 1 | 06/03/2024 17:08 | WG2296300 |
| P-10 | L1740224-29 | Cobalt,Dissolved | 1.80 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:08 | WG2296300 |
| P-10 | L1740224-29 | Molybdenum,Dissolved | 25.4 | | 1.16 | 5.00 | 1 | 06/03/2024 17:08 | WG2296300 |
| P-10 | L1740224-29 | Vanadium,Dissolved | 7.31 | J | 4.99 | 20.0 | 1 | 06/03/2024 17:08 | WG2296300 |
| DUP-1 | L1740224-30 | Barium,Dissolved | 47.1 | | 0.736 | 5.00 | 1 | 06/03/2024 17:09 | WG2296300 |
| DUP-1 | L1740224-30 | Cobalt,Dissolved | 2.88 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:09 | WG2296300 |
| DUP-1 | L1740224-30 | Molybdenum,Dissolved | 25.0 | | 1.16 | 5.00 | 1 | 06/03/2024 17:09 | WG2296300 |
| DUP-1 | L1740224-30 | Vanadium,Dissolved | 7.42 | J | 4.99 | 20.0 | 1 | 06/03/2024 17:09 | WG2296300 |
| GW-1-1 | L1740224-31 | Barium,Dissolved | 217 | | 0.736 | 5.00 | 1 | 06/03/2024 17:11 | WG2296300 |
| GW-1-1 | L1740224-31 | Cobalt,Dissolved | 2.11 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:11 | WG2296300 |
| GW-1-1 | L1740224-31 | Molybdenum,Dissolved | 5.52 | | 1.16 | 5.00 | 1 | 06/03/2024 17:11 | WG2296300 |
| GW-2-1 | L1740224-32 | Barium,Dissolved | 195 | | 0.736 | 5.00 | 1 | 06/03/2024 17:13 | WG2296300 |
| GW-2-1 | L1740224-32 | Chromium,Dissolved | 1.43 | J | 1.40 | 10.0 | 1 | 06/03/2024 17:13 | WG2296300 |
| GW-2-1 | L1740224-32 | Cobalt,Dissolved | 2.25 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:13 | WG2296300 |
| GW-2-1 | L1740224-32 | Molybdenum,Dissolved | 56.9 | | 1.16 | 5.00 | 1 | 06/03/2024 17:13 | WG2296300 |
| GW-2-1 | L1740224-32 | Vanadium,Dissolved | 7.84 | J | 4.99 | 20.0 | 1 | 06/03/2024 17:13 | WG2296300 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F3-1-1.0 | L1740224-01 | Antimony | 3.27 | | 0.570 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Barium | 193 | | 0.0892 | 0.524 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Beryllium | 0.685 | | 0.0330 | 0.209 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Cadmium | 0.398 | J | 0.0493 | 0.524 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Chromium | 43.3 | | 0.139 | 1.05 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Cobalt | 1.92 | | 0.0849 | 1.05 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Copper | 64.1 | | 0.419 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Lead | 141 | | 0.218 | 0.524 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Molybdenum | 2.99 | | 0.114 | 0.524 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Nickel | 15.6 | | 0.138 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Silver | 20.4 | | 0.133 | 1.05 | 1 | 06/05/2024 13:16 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Thallium | 1.71 | J | 0.413 | 2.09 | 1 | 06/05/2024 13:16 | WG2298458 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F3-1-1.0 | L1740224-01 | Vanadium | 13.0 | | 0.530 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-1.0 | L1740224-01 | Zinc | 99.4 | | 0.871 | 5.24 | 1 | 06/04/2024 23:42 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Antimony | 1.64 | J | 0.728 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Barium | 122 | | 0.114 | 0.670 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Beryllium | 0.417 | | 0.0422 | 0.268 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Cadmium | 0.140 | J | 0.0631 | 0.670 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Chromium | 21.1 | | 0.178 | 1.34 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Cobalt | 0.955 | J | 0.109 | 1.34 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Copper | 48.4 | | 0.536 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Lead | 33.0 | | 0.279 | 0.670 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Molybdenum | 2.51 | | 0.146 | 0.670 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Nickel | 8.01 | | 0.177 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Silver | 11.7 | | 0.170 | 1.34 | 1 | 06/05/2024 13:20 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Vanadium | 6.89 | | 0.678 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-2.0 | L1740224-02 | Zinc | 33.8 | | 1.11 | 6.70 | 1 | 06/04/2024 23:44 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Barium | 68.4 | | 0.116 | 0.682 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Beryllium | 0.252 | J | 0.0430 | 0.273 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Chromium | 10.5 | | 0.181 | 1.36 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Cobalt | 0.624 | J | 0.111 | 1.36 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Copper | 40.1 | | 0.546 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Lead | 16.2 | | 0.284 | 0.682 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Molybdenum | 2.13 | | 0.149 | 0.682 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Nickel | 4.52 | | 0.180 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Silver | 6.17 | | 0.173 | 1.36 | 1 | 06/05/2024 13:23 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Vanadium | 3.41 | | 0.690 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-F3-1-3.0 | L1740224-03 | Zinc | 15.9 | | 1.13 | 6.82 | 1 | 06/04/2024 23:46 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Antimony | 15.0 | | 0.652 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Arsenic | 6.56 | | 0.621 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Barium | 136 | | 0.102 | 0.599 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Beryllium | 0.863 | | 0.0378 | 0.240 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Cadmium | 7.79 | | 0.0564 | 0.599 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Chromium | 54.9 | | 0.159 | 1.20 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Cobalt | 5.13 | | 0.0972 | 1.20 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Copper | 69.6 | | 0.479 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Lead | 1720 | | 1.25 | 3.00 | 5 | 06/05/2024 13:26 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Molybdenum | 4.42 | | 0.131 | 0.599 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Nickel | 30.8 | | 0.158 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Silver | 13.9 | | 0.152 | 1.20 | 1 | 06/05/2024 13:30 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Thallium | 1.93 | J | 0.472 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Vanadium | 21.3 | | 0.606 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-1.0 | L1740224-06 | Zinc | 1160 | | 0.997 | 5.99 | 1 | 06/04/2024 23:47 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Antimony | 11.8 | | 0.707 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Arsenic | 4.96 | | 0.673 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Barium | 155 | | 0.111 | 0.650 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Beryllium | 0.230 | J | 0.0409 | 0.260 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Cadmium | 9.77 | | 0.0612 | 0.650 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Chromium | 24.1 | | 0.173 | 1.30 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Cobalt | 5.37 | | 0.105 | 1.30 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Copper | 331 | | 0.520 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Lead | 1760 | | 0.270 | 0.650 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Molybdenum | 1.90 | | 0.142 | 0.650 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Nickel | 30.7 | | 0.172 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Silver | 2.23 | | 0.165 | 1.30 | 1 | 06/05/2024 13:33 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Thallium | 1.10 | J | 0.512 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Vanadium | 10.2 | | 0.658 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| G-G4-1-2.0 | L1740224-07 | Zinc | 962 | | 1.08 | 6.50 | 1 | 06/04/2024 23:49 | WG2298458 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G4-1-3.0 | L1740224-08 | Antimony | 14.8 | | 3.23 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Arsenic | 8.88 | J | 3.08 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Barium | 57.6 | | 0.507 | 2.97 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Chromium | 519 | | 0.791 | 5.95 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Cobalt | 11.6 | | 0.483 | 5.95 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Copper | 210 | | 2.38 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Lead | 52.7 | | 1.24 | 2.97 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Molybdenum | 26.0 | | 0.648 | 2.97 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Nickel | 114 | | 0.785 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Silver | 17.7 | | 0.755 | 5.95 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Thallium | 8.68 | J | 2.34 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Vanadium | 126 | | 3.01 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-3.0 | L1740224-08 | Zinc | 26.5 | J | 4.95 | 29.7 | 5 | 06/05/2024 13:36 | WG2298458 |
| G-G4-1-4.0 | L1740224-09 | Nickel | 52.8 | | 0.170 | 2.57 | 1 | 06/27/2024 20:16 | WG2313442 |
| UC-B4-2-1.0 | L1740224-21 | Antimony | 1.22 | J | 0.595 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Arsenic | 7.14 | | 0.567 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Barium | 110 | | 0.0932 | 0.547 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Beryllium | 0.173 | J | 0.0345 | 0.219 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Cadmium | 0.859 | | 0.0515 | 0.547 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Chromium | 22.0 | | 0.146 | 1.09 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Cobalt | 5.96 | | 0.0888 | 1.09 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Copper | 23.3 | | 0.438 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Lead | 220 | | 0.228 | 0.547 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Molybdenum | 1.25 | | 0.119 | 0.547 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Nickel | 20.2 | | 0.144 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Silver | 4.88 | | 0.139 | 1.09 | 1 | 06/05/2024 13:43 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Thallium | 0.945 | J | 0.431 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Vanadium | 22.0 | | 0.554 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-1.0 | L1740224-21 | Zinc | 151 | | 0.911 | 5.47 | 1 | 06/04/2024 23:52 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Antimony | 9.82 | | 0.664 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Arsenic | 4.37 | | 0.633 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Barium | 560 | | 0.104 | 0.611 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Beryllium | 1.31 | | 0.0385 | 0.244 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Cadmium | 14.7 | | 0.0575 | 0.611 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Chromium | 103 | | 0.162 | 1.22 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Cobalt | 1.83 | | 0.0991 | 1.22 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Copper | 92.7 | | 0.489 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Lead | 4890 | | 1.27 | 3.05 | 5 | 06/05/2024 14:00 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Molybdenum | 7.35 | | 0.133 | 0.611 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Nickel | 19.4 | | 0.161 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Silver | 75.5 | | 0.155 | 1.22 | 1 | 06/05/2024 14:03 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Vanadium | 36.2 | | 0.618 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| UC-B4-2-2.0 | L1740224-22 | Zinc | 4510 | | 5.08 | 30.5 | 5 | 06/05/2024 14:00 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Antimony | 1.66 | J | 0.592 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Arsenic | 2.38 | | 0.564 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Barium | 130 | | 0.0928 | 0.544 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Beryllium | 0.204 | J | 0.0343 | 0.218 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Cadmium | 0.305 | J | 0.0513 | 0.544 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Chromium | 10.5 | | 0.145 | 1.09 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Cobalt | 7.63 | | 0.0883 | 1.09 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Copper | 25.8 | | 0.436 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Lead | 50.1 | | 0.227 | 0.544 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Molybdenum | 0.238 | J | 0.119 | 0.544 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Nickel | 15.1 | | 0.144 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Silver | 0.774 | B J | 0.138 | 1.09 | 1 | 06/05/2024 14:07 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Thallium | 0.851 | J | 0.429 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| UC-B4-2-3.0 | L1740224-23 | Vanadium | 18.1 | | 0.551 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| UC-B4-2-3.0 | L1740224-23 | Zinc | 90.7 | | 0.906 | 5.44 | 1 | 06/04/2024 23:55 | WG2298458 |

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052324 | L1740224-20 | Antimony | 1.84 | J | 1.03 | 4.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| GW-5-2 | L1740224-28 | Arsenic | 1.40 | J | 0.180 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Arsenic,Dissolved | 0.791 | J | 0.180 | 2.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| GW-5-2 | L1740224-28 | Barium | 138 | | 0.381 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Chromium | 10.9 | | 1.24 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Copper | 13.0 | | 1.51 | 5.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Copper,Dissolved | 2.56 | J | 1.51 | 5.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| GW-5-2 | L1740224-28 | Cobalt | 13.9 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Lead | 3.88 | | 0.849 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Molybdenum | 13.1 | | 0.348 | 5.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Nickel | 33.7 | | 0.816 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Nickel,Dissolved | 7.62 | | 0.816 | 2.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| GW-5-2 | L1740224-28 | Vanadium | 22.9 | | 0.664 | 5.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Zinc | 54.4 | | 3.02 | 25.0 | 1 | 06/12/2024 22:28 | WG2296474 |
| GW-5-2 | L1740224-28 | Zinc,Dissolved | 6.80 | J | 3.02 | 25.0 | 1 | 06/15/2024 13:15 | WG2296356 |
| P-10 | L1740224-29 | Arsenic | 3.82 | | 0.180 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Arsenic,Dissolved | 1.38 | J | 0.180 | 2.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| P-10 | L1740224-29 | Barium | 742 | | 0.381 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Beryllium | 8.59 | | 0.190 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Cadmium | 2.22 | | 0.150 | 1.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Chromium | 50.7 | | 1.24 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Copper | 100 | | 1.51 | 5.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Copper,Dissolved | 2.46 | J | 1.51 | 5.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| P-10 | L1740224-29 | Cobalt | 167 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Lead | 37.4 | | 0.849 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Molybdenum | 0.489 | J | 0.348 | 5.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Nickel | 330 | | 0.816 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Nickel,Dissolved | 5.66 | | 0.816 | 2.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| P-10 | L1740224-29 | Selenium | 0.753 | J | 0.300 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Silver | 0.0746 | J | 0.0700 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Vanadium | 121 | | 0.664 | 5.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| P-10 | L1740224-29 | Zinc | 223 | | 3.02 | 25.0 | 1 | 06/12/2024 22:32 | WG2296474 |
| DUP-1 | L1740224-30 | Arsenic | 3.75 | | 0.180 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Arsenic,Dissolved | 1.28 | J | 0.180 | 2.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| DUP-1 | L1740224-30 | Barium | 784 | | 0.381 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Beryllium | 9.33 | | 0.190 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Cadmium | 2.74 | | 0.150 | 1.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Chromium | 37.8 | | 1.24 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Copper | 83.7 | | 1.51 | 5.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Copper,Dissolved | 1.76 | J | 1.51 | 5.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| DUP-1 | L1740224-30 | Cobalt | 197 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Lead | 31.7 | | 0.849 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Molybdenum | 0.386 | J | 0.348 | 5.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Nickel | 364 | | 0.816 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Nickel,Dissolved | 4.30 | | 0.816 | 2.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| DUP-1 | L1740224-30 | Selenium | 0.773 | J | 0.300 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Silver | 0.0764 | J | 0.0700 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Vanadium | 117 | | 0.664 | 5.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| DUP-1 | L1740224-30 | Zinc | 182 | | 3.02 | 25.0 | 1 | 06/12/2024 22:35 | WG2296474 |

# DETECTION SUMMARY

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-1-1 | L1740224-31 | Arsenic | 11.6 | | 0.180 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Arsenic,Dissolved | 18.5 | | 0.180 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| GW-1-1 | L1740224-31 | Barium | 201 | | 0.381 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Beryllium | 0.301 | J | 0.190 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Cadmium | 0.320 | J | 0.150 | 1.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Chromium | 11.5 | | 1.24 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Copper | 28.4 | | 1.51 | 5.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Cobalt | 7.26 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Lead | 11.6 | | 0.849 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Molybdenum | 0.634 | J | 0.348 | 5.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Nickel | 23.0 | | 0.816 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Nickel,Dissolved | 4.62 | | 0.816 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| GW-1-1 | L1740224-31 | Selenium | 0.733 | J | 0.300 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Selenium,Dissolved | 0.604 | J | 0.300 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| GW-1-1 | L1740224-31 | Vanadium | 20.3 | | 0.664 | 5.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Zinc | 36.0 | | 3.02 | 25.0 | 1 | 06/12/2024 22:38 | WG2296474 |
| GW-1-1 | L1740224-31 | Zinc,Dissolved | 3.19 | J | 3.02 | 25.0 | 1 | 06/15/2024 13:25 | WG2296356 |
| GW-2-1 | L1740224-32 | Antimony,Dissolved | 3.88 | J | 1.03 | 4.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| GW-2-1 | L1740224-32 | Arsenic | 8.59 | | 0.180 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Arsenic,Dissolved | 13.1 | | 0.180 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| GW-2-1 | L1740224-32 | Barium | 384 | | 0.381 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Beryllium | 0.553 | J | 0.190 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Cadmium | 0.297 | J | 0.150 | 1.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Chromium | 24.5 | | 1.24 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Copper | 92.0 | | 1.51 | 5.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Copper,Dissolved | 6.36 | | 1.51 | 5.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| GW-2-1 | L1740224-32 | Cobalt | 13.6 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Lead | 38.1 | | 0.849 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Molybdenum | 14.0 | | 0.348 | 5.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Nickel | 43.7 | | 0.816 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Nickel,Dissolved | 7.36 | | 0.816 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| GW-2-1 | L1740224-32 | Selenium | 0.327 | J | 0.300 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Selenium,Dissolved | 0.327 | J | 0.300 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| GW-2-1 | L1740224-32 | Vanadium | 42.9 | | 0.664 | 5.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Zinc | 81.6 | | 3.02 | 25.0 | 1 | 06/12/2024 22:41 | WG2296474 |
| GW-2-1 | L1740224-32 | Zinc,Dissolved | 4.04 | J | 3.02 | 25.0 | 1 | 06/15/2024 13:29 | WG2296356 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052324 | L1740224-20 | TPHG C5 - C12 | 60.0 | B J | 30.4 | 100 | 1 | 05/29/2024 13:13 | WG2294783 |
| GW-5-2 | L1740224-28 | TPHG C5 - C12 | 53.7 | B J | 30.4 | 100 | 1 | 05/29/2024 17:24 | WG2294783 |
| P-10 | L1740224-29 | TPHG C5 - C12 | 72.5 | B J | 30.4 | 100 | 1 | 05/29/2024 17:47 | WG2294783 |
| DUP-1 | L1740224-30 | TPHG C5 - C12 | 83.1 | B J | 30.4 | 100 | 1 | 05/29/2024 18:10 | WG2294783 |
| GW-1-1 | L1740224-31 | TPHG C5 - C12 | 53.5 | B J | 30.4 | 100 | 1 | 05/29/2024 18:33 | WG2294783 |
| GW-2-1 | L1740224-32 | TPHG C5 - C12 | 79.4 | B J | 30.4 | 100 | 1 | 05/29/2024 18:56 | WG2294783 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F3-1-1.0 | L1740224-01 | TPHG C5 - C12 | 74.1 | Q | 9.37 | 28.2 | 258 | 06/07/2024 12:28 | WG2300368 |
| G-F3-1-2.0 | L1740224-02 | TPHG C5 - C12 | 35.3 | B | 3.05 | 9.20 | 56 | 06/06/2024 14:57 | WG2299810 |
| G-F3-1-3.0 | L1740224-03 | TPHG C5 - C12 | 41.6 | | 1.63 | 4.91 | 29.3 | 06/03/2024 03:01 | WG2297149 |
| G-F3-1-5.0 | L1740224-05 | TPHG C5 - C12 | 26.5 | | 1.48 | 4.45 | 26.8 | 06/03/2024 03:23 | WG2297149 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G4-1-3.0 | L1740224-08 | TPHG C5 - C12 | 12.1 | B | 1.31 | 3.96 | 29.3 | 05/30/2024 04:34 | WG2295233 |
| G-G4-1-5.0 | L1740224-10 | TPHG C5 - C12 | 1.75 | B J | 1.30 | 3.90 | 25 | 06/03/2024 17:15 | WG2297754 |
| P-06-5.0 | L1740224-12 | TPHG C5 - C12 | 5.01 | B | 0.974 | 2.93 | 25 | 05/30/2024 07:51 | WG2295233 |
| P-08-5.0 | L1740224-13 | TPHG C5 - C12 | 2.58 | B J | 1.34 | 4.02 | 25 | 05/30/2024 08:14 | WG2295233 |
| P-01-16.5 | L1740224-14 | TPHG C5 - C12 | 2340 | | 49.2 | 148 | 1000 | 05/30/2024 21:24 | WG2295674 |
| P-01-16.0 | L1740224-15 | TPHG C5 - C12 | 209 | | 1.27 | 3.82 | 25 | 05/30/2024 08:58 | WG2295233 |
| P-02-12.5 | L1740224-16 | TPHG C5 - C12 | 2.91 | B J | 1.33 | 3.99 | 25 | 05/30/2024 09:44 | WG2295233 |
| GW-06-17.5 | L1740224-17 | TPHG C5 - C12 | 15.3 | | 1.16 | 3.50 | 25 | 05/30/2024 10:30 | WG2295233 |
| GW-06-12.5 | L1740224-18 | TPHG C5 - C12 | 343 | | 11.6 | 35.0 | 250 | 05/30/2024 21:44 | WG2295674 |
| UC-B4-2-3.0 | L1740224-23 | TPHG C5 - C12 | 8.10 | B | 1.02 | 3.09 | 26.3 | 06/03/2024 03:44 | WG2297149 |
| UC-B4-2-5.0 | L1740224-25 | TPHG C5 - C12 | 1.91 | B J | 1.09 | 3.30 | 25 | 05/30/2024 10:53 | WG2295233 |

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

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052324 | L1740224-20 | 2-Butanone (MEK) | 1.22 | J | 1.19 | 10.0 | 1 | 06/01/2024 00:45 | WG2296577 |
| GW-5-2 | L1740224-28 | Methyl tert-butyl ether | 1.03 | | 0.101 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| P-10 | L1740224-29 | 1,1-Dichloroethane | 0.302 | J | 0.100 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| P-10 | L1740224-29 | 1,1-Dichloroethene | 0.266 | J | 0.188 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| P-10 | L1740224-29 | cis-1,2-Dichloroethene | 1.25 | | 0.126 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| P-10 | L1740224-29 | Methyl tert-butyl ether | 1.64 | | 0.101 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| P-10 | L1740224-29 | Tetrachloroethene | 5.57 | | 0.300 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| P-10 | L1740224-29 | Trichloroethene | 6.26 | | 0.190 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| DUP-1 | L1740224-30 | 1,1-Dichloroethane | 0.298 | J | 0.100 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| DUP-1 | L1740224-30 | 1,1-Dichloroethene | 0.289 | J | 0.188 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| DUP-1 | L1740224-30 | cis-1,2-Dichloroethene | 1.32 | | 0.126 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| DUP-1 | L1740224-30 | Methyl tert-butyl ether | 1.69 | | 0.101 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| DUP-1 | L1740224-30 | Tetrachloroethene | 6.10 | | 0.300 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| DUP-1 | L1740224-30 | Trichloroethene | 6.42 | | 0.190 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| GW-1-1 | L1740224-31 | 1,1-Dichloroethane | 1.27 | | 0.100 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| GW-1-1 | L1740224-31 | 1,1-Dichloroethene | 0.213 | J | 0.188 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| GW-1-1 | L1740224-31 | cis-1,2-Dichloroethene | 0.203 | J | 0.126 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| GW-1-1 | L1740224-31 | Methyl tert-butyl ether | 0.223 | J | 0.101 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| GW-1-1 | L1740224-31 | Vinyl chloride | 2.81 | | 0.234 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| GW-2-1 | L1740224-32 | Acetone | 24.8 | J | 11.3 | 50.0 | 1 | 06/01/2024 04:35 | WG2296577 |
| GW-2-1 | L1740224-32 | 1,1-Dichloroethane | 0.421 | J | 0.100 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| GW-2-1 | L1740224-32 | 2-Butanone (MEK) | 3.87 | J | 1.19 | 10.0 | 1 | 06/01/2024 04:35 | WG2296577 |
| GW-2-1 | L1740224-32 | Methyl tert-butyl ether | 0.211 | J | 0.101 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| GW-2-1 | L1740224-32 | Vinyl chloride | 1.26 | | 0.234 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F3-1-2.0 | L1740224-02 | Benzene | 0.0216 | | 0.00346 | 0.00741 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | sec-Butylbenzene | 0.0367 | J | 0.0213 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | cis-1,2-Dichloroethene | 0.0754 | | 0.00544 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | Ethylbenzene | 0.0272 | | 0.00546 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | Isopropylbenzene | 0.0200 | | 0.00315 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | p-Isopropyltoluene | 0.0311 | J | 0.0189 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | Methylene Chloride | 0.0693 | J | 0.0492 | 0.185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | Naphthalene | 0.0936 | | 0.0362 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | n-Propylbenzene | 0.0274 | J | 0.00703 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | Tetrachloroethene | 0.101 | | 0.00664 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F3-1-2.0 | L1740224-02 | Toluene | 0.0648 | | 0.00964 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | Trichloroethene | 0.0721 | | 0.00433 | 0.00741 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | 1,2,4-Trimethylbenzene | 0.0921 | | 0.0117 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | 1,2,3-Trimethylbenzene | 0.0813 | | 0.0117 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | 1,3,5-Trimethylbenzene | 0.0521 | | 0.0148 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-2.0 | L1740224-02 | Xylenes, Total | 0.211 | | 0.00652 | 0.0482 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Benzene | 0.0602 | | 0.00385 | 0.00823 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | sec-Butylbenzene | 0.0498 | J | 0.0237 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Chlorobenzene | 0.00905 | J | 0.00172 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | 1,1-Dichloroethane | 0.00905 | J | 0.00405 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | cis-1,2-Dichloroethene | 0.209 | | 0.00604 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | trans-1,2-Dichloroethene | 0.0136 | J | 0.00856 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Ethylbenzene | 0.0619 | | 0.00607 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Isopropylbenzene | 0.0834 | | 0.00350 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | p-Isopropyltoluene | 0.0401 | J | 0.0209 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Naphthalene | 0.138 | | 0.0401 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | n-Propylbenzene | 0.0564 | | 0.00781 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Tetrachloroethene | 0.0680 | | 0.00736 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Toluene | 0.131 | | 0.0107 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Trichloroethene | 0.177 | | 0.00481 | 0.00823 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | 1,2,4-Trimethylbenzene | 0.0886 | | 0.0130 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | 1,2,3-Trimethylbenzene | 0.0942 | | 0.0130 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | 1,3,5-Trimethylbenzene | 0.0574 | | 0.0165 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Vinyl chloride | 0.107 | | 0.00954 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-3.0 | L1740224-03 | Xylenes, Total | 0.362 | | 0.00723 | 0.0534 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Benzene | 0.102 | | 0.000806 | 0.00173 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | 1,1-Dichloroethene | 0.00125 | J | 0.00105 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | cis-1,2-Dichloroethene | 0.0939 | | 0.00127 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Ethylbenzene | 0.0948 | | 0.00127 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Isopropylbenzene | 0.0304 | | 0.000734 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | p-Isopropyltoluene | 0.0156 | | 0.00440 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Methylene Chloride | 0.0172 | J | 0.0115 | 0.0432 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Naphthalene | 0.0546 | | 0.00842 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | n-Propylbenzene | 0.0445 | | 0.00164 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Toluene | 0.185 | | 0.00224 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Trichloroethene | 0.00615 | | 0.00101 | 0.00173 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | 1,2,4-Trimethylbenzene | 0.192 | | 0.00273 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | 1,2,3-Trimethylbenzene | 0.0894 | | 0.00273 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | 1,3,5-Trimethylbenzene | 0.0929 | | 0.00345 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Vinyl chloride | 0.0338 | | 0.00200 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-F3-1-5.0 | L1740224-05 | Xylenes, Total | 0.190 | | 0.00152 | 0.0112 | 1 | 06/02/2024 16:12 | WG2297114 |
| G-G4-1-2.0 | L1740224-07 | Benzene | 0.00446 | | 0.000885 | 0.00190 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | 1,4-Dichlorobenzene | 0.00279 | J | 0.00133 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | Ethylbenzene | 0.00688 | | 0.00140 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | Isopropylbenzene | 0.00152 | J | 0.000807 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | p-Isopropyltoluene | 0.00489 | J | 0.00484 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | Naphthalene | 0.0524 | | 0.00926 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | n-Propylbenzene | 0.00555 | J | 0.00180 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | Tetrachloroethene | 0.0180 | | 0.00170 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | Toluene | 0.0248 | | 0.00247 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | Trichloroethene | 0.00204 | | 0.00111 | 0.00190 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | 1,2,4-Trimethylbenzene | 0.0295 | | 0.00299 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | 1,2,3-Trimethylbenzene | 0.0116 | | 0.00299 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | 1,3,5-Trimethylbenzene | 0.0107 | | 0.00379 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| G-G4-1-2.0 | L1740224-07 | Xylenes, Total | 0.0484 | | 0.00167 | 0.0123 | 1.23 | 05/30/2024 20:28 | WG2295815 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G4-1-3.0 | L1740224-08 | Benzene | 0.0234 | | 0.000771 | 0.00165 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | n-Butylbenzene | 0.0203 | J | 0.00867 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | sec-Butylbenzene | 0.0103 | J | 0.00475 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | Ethylbenzene | 0.0434 | | 0.00122 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | Isopropylbenzene | 0.0123 | | 0.000702 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | Naphthalene | 0.0201 | J | 0.00806 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | n-Propylbenzene | 0.0349 | | 0.00157 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | Toluene | 0.0670 | | 0.00215 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | 1,2,4-Trimethylbenzene | 0.00975 | | 0.00260 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | 1,2,3-Trimethylbenzene | 0.00442 | J | 0.00260 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-3.0 | L1740224-08 | Xylenes, Total | 0.0447 | | 0.00145 | 0.0107 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| G-G4-1-5.0 | L1740224-10 | Trichloroethene | 0.00334 | | 0.000903 | 0.00155 | 1 | 05/30/2024 21:13 | WG2295815 |
| P-06-5.0 | L1740224-12 | Benzene | 0.0115 | | 0.000552 | 0.00118 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | Chlorobenzene | 0.0552 | | 0.000248 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | 1,2-Dichlorobenzene | 0.00936 | | 0.000502 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | 1,1-Dichloroethane | 0.0311 | | 0.000580 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | cis-1,2-Dichloroethene | 0.00899 | | 0.000867 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | Ethylbenzene | 0.00304 | | 0.000871 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | Isopropylbenzene | 0.00146 | J | 0.000502 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | p-Isopropyltoluene | 0.00308 | J | 0.00301 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | Naphthalene | 0.00905 | J | 0.00577 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | n-Propylbenzene | 0.00151 | J | 0.00112 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | Toluene | 0.00599 | | 0.00154 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | Trichloroethene | 0.00324 | | 0.000690 | 0.00118 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | 1,2,4-Trimethylbenzene | 0.00481 | J | 0.00187 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | 1,2,3-Trimethylbenzene | 0.00470 | J | 0.00187 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | 1,3,5-Trimethylbenzene | 0.00236 | J | 0.00236 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | Vinyl chloride | 0.00372 | | 0.00137 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-06-5.0 | L1740224-12 | Xylenes, Total | 0.00689 | J | 0.00104 | 0.00768 | 1 | 05/30/2024 21:35 | WG2295815 |
| P-08-5.0 | L1740224-13 | Chlorobenzene | 0.00536 | | 0.000329 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | 1,2-Dichlorobenzene | 0.0168 | | 0.000667 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | 1,4-Dichlorobenzene | 0.00668 | J | 0.00110 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | 1,1-Dichloroethane | 0.00154 | J | 0.000770 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | cis-1,2-Dichloroethene | 0.232 | | 0.00115 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | trans-1,2-Dichloroethene | 0.00910 | | 0.00163 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | Isopropylbenzene | 0.000772 | J | 0.000667 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | Trichloroethene | 0.00524 | | 0.000916 | 0.00157 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | 1,2,4-Trimethylbenzene | 0.00303 | J | 0.00248 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | Vinyl chloride | 0.0671 | | 0.00182 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-08-5.0 | L1740224-13 | Xylenes, Total | 0.00248 | J | 0.00138 | 0.0102 | 1 | 05/30/2024 21:57 | WG2295815 |
| P-01-16.5 | L1740224-14 | Benzene | 3.56 | | 0.0564 | 0.121 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | n-Butylbenzene | 33.9 | | 0.633 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | sec-Butylbenzene | 18.1 | | 0.347 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | Ethylbenzene | 75.4 | | 0.0889 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | Isopropylbenzene | 21.6 | | 0.0512 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | Naphthalene | 49.6 | | 0.588 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | n-Propylbenzene | 77.8 | | 0.115 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | Toluene | 0.996 | | 0.157 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | 1,2,4-Trimethylbenzene | 0.220 | J | 0.190 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | 1,2,3-Trimethylbenzene | 6.30 | | 0.190 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | 1,3,5-Trimethylbenzene | 2.23 | | 0.241 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| P-01-16.5 | L1740224-14 | Xylenes, Total | 3.87 | | 0.106 | 0.784 | 80 | 05/31/2024 00:32 | WG2295815 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-01-16.0 | L1740224-15 | Benzene | 0.426 | | 0.000713 | 0.00153 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | n-Butylbenzene | 1.48 | | 0.00801 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | sec-Butylbenzene | 0.693 | | 0.0440 | 0.191 | 10 | 06/02/2024 17:50 | WG2297114 |
| P-01-16.0 | L1740224-15 | Ethylbenzene | 7.10 | | 0.0112 | 0.0382 | 10 | 06/02/2024 17:50 | WG2297114 |
| P-01-16.0 | L1740224-15 | Isopropylbenzene | 1.13 | | 0.000649 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | p-Isopropyltoluene | 0.313 | | 0.00389 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | Naphthalene | 2.84 | | 0.00745 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | n-Propylbenzene | 3.66 | | 0.0145 | 0.0763 | 10 | 06/02/2024 17:50 | WG2297114 |
| P-01-16.0 | L1740224-15 | Toluene | 0.0928 | | 0.00198 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | 1,2,4-Trimethylbenzene | 0.0197 | | 0.00241 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | 1,2,3-Trimethylbenzene | 1.06 | | 0.00241 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | 1,3,5-Trimethylbenzene | 0.290 | | 0.00305 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-01-16.0 | L1740224-15 | Xylenes, Total | 0.333 | | 0.00134 | 0.00992 | 1 | 05/30/2024 22:19 | WG2295815 |
| P-02-12.5 | L1740224-16 | Xylenes, Total | 0.00325 | J | 0.00143 | 0.0106 | 1 | 05/30/2024 22:41 | WG2295815 |
| GW-06-12.5 | L1740224-18 | n-Butylbenzene | 0.510 | | 0.147 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| GW-06-12.5 | L1740224-18 | sec-Butylbenzene | 0.474 | | 0.0808 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| GW-06-12.5 | L1740224-18 | Ethylbenzene | 0.0655 | J | 0.0206 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| GW-06-12.5 | L1740224-18 | Isopropylbenzene | 0.142 | | 0.0119 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| GW-06-12.5 | L1740224-18 | p-Isopropyltoluene | 0.116 | J | 0.0715 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| GW-06-12.5 | L1740224-18 | Naphthalene | 0.213 | J | 0.137 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| GW-06-12.5 | L1740224-18 | n-Propylbenzene | 0.188 | | 0.0266 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| UC-B4-2-2.0 | L1740224-22 | Benzene | 0.307 | | 0.000685 | 0.00147 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | 1,2-Dichlorobenzene | 0.00238 | J | 0.000624 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | 1,1-Dichloroethane | 0.0725 | | 0.000721 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | Ethylbenzene | 0.119 | | 0.00108 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | Isopropylbenzene | 0.0178 | | 0.000624 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | p-Isopropyltoluene | 0.0346 | | 0.00374 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | Naphthalene | 0.183 | | 0.00716 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | n-Propylbenzene | 0.0345 | | 0.00139 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | Toluene | 0.409 | | 0.00191 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | 1,1,1-Trichloroethane | 0.0141 | | 0.00135 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | 1,2,4-Trimethylbenzene | 0.105 | | 0.00232 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | 1,2,3-Trimethylbenzene | 0.0484 | | 0.00232 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | 1,3,5-Trimethylbenzene | 0.0420 | | 0.00294 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-2.0 | L1740224-22 | Xylenes, Total | 0.537 | | 0.00129 | 0.00954 | 1 | 05/31/2024 02:02 | WG2295920 |
| UC-B4-2-5.0 | L1740224-25 | Benzene | 0.00235 | | 0.000609 | 0.00130 | 1 | 05/31/2024 02:21 | WG2295920 |
| UC-B4-2-5.0 | L1740224-25 | Naphthalene | 0.0124 | J | 0.00636 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| UC-B4-2-5.0 | L1740224-25 | Toluene | 0.00297 | J | 0.00169 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| UC-B4-2-5.0 | L1740224-25 | Xylenes, Total | 0.00222 | J | 0.00115 | 0.00847 | 1 | 05/31/2024 02:21 | WG2295920 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052324 | L1740224-20 | C12-C22 Hydrocarbons | 36.5 | J | 33.0 | 100 | 1 | 05/30/2024 09:05 | WG2294852 |
| EB-052324 | L1740224-20 | C22-C32 Hydrocarbons | 33.9 | J | 33.0 | 100 | 1 | 05/30/2024 09:05 | WG2294852 |
| GW-5-2 | L1740224-28 | C12-C22 Hydrocarbons | 53.7 | J | 33.0 | 100 | 1 | 06/02/2024 09:10 | WG2296326 |
| GW-5-2 | L1740224-28 | C22-C32 Hydrocarbons | 114 | | 33.0 | 100 | 1 | 06/02/2024 09:10 | WG2296326 |
| P-10 | L1740224-29 | C12-C22 Hydrocarbons | 102 | | 33.0 | 100 | 1 | 05/30/2024 09:45 | WG2294852 |
| P-10 | L1740224-29 | C22-C32 Hydrocarbons | 166 | | 33.0 | 100 | 1 | 05/30/2024 09:45 | WG2294852 |
| P-10 | L1740224-29 | C32-C40 Hydrocarbons | 89.1 | J | 33.0 | 100 | 1 | 06/02/2024 11:51 | WG2294852 |
| DUP-1 | L1740224-30 | C12-C22 Hydrocarbons | 94.5 | J | 33.0 | 100 | 1 | 05/30/2024 10:05 | WG2294852 |
| DUP-1 | L1740224-30 | C22-C32 Hydrocarbons | 136 | | 33.0 | 100 | 1 | 05/30/2024 10:05 | WG2294852 |
| DUP-1 | L1740224-30 | C32-C40 Hydrocarbons | 88.7 | J | 33.0 | 100 | 1 | 05/30/2024 10:05 | WG2294852 |

# DETECTION SUMMARY

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-1-1 | L1740224-31 | C12-C22 Hydrocarbons | 122 | | 33.0 | 100 | 1 | 06/02/2024 09:30 | WG2296326 |
| GW-1-1 | L1740224-31 | C22-C32 Hydrocarbons | 247 | | 33.0 | 100 | 1 | 06/02/2024 09:30 | WG2296326 |
| GW-1-1 | L1740224-31 | C32-C40 Hydrocarbons | 91.6 | J | 33.0 | 100 | 1 | 06/02/2024 09:30 | WG2296326 |
| GW-2-1 | L1740224-32 | C12-C22 Hydrocarbons | 1670 | | 33.0 | 100 | 1 | 05/30/2024 10:46 | WG2294852 |
| GW-2-1 | L1740224-32 | C22-C32 Hydrocarbons | 700 | | 33.0 | 100 | 1 | 05/30/2024 10:46 | WG2294852 |
| GW-2-1 | L1740224-32 | C32-C40 Hydrocarbons | 311 | | 33.0 | 100 | 1 | 06/02/2024 12:11 | WG2294852 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F3-1-2.0 | L1740224-02 | C12-C22 Hydrocarbons | 874 | | 9.81 | 53.6 | 10 | 06/07/2024 05:37 | WG2300018 |
| G-F3-1-2.0 | L1740224-02 | C22-C32 Hydrocarbons | 3860 | | 89.0 | 268 | 50 | 06/07/2024 11:09 | WG2300018 |
| G-F3-1-2.0 | L1740224-02 | C32-C40 Hydrocarbons | 1000 | | 17.8 | 53.6 | 10 | 06/07/2024 05:37 | WG2300018 |
| G-F3-1-3.0 | L1740224-03 | C12-C22 Hydrocarbons | 1660 | | 10.0 | 54.6 | 10 | 06/03/2024 19:01 | WG2296785 |
| G-F3-1-3.0 | L1740224-03 | C22-C32 Hydrocarbons | 5520 | | 181 | 546 | 100 | 06/04/2024 06:24 | WG2296785 |
| G-F3-1-3.0 | L1740224-03 | C32-C40 Hydrocarbons | 1320 | | 181 | 546 | 100 | 06/04/2024 06:24 | WG2296785 |
| G-F3-1-5.0 | L1740224-05 | C12-C22 Hydrocarbons | 886 | | 4.92 | 26.8 | 5 | 06/03/2024 18:47 | WG2296785 |
| G-F3-1-5.0 | L1740224-05 | C22-C32 Hydrocarbons | 2970 | | 89.1 | 268 | 50 | 06/04/2024 06:52 | WG2296785 |
| G-F3-1-5.0 | L1740224-05 | C32-C40 Hydrocarbons | 793 | | 89.1 | 268 | 50 | 06/04/2024 06:52 | WG2296785 |
| G-G4-1-3.0 | L1740224-08 | C12-C22 Hydrocarbons | 9.22 | | 0.872 | 4.76 | 1 | 06/03/2024 18:18 | WG2296785 |
| G-G4-1-3.0 | L1740224-08 | C22-C32 Hydrocarbons | 27.0 | | 1.58 | 4.76 | 1 | 06/03/2024 18:18 | WG2296785 |
| G-G4-1-3.0 | L1740224-08 | C32-C40 Hydrocarbons | 16.2 | | 1.58 | 4.76 | 1 | 06/03/2024 18:18 | WG2296785 |
| G-G4-1-5.0 | L1740224-10 | C12-C22 Hydrocarbons | 2.22 | J | 0.928 | 5.07 | 1 | 06/03/2024 13:37 | WG2296787 |
| G-G4-1-5.0 | L1740224-10 | C22-C32 Hydrocarbons | 4.48 | J | 1.68 | 5.07 | 1 | 06/03/2024 13:37 | WG2296787 |
| P-06-5.0 | L1740224-12 | C12-C22 Hydrocarbons | 229 | | 7.95 | 43.4 | 10 | 06/03/2024 16:23 | WG2296787 |
| P-06-5.0 | L1740224-12 | C22-C32 Hydrocarbons | 1340 | | 14.4 | 43.4 | 10 | 06/03/2024 16:23 | WG2296787 |
| P-06-5.0 | L1740224-12 | C32-C40 Hydrocarbons | 936 | | 14.4 | 43.4 | 10 | 06/03/2024 16:23 | WG2296787 |
| P-08-5.0 | L1740224-13 | C12-C22 Hydrocarbons | 1.90 | J | 0.921 | 5.03 | 1 | 06/03/2024 13:51 | WG2296787 |
| P-08-5.0 | L1740224-13 | C22-C32 Hydrocarbons | 5.88 | | 1.67 | 5.03 | 1 | 06/03/2024 13:51 | WG2296787 |
| P-08-5.0 | L1740224-13 | C32-C40 Hydrocarbons | 3.28 | J | 1.67 | 5.03 | 1 | 06/03/2024 13:51 | WG2296787 |
| P-01-16.5 | L1740224-14 | C12-C22 Hydrocarbons | 37.6 | | 0.894 | 4.88 | 1 | 06/03/2024 14:47 | WG2296787 |
| P-01-16.5 | L1740224-14 | C22-C32 Hydrocarbons | 2.94 | J | 1.62 | 4.88 | 1 | 06/03/2024 14:47 | WG2296787 |
| P-01-16.0 | L1740224-15 | C12-C22 Hydrocarbons | 169 | | 0.906 | 4.95 | 1 | 06/03/2024 15:41 | WG2296787 |
| P-01-16.0 | L1740224-15 | C22-C32 Hydrocarbons | 15.6 | | 1.64 | 4.95 | 1 | 06/03/2024 15:41 | WG2296787 |
| P-01-16.0 | L1740224-15 | C32-C40 Hydrocarbons | 11.0 | | 1.64 | 4.95 | 1 | 06/03/2024 15:41 | WG2296787 |
| GW-06-17.5 | L1740224-17 | C12-C22 Hydrocarbons | 1.95 | J | 0.859 | 4.69 | 1 | 06/03/2024 14:19 | WG2296787 |
| GW-06-12.5 | L1740224-18 | C12-C22 Hydrocarbons | 17.6 | | 0.860 | 4.69 | 1 | 06/03/2024 14:33 | WG2296787 |
| UC-B4-2-3.0 | L1740224-23 | C12-C22 Hydrocarbons | 16.1 | | 1.60 | 8.71 | 2 | 06/03/2024 16:09 | WG2296787 |
| UC-B4-2-3.0 | L1740224-23 | C22-C32 Hydrocarbons | 93.9 | | 2.90 | 8.71 | 2 | 06/03/2024 16:09 | WG2296787 |
| UC-B4-2-3.0 | L1740224-23 | C32-C40 Hydrocarbons | 72.2 | | 2.90 | 8.71 | 2 | 06/03/2024 16:09 | WG2296787 |
| UC-B4-2-5.0 | L1740224-25 | C12-C22 Hydrocarbons | 2.30 | J | 0.844 | 4.61 | 1 | 06/03/2024 15:55 | WG2296787 |
| UC-B4-2-5.0 | L1740224-25 | C22-C32 Hydrocarbons | 9.75 | | 1.53 | 4.61 | 1 | 06/03/2024 15:55 | WG2296787 |
| UC-B4-2-5.0 | L1740224-25 | C32-C40 Hydrocarbons | 6.53 | | 1.53 | 4.61 | 1 | 06/03/2024 15:55 | WG2296787 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F3-1-1.0 | L1740224-01 | Fluoranthene | 0.0357 | J | 0.0315 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| G-F3-1-1.0 | L1740224-01 | Fluorene | 0.0375 | J | 0.0284 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| G-F3-1-1.0 | L1740224-01 | Naphthalene | 0.0714 | J | 0.0438 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| G-F3-1-1.0 | L1740224-01 | Phenanthrene | 0.0608 | J | 0.0347 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| G-F3-1-1.0 | L1740224-01 | Pyrene | 0.0520 | J | 0.0339 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| G-F3-1-1.0 | L1740224-01 | 2,4-Dimethylphenol | 0.0582 | J | 0.0456 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| G-F3-1-1.0 | L1740224-01 | Phenol | 0.113 | J | 0.0702 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| G-F3-1-2.0 | L1740224-02 | Fluoranthene | 0.0142 | J | 0.00805 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| G-F3-1-2.0 | L1740224-02 | Naphthalene | 0.0186 | J | 0.0112 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| G-F3-1-2.0 | L1740224-02 | Phenanthrene | 0.0204 | J | 0.00885 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| G-F3-1-2.0 | L1740224-02 | Pyrene | 0.0133 | J | 0.00868 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| G-F3-1-2.0 | L1740224-02 | 2,4-Dimethylphenol | 0.0126 | J | 0.0116 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| G-F3-1-3.0 | L1740224-03 | Fluoranthene | 0.0126 | J | 0.00820 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| G-F3-1-3.0 | L1740224-03 | Naphthalene | 0.0153 | J | 0.0114 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| G-F3-1-3.0 | L1740224-03 | Phenanthrene | 0.0179 | J | 0.00902 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| G-F3-1-3.0 | L1740224-03 | Pyrene | 0.0127 | J | 0.00884 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| G-G4-1-1.0 | L1740224-06 | Fluoranthene | 0.00731 | J | 0.00720 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| G-G4-1-1.0 | L1740224-06 | Naphthalene | 0.0138 | J | 0.0100 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Acenaphthene | 0.00893 | J | 0.00700 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Acenaphthylene | 0.00751 | J | 0.00609 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Anthracene | 0.0407 | J | 0.00771 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Benzo(a)anthracene | 0.133 | | 0.00763 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Benzo(b)fluoranthene | 0.161 | | 0.00807 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Benzo(k)fluoranthene | 0.0531 | | 0.00769 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Benzo(g,h,i)perylene | 0.0924 | | 0.00791 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Benzo(a)pyrene | 0.129 | | 0.00804 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Chrysene | 0.149 | | 0.00860 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Dibenz(a,h)anthracene | 0.0247 | J | 0.0120 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Fluoranthene | 0.218 | | 0.00781 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Fluorene | 0.00758 | J | 0.00704 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Indeno(1,2,3-cd)pyrene | 0.104 | | 0.0122 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Naphthalene | 0.0133 | J | 0.0109 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Phenanthrene | 0.121 | | 0.00859 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Di-n-butyl phthalate | 0.0291 | J | 0.0148 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-2.0 | L1740224-07 | Pyrene | 0.201 | | 0.00842 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| G-G4-1-3.0 | L1740224-08 | Benzo(a)anthracene | 0.0128 | J | 0.00698 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| G-G4-1-3.0 | L1740224-08 | Benzo(b)fluoranthene | 0.0158 | J | 0.00739 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| G-G4-1-3.0 | L1740224-08 | Benzo(g,h,i)perylene | 0.00840 | J | 0.00724 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| G-G4-1-3.0 | L1740224-08 | Benzo(a)pyrene | 0.0124 | J | 0.00736 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| G-G4-1-3.0 | L1740224-08 | Chrysene | 0.0150 | J | 0.00787 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| G-G4-1-3.0 | L1740224-08 | Fluoranthene | 0.0251 | J | 0.00715 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| G-G4-1-3.0 | L1740224-08 | Phenanthrene | 0.0191 | J | 0.00786 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| G-G4-1-3.0 | L1740224-08 | Pyrene | 0.0271 | J | 0.00771 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| UC-B4-2-1.0 | L1740224-21 | Benzo(b)fluoranthene | 0.0541 | J | 0.0340 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| UC-B4-2-1.0 | L1740224-21 | Benzo(a)pyrene | 0.0399 | J | 0.0338 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| UC-B4-2-1.0 | L1740224-21 | Fluoranthene | 0.0484 | J | 0.0329 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| UC-B4-2-1.0 | L1740224-21 | Naphthalene | 0.0502 | J | 0.0457 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| UC-B4-2-1.0 | L1740224-21 | Phenanthrene | 0.0415 | J | 0.0362 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| UC-B4-2-1.0 | L1740224-21 | Pyrene | 0.0487 | J J3 | 0.0355 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| UC-B4-2-2.0 | L1740224-22 | Acenaphthene | 0.0259 | J | 0.00658 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Anthracene | 0.137 | | 0.00724 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Benzo(a)anthracene | 0.123 | | 0.00717 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Benzo(b)fluoranthene | 0.253 | | 0.00759 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Benzo(k)fluoranthene | 0.0633 | | 0.00723 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Benzo(g,h,i)perylene | 0.0997 | | 0.00744 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Benzo(a)pyrene | 0.151 | | 0.00756 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Chrysene | 0.127 | | 0.00809 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Dibenz(a,h)anthracene | 0.0286 | J | 0.0113 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Fluoranthene | 0.228 | | 0.00734 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Fluorene | 0.0887 | | 0.00662 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Indeno(1,2,3-cd)pyrene | 0.108 | | 0.0115 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Naphthalene | 0.475 | | 0.0102 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Phenanthrene | 0.203 | | 0.00807 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Benzylbutyl phthalate | 0.109 | J | 0.0127 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Bis(2-ethylhexyl)phthalate | 0.126 | J | 0.0515 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Pyrene | 0.204 | | 0.00792 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | 2,4-Dimethylphenol | 0.257 | J | 0.0106 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-2.0 | L1740224-22 | Phenol | 0.564 | | 0.0164 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| UC-B4-2-3.0 | L1740224-23 | Benzo(b)fluoranthene | 0.00774 | J | 0.00676 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| UC-B4-2-3.0 | L1740224-23 | Benzo(g,h,i)perylene | 0.00665 | J | 0.00663 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| UC-B4-2-3.0 | L1740224-23 | Di-n-butyl phthalate | 0.173 | J | 0.0124 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.5 | | 1 | 05/27/2024 10:05 | WG2293529 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | U | J3 J6 O1 | 0.0189 | 0.0419 | 1 | 05/26/2024 19:05 | WG2293345 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 3.27 | | 0.570 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| Arsenic | U | | 0.543 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| Barium | 193 | | 0.0892 | 0.524 | 1 | 06/04/2024 23:42 | WG2298458 |
| Beryllium | 0.685 | | 0.0330 | 0.209 | 1 | 06/04/2024 23:42 | WG2298458 |
| Cadmium | 0.398 | J | 0.0493 | 0.524 | 1 | 06/04/2024 23:42 | WG2298458 |
| Chromium | 43.3 | | 0.139 | 1.05 | 1 | 06/04/2024 23:42 | WG2298458 |
| Cobalt | 1.92 | | 0.0849 | 1.05 | 1 | 06/04/2024 23:42 | WG2298458 |
| Copper | 64.1 | | 0.419 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| Lead | 141 | | 0.218 | 0.524 | 1 | 06/04/2024 23:42 | WG2298458 |
| Molybdenum | 2.99 | | 0.114 | 0.524 | 1 | 06/04/2024 23:42 | WG2298458 |
| Nickel | 15.6 | | 0.138 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| Selenium | U | | 0.800 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| Silver | 20.4 | | 0.133 | 1.05 | 1 | 06/05/2024 13:16 | WG2298458 |
| Thallium | 1.71 | J | 0.413 | 2.09 | 1 | 06/05/2024 13:16 | WG2298458 |
| Vanadium | 13.0 | | 0.530 | 2.09 | 1 | 06/04/2024 23:42 | WG2298458 |
| Zinc | 99.4 | | 0.871 | 5.24 | 1 | 06/04/2024 23:42 | WG2298458 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 74.1 | Q | 9.37 | 28.2 | 258 | 06/07/2024 12:28 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.3* | | | *77.0-120* | | *06/07/2024 12:28* | WG2300368 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0247 | 0.0712 | 2 | 06/02/2024 01:44 | WG2296926 |
| PCB 1221 | U | | 0.0247 | 0.0712 | 2 | 06/02/2024 01:44 | WG2296926 |
| PCB 1232 | U | | 0.0247 | 0.0712 | 2 | 06/02/2024 01:44 | WG2296926 |
| PCB 1242 | U | | 0.0247 | 0.0712 | 2 | 06/02/2024 01:44 | WG2296926 |
| PCB 1248 | U | | 0.0155 | 0.0356 | 2 | 06/02/2024 01:44 | WG2296926 |
| PCB 1254 | U | | 0.0155 | 0.0356 | 2 | 06/02/2024 01:44 | WG2296926 |
| PCB 1260 | U | | 0.0155 | 0.0356 | 2 | 06/02/2024 01:44 | WG2296926 |
| *(S) Decachlorobiphenyl* | *79.4* | | | *10.0-135* | | *06/02/2024 01:44* | WG2296926 |
| *(S) Tetrachloro-m-xylene* | *79.7* | | | *10.0-139* | | *06/02/2024 01:44* | WG2296926 |

**Sample Narrative:**

L1740224-01 WG2296926: Dilution due to sulfur cleanup.

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0282 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Acenaphthylene | U | | 0.0245 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Anthracene | U | | 0.0311 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Benzidine | U | | 0.328 | 8.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Benzo(a)anthracene | U | | 0.0307 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Benzo(b)fluoranthene | U | | 0.0326 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Benzo(k)fluoranthene | U | | 0.0310 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Benzo(g,h,i)perylene | U | | 0.0319 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Benzo(a)pyrene | U | | 0.0324 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Bis(2-chlorethoxy)methane | U | | 0.0524 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0576 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0754 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0613 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.0307 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0608 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Chrysene | U | | 0.0347 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Dibenz(a,h)anthracene | U | | 0.0484 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0517 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0529 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0520 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0644 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0501 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0571 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Fluoranthene | 0.0357 | J | 0.0315 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Fluorene | 0.0375 | J | 0.0284 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Hexachlorobenzene | U | | 0.0618 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0587 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Hexachlorocyclopentadiene | U | | 0.0917 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Hexachloroethane | U | | 0.0686 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0493 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Isophorone | U | | 0.0534 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Naphthalene | 0.0714 | J | 0.0438 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Nitrobenzene | U | | 0.0608 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| n-Nitrosodimethylamine | U | | 0.259 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.132 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0581 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Phenanthrene | 0.0608 | J | 0.0347 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| Benzylbutyl phthalate | U | | 0.0545 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | U | | 0.221 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Di-n-butyl phthalate | U | | 0.0597 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Diethyl phthalate | U | | 0.0576 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Dimethyl phthalate | U | | 0.370 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.118 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Pyrene | 0.0520 | J | 0.0339 | 0.175 | 5 | 06/02/2024 17:14 | WG2296790 |
| 1,2,4-Trichlorobenzene | U | | 0.0545 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0566 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2-Chlorophenol | U | | 0.0576 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0508 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2,4-Dimethylphenol | 0.0582 | J | 0.0456 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.396 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2,4-Dinitrophenol | U | | 0.407 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2-Nitrophenol | U | | 0.0623 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 4-Nitrophenol | U | | 0.0545 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Pentachlorophenol | U | | 0.0469 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| Phenol | 0.113 | J | 0.0702 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0560 | 1.75 | 5 | 06/02/2024 17:14 | WG2296790 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) 2-Fluorophenol* | *43.0* | | | *12.0-120* | | *06/02/2024 17:14* | WG2296790 |
| *(S) Phenol-d5* | *40.6* | | | *10.0-120* | | *06/02/2024 17:14* | WG2296790 |
| *(S) Nitrobenzene-d5* | *31.2* | | | *10.0-122* | | *06/02/2024 17:14* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *43.3* | | | *15.0-120* | | *06/02/2024 17:14* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *52.1* | | | *10.0-127* | | *06/02/2024 17:14* | WG2296790 |
| *(S) p-Terphenyl-d14* | *51.2* | | | *10.0-120* | | *06/02/2024 17:14* | WG2296790 |

**Sample Narrative:**

L1740224-01 WG2296790: Dilution du to matrix

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 74.7 | | 1 | 05/27/2024 10:05 | WG2293529 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0241 | 0.0536 | 1 | 05/26/2024 19:47 | WG2293345 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.64 | J | 0.728 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| Arsenic | U | | 0.694 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| Barium | 122 | | 0.114 | 0.670 | 1 | 06/04/2024 23:44 | WG2298458 |
| Beryllium | 0.417 | | 0.0422 | 0.268 | 1 | 06/04/2024 23:44 | WG2298458 |
| Cadmium | 0.140 | J | 0.0631 | 0.670 | 1 | 06/04/2024 23:44 | WG2298458 |
| Chromium | 21.1 | | 0.178 | 1.34 | 1 | 06/04/2024 23:44 | WG2298458 |
| Cobalt | 0.955 | J | 0.109 | 1.34 | 1 | 06/04/2024 23:44 | WG2298458 |
| Copper | 48.4 | | 0.536 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| Lead | 33.0 | | 0.279 | 0.670 | 1 | 06/04/2024 23:44 | WG2298458 |
| Molybdenum | 2.51 | | 0.146 | 0.670 | 1 | 06/04/2024 23:44 | WG2298458 |
| Nickel | 8.01 | | 0.177 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| Selenium | U | | 1.02 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| Silver | 11.7 | | 0.170 | 1.34 | 1 | 06/05/2024 13:20 | WG2298458 |
| Thallium | U | | 0.528 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| Vanadium | 6.89 | | 0.678 | 2.68 | 1 | 06/04/2024 23:44 | WG2298458 |
| Zinc | 33.8 | | 1.11 | 6.70 | 1 | 06/04/2024 23:44 | WG2298458 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 35.3 | B | 3.05 | 9.20 | 56 | 06/06/2024 14:57 | WG2299810 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.4* | | | *77.0-120* | | *06/06/2024 14:57* | WG2299810 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.270 | 0.370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Acrylonitrile | U | | 0.0267 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Benzene | 0.0216 | | 0.00346 | 0.00741 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Bromobenzene | U | | 0.00667 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Bromodichloromethane | U | | 0.00538 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Bromoform | U | | 0.00867 | 0.185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Bromomethane | U | | 0.0146 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| n-Butylbenzene | U | | 0.0389 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| sec-Butylbenzene | 0.0367 | J | 0.0213 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| tert-Butylbenzene | U | | 0.0144 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Carbon tetrachloride | U | | 0.00666 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Chlorobenzene | U | | 0.00156 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Chlorodibromomethane | U | | 0.00454 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Chloroethane | U | | 0.0126 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Chloroform | U | | 0.00764 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Chloromethane | U | | 0.0323 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 2-Chlorotoluene | U | | 0.00641 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 4-Chlorotoluene | U | | 0.00333 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.0289 | 0.185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2-Dibromoethane | U | | 0.00480 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Dibromomethane | U | | 0.00556 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2-Dichlorobenzene | U | | 0.00315 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,3-Dichlorobenzene | U | | 0.00444 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,4-Dichlorobenzene | U | | 0.00518 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Dichlorodifluoromethane | U | | 0.0119 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,1-Dichloroethane | U | | 0.00364 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2-Dichloroethane | U | | 0.00480 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,1-Dichloroethene | U | | 0.00449 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| cis-1,2-Dichloroethene | 0.0754 | | 0.00544 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| trans-1,2-Dichloroethene | U | | 0.00771 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2-Dichloropropane | U | | 0.0105 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,1-Dichloropropene | U | | 0.00600 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,3-Dichloropropane | U | | 0.00370 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| cis-1,3-Dichloropropene | U | | 0.00561 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| trans-1,3-Dichloropropene | U | | 0.00844 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 2,2-Dichloropropane | U | J3 | 0.0102 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Di-isopropyl ether | U | | 0.00303 | 0.00741 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Ethylbenzene | 0.0272 | | 0.00546 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Hexachloro-1,3-butadiene | U | | 0.0444 | 0.185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Isopropylbenzene | 0.0200 | | 0.00315 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| p-Isopropyltoluene | 0.0311 | J | 0.0189 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 2-Butanone (MEK) | U | | 0.471 | 0.741 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Methylene Chloride | 0.0693 | J | 0.0492 | 0.185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0169 | 0.185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Methyl tert-butyl ether | U | | 0.00259 | 0.00741 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Naphthalene | 0.0936 | | 0.0362 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| n-Propylbenzene | 0.0274 | J | 0.00703 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Styrene | U | | 0.00170 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00702 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00515 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00559 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Tetrachloroethene | 0.101 | | 0.00664 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Toluene | 0.0648 | | 0.00964 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2,3-Trichlorobenzene | U | | 0.0543 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2,4-Trichlorobenzene | U | | 0.0326 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,1,1-Trichloroethane | U | | 0.00684 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,1,2-Trichloroethane | U | | 0.00443 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Trichloroethene | 0.0721 | | 0.00433 | 0.00741 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Trichlorofluoromethane | U | | 0.00613 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2,3-Trichloropropane | U | | 0.0120 | 0.0926 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2,4-Trimethylbenzene | 0.0921 | | 0.0117 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,2,3-Trimethylbenzene | 0.0813 | | 0.0117 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| 1,3,5-Trimethylbenzene | 0.0521 | | 0.0148 | 0.0370 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Vinyl chloride | U | | 0.00859 | 0.0185 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| Xylenes, Total | 0.211 | | 0.00652 | 0.0482 | 4.52 | 06/02/2024 17:11 | WG2297114 |
| *(S) Toluene-d8* | *98.6* | | | *75.0-131* | | *06/02/2024 17:11* | WG2297114 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *67.0-138* | | *06/02/2024 17:11* | WG2297114 |
| *(S) 1,2-Dichloroethane-d4* | *96.1* | | | *70.0-130* | | *06/02/2024 17:11* | WG2297114 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 874 | | 9.81 | 53.6 | 10 | 06/07/2024 05:37 | WG2300018 |
| C22-C32 Hydrocarbons | 3860 | | 89.0 | 268 | 50 | 06/07/2024 11:09 | WG2300018 |
| C32-C40 Hydrocarbons | 1000 | | 17.8 | 53.6 | 10 | 06/07/2024 05:37 | WG2300018 |
| *(S) o-Terphenyl* | *44.8* | J7 | | *18.0-148* | | *06/07/2024 11:09* | WG2300018 |
| *(S) o-Terphenyl* | *160* | J1 | | *18.0-148* | | *06/07/2024 05:37* | WG2300018 |

**Sample Narrative:**

L1740224-02 WG2300018: Surrogate failure due to matrix interference

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0158 | 0.0455 | 1 | 06/01/2024 15:42 | WG2296622 |
| PCB 1221 | U | | 0.0158 | 0.0455 | 1 | 06/01/2024 15:42 | WG2296622 |
| PCB 1232 | U | | 0.0158 | 0.0455 | 1 | 06/01/2024 15:42 | WG2296622 |
| PCB 1242 | U | | 0.0158 | 0.0455 | 1 | 06/01/2024 15:42 | WG2296622 |
| PCB 1248 | U | | 0.00988 | 0.0228 | 1 | 06/01/2024 15:42 | WG2296622 |
| PCB 1254 | U | | 0.00988 | 0.0228 | 1 | 06/01/2024 15:42 | WG2296622 |
| PCB 1260 | U | | 0.00988 | 0.0228 | 1 | 06/01/2024 15:42 | WG2296622 |
| *(S) Decachlorobiphenyl* | *48.0* | | | *10.0-135* | | *06/01/2024 15:42* | WG2296622 |
| *(S) Tetrachloro-m-xylene* | *47.8* | | | *10.0-139* | | *06/01/2024 15:42* | WG2296622 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00722 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Acenaphthylene | U | | 0.00628 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Anthracene | U | | 0.00794 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Benzidine | U | | 0.0838 | 2.24 | 1 | 06/02/2024 13:33 | WG2296790 |
| Benzo(a)anthracene | U | | 0.00786 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Benzo(b)fluoranthene | U | | 0.00832 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Benzo(k)fluoranthene | U | | 0.00793 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Benzo(g,h,i)perylene | U | | 0.00815 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Benzo(a)pyrene | U | | 0.00829 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Bis(2-chlorethoxy)methane | U | | 0.0134 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0147 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0193 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0157 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.00783 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0155 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Chrysene | U | | 0.00886 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Dibenz(a,h)anthracene | U | | 0.0124 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0132 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0135 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0133 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0165 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0128 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0146 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Fluoranthene | 0.0142 | J | 0.00805 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Fluorene | U | | 0.00726 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Hexachlorobenzene | U | | 0.0158 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0150 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Hexachlorocyclopentadiene | U | | 0.0234 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Hexachloroethane | U | | 0.0175 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0126 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Isophorone | U | | 0.0137 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Naphthalene | 0.0186 | J | 0.0112 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Nitrobenzene | U | | 0.0155 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| n-Nitrosodimethylamine | U | | 0.0661 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.0337 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0149 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Phenanthrene | 0.0204 | J | 0.00885 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Benzylbutyl phthalate | U | | 0.0139 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0565 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Di-n-butyl phthalate | U | | 0.0153 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Diethyl phthalate | U | | 0.0147 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Dimethyl phthalate | U | | 0.0945 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.0301 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Pyrene | 0.0133 | J | 0.00868 | 0.0446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 1,2,4-Trichlorobenzene | U | | 0.0139 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0145 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2-Chlorophenol | U | | 0.0147 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0130 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2,4-Dimethylphenol | 0.0126 | J | 0.0116 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.101 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2,4-Dinitrophenol | U | | 0.104 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2-Nitrophenol | U | | 0.0159 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 4-Nitrophenol | U | | 0.0139 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Pentachlorophenol | U | | 0.0120 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| Phenol | U | | 0.0179 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0143 | 0.446 | 1 | 06/02/2024 13:33 | WG2296790 |
| *(S) 2-Fluorophenol* | *34.1* | | | *12.0-120* | | *06/02/2024 13:33* | WG2296790 |
| *(S) Phenol-d5* | *31.0* | | | *10.0-120* | | *06/02/2024 13:33* | WG2296790 |
| *(S) Nitrobenzene-d5* | *24.8* | | | *10.0-122* | | *06/02/2024 13:33* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *31.7* | | | *15.0-120* | | *06/02/2024 13:33* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *36.1* | | | *10.0-127* | | *06/02/2024 13:33* | WG2296790 |
| *(S) p-Terphenyl-d14* | *35.3* | | | *10.0-120* | | *06/02/2024 13:33* | WG2296790 |

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 73.3 | | 1 | 05/27/2024 10:05 | WG2293529 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0246 | 0.0546 | 1 | 05/26/2024 19:50 | WG2293345 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | U | | 0.742 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| Arsenic | U | | 0.707 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| Barium | 68.4 | | 0.116 | 0.682 | 1 | 06/04/2024 23:46 | WG2298458 |
| Beryllium | 0.252 | J | 0.0430 | 0.273 | 1 | 06/04/2024 23:46 | WG2298458 |
| Cadmium | U | | 0.0643 | 0.682 | 1 | 06/04/2024 23:46 | WG2298458 |
| Chromium | 10.5 | | 0.181 | 1.36 | 1 | 06/04/2024 23:46 | WG2298458 |
| Cobalt | 0.624 | J | 0.111 | 1.36 | 1 | 06/04/2024 23:46 | WG2298458 |
| Copper | 40.1 | | 0.546 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| Lead | 16.2 | | 0.284 | 0.682 | 1 | 06/04/2024 23:46 | WG2298458 |
| Molybdenum | 2.13 | | 0.149 | 0.682 | 1 | 06/04/2024 23:46 | WG2298458 |
| Nickel | 4.52 | | 0.180 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| Selenium | U | | 1.04 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| Silver | 6.17 | | 0.173 | 1.36 | 1 | 06/05/2024 13:23 | WG2298458 |
| Thallium | U | | 0.537 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| Vanadium | 3.41 | | 0.690 | 2.73 | 1 | 06/04/2024 23:46 | WG2298458 |
| Zinc | 15.9 | | 1.13 | 6.82 | 1 | 06/04/2024 23:46 | WG2298458 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 41.6 | | 1.63 | 4.91 | 29.3 | 06/03/2024 03:01 | WG2297149 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *06/03/2024 03:01* | WG2297149 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.300 | 0.411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Acrylonitrile | U | | 0.0297 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Benzene | 0.0602 | | 0.00385 | 0.00823 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Bromobenzene | U | | 0.00740 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Bromodichloromethane | U | | 0.00597 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Bromoform | U | | 0.00962 | 0.206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Bromomethane | U | | 0.0162 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| n-Butylbenzene | U | | 0.0431 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| sec-Butylbenzene | 0.0498 | J | 0.0237 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| tert-Butylbenzene | U | | 0.0160 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Carbon tetrachloride | U | | 0.00738 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Chlorobenzene | 0.00905 | J | 0.00172 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Chlorodibromomethane | U | | 0.00504 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Chloroethane | U | | 0.0140 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Chloroform | U | | 0.00847 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Chloromethane | U | | 0.0358 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 2-Chlorotoluene | U | | 0.00711 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 4-Chlorotoluene | U | | 0.00370 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.0320 | 0.206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2-Dibromoethane | U | | 0.00532 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Dibromomethane | U | | 0.00617 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2-Dichlorobenzene | U | | 0.00350 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,3-Dichlorobenzene | U | | 0.00494 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,4-Dichlorobenzene | U | | 0.00575 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Dichlorodifluoromethane | U | | 0.0133 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,1-Dichloroethane | 0.00905 | J | 0.00405 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2-Dichloroethane | U | | 0.00534 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,1-Dichloroethene | U | | 0.00499 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| cis-1,2-Dichloroethene | 0.209 | | 0.00604 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| trans-1,2-Dichloroethene | 0.0136 | J | 0.00856 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2-Dichloropropane | U | | 0.0117 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,1-Dichloropropene | U | | 0.00665 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,3-Dichloropropane | U | | 0.00411 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| cis-1,3-Dichloropropene | U | | 0.00622 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| trans-1,3-Dichloropropene | U | | 0.00937 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 2,2-Dichloropropane | U | J3 | 0.0113 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Di-isopropyl ether | U | | 0.00337 | 0.00823 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Ethylbenzene | 0.0619 | | 0.00607 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Hexachloro-1,3-butadiene | U | | 0.0494 | 0.206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Isopropylbenzene | 0.0834 | | 0.00350 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| p-Isopropyltoluene | 0.0401 | J | 0.0209 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 2-Butanone (MEK) | U | | 0.522 | 0.823 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Methylene Chloride | U | | 0.0546 | 0.206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0187 | 0.206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Methyl tert-butyl ether | U | | 0.00289 | 0.00823 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Naphthalene | 0.138 | | 0.0401 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| n-Propylbenzene | 0.0564 | | 0.00781 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Styrene | U | | 0.00189 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00779 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00572 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00620 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Tetrachloroethene | 0.0680 | | 0.00736 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Toluene | 0.131 | | 0.0107 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2,3-Trichlorobenzene | U | | 0.0604 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2,4-Trichlorobenzene | U | | 0.0362 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,1,1-Trichloroethane | U | | 0.00760 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,1,2-Trichloroethane | U | | 0.00491 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Trichloroethene | 0.177 | | 0.00481 | 0.00823 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Trichlorofluoromethane | U | | 0.00680 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2,3-Trichloropropane | U | | 0.0133 | 0.103 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2,4-Trimethylbenzene | 0.0886 | | 0.0130 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,2,3-Trimethylbenzene | 0.0942 | | 0.0130 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| 1,3,5-Trimethylbenzene | 0.0574 | | 0.0165 | 0.0411 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Vinyl chloride | 0.107 | | 0.00954 | 0.0206 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| Xylenes, Total | 0.362 | | 0.00723 | 0.0534 | 4.96 | 06/02/2024 17:31 | WG2297114 |
| *(S) Toluene-d8* | *99.5* | | | *75.0-131* | | *06/02/2024 17:31* | WG2297114 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *67.0-138* | | *06/02/2024 17:31* | WG2297114 |
| *(S) 1,2-Dichloroethane-d4* | *97.9* | | | *70.0-130* | | *06/02/2024 17:31* | WG2297114 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1660 | | 10.0 | 54.6 | 10 | 06/03/2024 19:01 | WG2296785 |
| C22-C32 Hydrocarbons | 5520 | | 181 | 546 | 100 | 06/04/2024 06:24 | WG2296785 |
| C32-C40 Hydrocarbons | 1320 | | 181 | 546 | 100 | 06/04/2024 06:24 | WG2296785 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *06/04/2024 06:24* | WG2296785 |
| *(S) o-Terphenyl* | *146* | | | *18.0-148* | | *06/03/2024 19:01* | WG2296785 |

**Sample Narrative:**

L1740224-03 WG2296785: Dilution due to matrix impact during extract concentration procedure.

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00735 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Acenaphthylene | U | | 0.00640 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Anthracene | U | | 0.00809 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Benzidine | U | | 0.0854 | 2.28 | 1 | 06/02/2024 12:19 | WG2296790 |
| Benzo(a)anthracene | U | | 0.00801 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Benzo(b)fluoranthene | U | | 0.00847 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Benzo(k)fluoranthene | U | | 0.00808 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Benzo(g,h,i)perylene | U | | 0.00831 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Benzo(a)pyrene | U | | 0.00844 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Bis(2-chlorethoxy)methane | U | | 0.0136 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0150 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0196 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0160 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.00798 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0158 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Chrysene | U | | 0.00903 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Dibenz(a,h)anthracene | U | | 0.0126 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0135 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0138 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0135 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0168 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0130 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0149 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Fluoranthene | 0.0126 | J | 0.00820 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Fluorene | U | | 0.00739 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Hexachlorobenzene | U | | 0.0161 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0153 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Hexachlorocyclopentadiene | U | | 0.0239 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Hexachloroethane | U | | 0.0179 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0128 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Isophorone | U | | 0.0139 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Naphthalene | 0.0153 | J | 0.0114 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Nitrobenzene | U | | 0.0158 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| n-Nitrosodimethylamine | U | | 0.0674 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.0344 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0151 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Phenanthrene | 0.0179 | J | 0.00902 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Benzylbutyl phthalate | U | | 0.0142 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0576 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Di-n-butyl phthalate | U | | 0.0156 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Diethyl phthalate | U | | 0.0150 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Dimethyl phthalate | U | | 0.0963 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.0307 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Pyrene | 0.0127 | J | 0.00884 | 0.0454 | 1 | 06/02/2024 12:19 | WG2296790 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | U | | 0.0142 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0147 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2-Chlorophenol | U | | 0.0150 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0132 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2,4-Dimethylphenol | U | | 0.0119 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.103 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2,4-Dinitrophenol | U | | 0.106 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2-Nitrophenol | U | | 0.0162 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 4-Nitrophenol | U | | 0.0142 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Pentachlorophenol | U | | 0.0122 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| Phenol | U | | 0.0183 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0146 | 0.454 | 1 | 06/02/2024 12:19 | WG2296790 |
| *(S) 2-Fluorophenol* | *46.8* | | | *12.0-120* | | *06/02/2024 12:19* | WG2296790 |
| *(S) Phenol-d5* | *45.5* | | | *10.0-120* | | *06/02/2024 12:19* | WG2296790 |
| *(S) Nitrobenzene-d5* | *35.8* | | | *10.0-122* | | *06/02/2024 12:19* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *51.8* | | | *15.0-120* | | *06/02/2024 12:19* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *59.8* | | | *10.0-127* | | *06/02/2024 12:19* | WG2296790 |
| *(S) p-Terphenyl-d14* | *63.0* | | | *10.0-120* | | *06/02/2024 12:19* | WG2296790 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 74.6 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 26.5 | | 1.48 | 4.45 | 26.8 | 06/03/2024 03:23 | WG2297149 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *105* | | | *77.0-120* | | *06/03/2024 03:23* | WG2297149 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0630 | 0.0863 | 1 | 06/02/2024 16:12 | WG2297114 |
| Acrylonitrile | U | | 0.00623 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| Benzene | 0.102 | | 0.000806 | 0.00173 | 1 | 06/02/2024 16:12 | WG2297114 |
| Bromobenzene | U | | 0.00155 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| Bromodichloromethane | U | | 0.00125 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Bromoform | U | | 0.00202 | 0.0432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Bromomethane | U | | 0.00340 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| n-Butylbenzene | U | | 0.00906 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| sec-Butylbenzene | U | | 0.00497 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| tert-Butylbenzene | U | | 0.00337 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| Carbon tetrachloride | U | | 0.00155 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| Chlorobenzene | U | | 0.000363 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Chlorodibromomethane | U | | 0.00106 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Chloroethane | U | | 0.00293 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| Chloroform | U | | 0.00178 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Chloromethane | U | | 0.00751 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| 2-Chlorotoluene | U | | 0.00149 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 4-Chlorotoluene | U | | 0.000777 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00673 | 0.0432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2-Dibromoethane | U | | 0.00112 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Dibromomethane | U | | 0.00129 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2-Dichlorobenzene | U | | 0.000734 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,3-Dichlorobenzene | U | | 0.00104 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,4-Dichlorobenzene | U | | 0.00121 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| Dichlorodifluoromethane | U | | 0.00278 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,1-Dichloroethane | U | | 0.000848 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2-Dichloroethane | U | | 0.00112 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,1-Dichloroethene | 0.00125 | J | 0.00105 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| cis-1,2-Dichloroethene | 0.0939 | | 0.00127 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| trans-1,2-Dichloroethene | U | | 0.00180 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2-Dichloropropane | U | | 0.00245 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,1-Dichloropropene | U | | 0.00140 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,3-Dichloropropane | U | | 0.000865 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| cis-1,3-Dichloropropene | U | | 0.00131 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| trans-1,3-Dichloropropene | U | | 0.00197 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 2,2-Dichloropropane | U | J3 | 0.00238 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Di-isopropyl ether | U | | 0.000708 | 0.00173 | 1 | 06/02/2024 16:12 | WG2297114 |
| Ethylbenzene | 0.0948 | | 0.00127 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Hexachloro-1,3-butadiene | U | | 0.0104 | 0.0432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Isopropylbenzene | 0.0304 | | 0.000734 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| p-Isopropyltoluene | 0.0156 | | 0.00440 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 2-Butanone (MEK) | U | | 0.110 | 0.173 | 1 | 06/02/2024 16:12 | WG2297114 |
| Methylene Chloride | 0.0172 | J | 0.0115 | 0.0432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00394 | 0.0432 | 1 | 06/02/2024 16:12 | WG2297114 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000604 | 0.00173 | 1 | 06/02/2024 16:12 | WG2297114 |
| Naphthalene | 0.0546 | | 0.00842 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| n-Propylbenzene | 0.0445 | | 0.00164 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| Styrene | U | | 0.000395 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00164 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00120 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00130 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Tetrachloroethene | U | | 0.00155 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Toluene | 0.185 | | 0.00224 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2,3-Trichlorobenzene | U | | 0.0127 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2,4-Trichlorobenzene | U | | 0.00760 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,1,1-Trichloroethane | U | | 0.00159 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,1,2-Trichloroethane | U | | 0.00103 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Trichloroethene | 0.00615 | | 0.00101 | 0.00173 | 1 | 06/02/2024 16:12 | WG2297114 |
| Trichlorofluoromethane | U | | 0.00143 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2,3-Trichloropropane | U | | 0.00280 | 0.0216 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2,4-Trimethylbenzene | 0.192 | | 0.00273 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,2,3-Trimethylbenzene | 0.0894 | | 0.00273 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| 1,3,5-Trimethylbenzene | 0.0929 | | 0.00345 | 0.00863 | 1 | 06/02/2024 16:12 | WG2297114 |
| Vinyl chloride | 0.0338 | | 0.00200 | 0.00432 | 1 | 06/02/2024 16:12 | WG2297114 |
| Xylenes, Total | 0.190 | | 0.00152 | 0.0112 | 1 | 06/02/2024 16:12 | WG2297114 |
| *(S) Toluene-d8* | *99.2* | | | *75.0-131* | | *06/02/2024 16:12* | WG2297114 |
| *(S) 4-Bromofluorobenzene* | *97.8* | | | *67.0-138* | | *06/02/2024 16:12* | WG2297114 |
| *(S) 1,2-Dichloroethane-d4* | *88.9* | | | *70.0-130* | | *06/02/2024 16:12* | WG2297114 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 886 | | 4.92 | 26.8 | 5 | 06/03/2024 18:47 | WG2296785 |
| C22-C32 Hydrocarbons | 2970 | | 89.1 | 268 | 50 | 06/04/2024 06:52 | WG2296785 |
| C32-C40 Hydrocarbons | 793 | | 89.1 | 268 | 50 | 06/04/2024 06:52 | WG2296785 |
| *(S) o-Terphenyl* | *131* | | | *18.0-148* | | *06/03/2024 18:47* | WG2296785 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *06/04/2024 06:52* | WG2296785 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.4 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | U | | 0.0216 | 0.0479 | 1 | 05/26/2024 19:52 | WG2293345 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 15.0 | | 0.652 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| Arsenic | 6.56 | | 0.621 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| Barium | 136 | | 0.102 | 0.599 | 1 | 06/04/2024 23:47 | WG2298458 |
| Beryllium | 0.863 | | 0.0378 | 0.240 | 1 | 06/04/2024 23:47 | WG2298458 |
| Cadmium | 7.79 | | 0.0564 | 0.599 | 1 | 06/04/2024 23:47 | WG2298458 |
| Chromium | 54.9 | | 0.159 | 1.20 | 1 | 06/04/2024 23:47 | WG2298458 |
| Cobalt | 5.13 | | 0.0972 | 1.20 | 1 | 06/04/2024 23:47 | WG2298458 |
| Copper | 69.6 | | 0.479 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| Lead | 1720 | | 1.25 | 3.00 | 5 | 06/05/2024 13:26 | WG2298458 |
| Molybdenum | 4.42 | | 0.131 | 0.599 | 1 | 06/04/2024 23:47 | WG2298458 |
| Nickel | 30.8 | | 0.158 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| Selenium | U | | 0.916 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| Silver | 13.9 | | 0.152 | 1.20 | 1 | 06/05/2024 13:30 | WG2298458 |
| Thallium | 1.93 | J | 0.472 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| Vanadium | 21.3 | | 0.606 | 2.40 | 1 | 06/04/2024 23:47 | WG2298458 |
| Zinc | 1160 | | 0.997 | 5.99 | 1 | 06/04/2024 23:47 | WG2298458 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0141 | 0.0407 | 1 | 06/01/2024 15:50 | WG2296622 |
| PCB 1221 | U | | 0.0141 | 0.0407 | 1 | 06/01/2024 15:50 | WG2296622 |
| PCB 1232 | U | | 0.0141 | 0.0407 | 1 | 06/01/2024 15:50 | WG2296622 |
| PCB 1242 | U | | 0.0141 | 0.0407 | 1 | 06/01/2024 15:50 | WG2296622 |
| PCB 1248 | U | | 0.00884 | 0.0204 | 1 | 06/01/2024 15:50 | WG2296622 |
| PCB 1254 | U | | 0.00884 | 0.0204 | 1 | 06/01/2024 15:50 | WG2296622 |
| PCB 1260 | U | | 0.00884 | 0.0204 | 1 | 06/01/2024 15:50 | WG2296622 |
| *(S) Decachlorobiphenyl* | *47.3* | | | *10.0-135* | | *06/01/2024 15:50* | WG2296622 |
| *(S) Tetrachloro-m-xylene* | *47.5* | | | *10.0-139* | | *06/01/2024 15:50* | WG2296622 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.00646 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Acenaphthylene | U | | 0.00562 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Anthracene | U | | 0.00711 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Benzidine | U | | 0.0750 | 2.00 | 1 | 06/02/2024 11:30 | WG2296790 |
| Benzo(a)anthracene | U | | 0.00704 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Benzo(b)fluoranthene | U | | 0.00744 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Benzo(k)fluoranthene | U | | 0.00710 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Benzo(g,h,i)perylene | U | | 0.00730 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Benzo(a)pyrene | U | | 0.00742 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Bis(2-chlorethoxy)methane | U | | 0.0120 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0132 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0173 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0140 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.00701 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0139 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Chrysene | U | | 0.00793 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Dibenz(a,h)anthracene | U | | 0.0111 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0118 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0121 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0119 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0147 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0114 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0131 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Fluoranthene | 0.00731 | J | 0.00720 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Fluorene | U | | 0.00650 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Hexachlorobenzene | U | | 0.0141 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0134 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Hexachlorocyclopentadiene | U | | 0.0210 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Hexachloroethane | U | | 0.0157 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0113 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Isophorone | U | | 0.0122 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Naphthalene | 0.0138 | J | 0.0100 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Nitrobenzene | U | | 0.0139 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| n-Nitrosodimethylamine | U | | 0.0592 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.0302 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0133 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Phenanthrene | U | | 0.00792 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Benzylbutyl phthalate | U | | 0.0125 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0506 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Di-n-butyl phthalate | U | | 0.0137 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Diethyl phthalate | U | | 0.0132 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Dimethyl phthalate | U | | 0.0846 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.0270 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Pyrene | U | | 0.00777 | 0.0399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 1,2,4-Trichlorobenzene | U | | 0.0125 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0129 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2-Chlorophenol | U | | 0.0132 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0116 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2,4-Dimethylphenol | U | | 0.0104 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0905 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2,4-Dinitrophenol | U | | 0.0934 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2-Nitrophenol | U | | 0.0143 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 4-Nitrophenol | U | | 0.0125 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Pentachlorophenol | U | | 0.0107 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| Phenol | U | | 0.0161 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0128 | 0.399 | 1 | 06/02/2024 11:30 | WG2296790 |
| *(S) 2-Fluorophenol* | *21.1* | | | *12.0-120* | | *06/02/2024 11:30* | WG2296790 |
| *(S) Phenol-d5* | *19.2* | | | *10.0-120* | | *06/02/2024 11:30* | WG2296790 |
| *(S) Nitrobenzene-d5* | *15.7* | | | *10.0-122* | | *06/02/2024 11:30* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *18.3* | | | *15.0-120* | | *06/02/2024 11:30* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *16.9* | | | *10.0-127* | | *06/02/2024 11:30* | WG2296790 |
| *(S) p-Terphenyl-d14* | *19.9* | | | *10.0-120* | | *06/02/2024 11:30* | WG2296790 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 77.0 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.556 | | 0.0234 | 0.0520 | 1 | 05/26/2024 19:55 | WG2293345 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 11.8 | | 0.707 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| Arsenic | 4.96 | | 0.673 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| Barium | 155 | | 0.111 | 0.650 | 1 | 06/04/2024 23:49 | WG2298458 |
| Beryllium | 0.230 | J | 0.0409 | 0.260 | 1 | 06/04/2024 23:49 | WG2298458 |
| Cadmium | 9.77 | | 0.0612 | 0.650 | 1 | 06/04/2024 23:49 | WG2298458 |
| Chromium | 24.1 | | 0.173 | 1.30 | 1 | 06/04/2024 23:49 | WG2298458 |
| Cobalt | 5.37 | | 0.105 | 1.30 | 1 | 06/04/2024 23:49 | WG2298458 |
| Copper | 331 | | 0.520 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| Lead | 1760 | | 0.270 | 0.650 | 1 | 06/04/2024 23:49 | WG2298458 |
| Molybdenum | 1.90 | | 0.142 | 0.650 | 1 | 06/04/2024 23:49 | WG2298458 |
| Nickel | 30.7 | | 0.172 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| Selenium | U | | 0.993 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| Silver | 2.23 | | 0.165 | 1.30 | 1 | 06/05/2024 13:33 | WG2298458 |
| Thallium | 1.10 | J | 0.512 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| Vanadium | 10.2 | | 0.658 | 2.60 | 1 | 06/04/2024 23:49 | WG2298458 |
| Zinc | 962 | | 1.08 | 6.50 | 1 | 06/04/2024 23:49 | WG2298458 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0693 | 0.0949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Acrylonitrile | U | | 0.00685 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Benzene | 0.00446 | | 0.000885 | 0.00190 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Bromobenzene | U | | 0.00171 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Bromodichloromethane | U | | 0.00138 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Bromoform | U | | 0.00222 | 0.0475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Bromomethane | U | | 0.00373 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| n-Butylbenzene | U | | 0.00997 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| sec-Butylbenzene | U | | 0.00546 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| tert-Butylbenzene | U | J4 | 0.00370 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Carbon tetrachloride | U | | 0.00170 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Chlorobenzene | U | | 0.000398 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Chlorodibromomethane | U | | 0.00116 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Chloroethane | U | | 0.00322 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Chloroform | U | | 0.00196 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Chloromethane | U | | 0.00825 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 2-Chlorotoluene | U | | 0.00164 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 4-Chlorotoluene | U | | 0.000855 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00740 | 0.0475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.00123 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Dibromomethane | U | | 0.00142 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2-Dichlorobenzene | U | | 0.000807 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.00114 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,4-Dichlorobenzene | 0.00279 | J | 0.00133 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00305 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,1-Dichloroethane | U | | 0.000932 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.00123 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.00115 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| cis-1,2-Dichloroethene | U | | 0.00139 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.00197 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.00270 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.00153 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.000950 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.00144 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.00216 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.00262 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Di-isopropyl ether | U | | 0.000777 | 0.00190 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Ethylbenzene | 0.00688 | | 0.00140 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Hexachloro-1,3-butadiene | U | | 0.0114 | 0.0475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Isopropylbenzene | 0.00152 | J | 0.000807 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| p-Isopropyltoluene | 0.00489 | J | 0.00484 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 0.120 | 0.190 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Methylene Chloride | U | | 0.0126 | 0.0475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00432 | 0.0475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Methyl tert-butyl ether | U | | 0.000665 | 0.00190 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Naphthalene | 0.0524 | | 0.00926 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| n-Propylbenzene | 0.00555 | J | 0.00180 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Styrene | U | | 0.000435 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00180 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00132 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00143 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Tetrachloroethene | 0.0180 | | 0.00170 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Toluene | 0.0248 | | 0.00247 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.0139 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.00835 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.00176 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.00113 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Trichloroethene | 0.00204 | | 0.00111 | 0.00190 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Trichlorofluoromethane | U | | 0.00157 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.00307 | 0.0238 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2,4-Trimethylbenzene | 0.0295 | | 0.00299 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,2,3-Trimethylbenzene | 0.0116 | | 0.00299 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| 1,3,5-Trimethylbenzene | 0.0107 | | 0.00379 | 0.00949 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Vinyl chloride | U | | 0.00221 | 0.00475 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| Xylenes, Total | 0.0484 | | 0.00167 | 0.0123 | 1.23 | 05/30/2024 20:28 | WG2295815 |
| *(S) Toluene-d8* | *93.9* | | | *75.0-131* | | *05/30/2024 20:28* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *98.7* | | | *67.0-138* | | *05/30/2024 20:28* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *86.1* | | | *70.0-130* | | *05/30/2024 20:28* | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00893 | J | 0.00700 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Acenaphthylene | 0.00751 | J | 0.00609 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Anthracene | 0.0407 | J | 0.00771 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Benzidine | U | | 0.0813 | 2.17 | 1 | 06/02/2024 14:22 | WG2296790 |
| Benzo(a)anthracene | 0.133 | | 0.00763 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Benzo(b)fluoranthene | 0.161 | | 0.00807 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Benzo(k)fluoranthene | 0.0531 | | 0.00769 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Benzo(g,h,i)perylene | 0.0924 | | 0.00791 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.129 | | 0.00804 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Bis(2-chlorethoxy)methane | U | | 0.0130 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0143 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0187 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0152 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.00760 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0151 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Chrysene | 0.149 | | 0.00860 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Dibenz(a,h)anthracene | 0.0247 | J | 0.0120 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0128 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0131 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0129 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0160 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0124 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0142 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Fluoranthene | 0.218 | | 0.00781 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Fluorene | 0.00758 | J | 0.00704 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Hexachlorobenzene | U | | 0.0153 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0146 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Hexachlorocyclopentadiene | U | | 0.0227 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Hexachloroethane | U | | 0.0170 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | 0.104 | | 0.0122 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Isophorone | U | | 0.0133 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Naphthalene | 0.0133 | J | 0.0109 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Nitrobenzene | U | | 0.0151 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| n-Nitrosodimethylamine | U | | 0.0642 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.0327 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0144 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Phenanthrene | 0.121 | | 0.00859 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Benzylbutyl phthalate | U | | 0.0135 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0548 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Di-n-butyl phthalate | 0.0291 | J | 0.0148 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Diethyl phthalate | U | | 0.0143 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Dimethyl phthalate | U | | 0.0917 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.0292 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Pyrene | 0.201 | | 0.00842 | 0.0433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 1,2,4-Trichlorobenzene | U | | 0.0135 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0140 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2-Chlorophenol | U | | 0.0143 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0126 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2,4-Dimethylphenol | U | | 0.0113 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0981 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2,4-Dinitrophenol | U | | 0.101 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2-Nitrophenol | U | | 0.0155 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 4-Nitrophenol | U | | 0.0135 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Pentachlorophenol | U | | 0.0116 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| Phenol | U | | 0.0174 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0139 | 0.433 | 1 | 06/02/2024 14:22 | WG2296790 |
| *(S) 2-Fluorophenol* | *40.9* | | | *12.0-120* | | *06/02/2024 14:22* | WG2296790 |
| *(S) Phenol-d5* | *41.8* | | | *10.0-120* | | *06/02/2024 14:22* | WG2296790 |
| *(S) Nitrobenzene-d5* | *31.5* | | | *10.0-122* | | *06/02/2024 14:22* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *41.5* | | | *15.0-120* | | *06/02/2024 14:22* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *56.5* | | | *10.0-127* | | *06/02/2024 14:22* | WG2296790 |
| *(S) p-Terphenyl-d14* | *59.4* | | | *10.0-120* | | *06/02/2024 14:22* | WG2296790 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.1 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0251 | J | 0.0214 | 0.0476 | 1 | 05/26/2024 19:57 | WG2293345 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 14.8 | | 3.23 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| Arsenic | 8.88 | J | 3.08 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| Barium | 57.6 | | 0.507 | 2.97 | 5 | 06/05/2024 13:36 | WG2298458 |
| Beryllium | U | | 0.188 | 1.19 | 5 | 06/05/2024 13:36 | WG2298458 |
| Cadmium | U | | 0.281 | 2.97 | 5 | 06/05/2024 13:36 | WG2298458 |
| Chromium | 519 | | 0.791 | 5.95 | 5 | 06/05/2024 13:36 | WG2298458 |
| Cobalt | 11.6 | | 0.483 | 5.95 | 5 | 06/05/2024 13:36 | WG2298458 |
| Copper | 210 | | 2.38 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| Lead | 52.7 | | 1.24 | 2.97 | 5 | 06/05/2024 13:36 | WG2298458 |
| Molybdenum | 26.0 | | 0.648 | 2.97 | 5 | 06/05/2024 13:36 | WG2298458 |
| Nickel | 114 | | 0.785 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| Selenium | U | | 4.54 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| Silver | 17.7 | | 0.755 | 5.95 | 5 | 06/05/2024 13:36 | WG2298458 |
| Thallium | 8.68 | J | 2.34 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| Vanadium | 126 | | 3.01 | 11.9 | 5 | 06/05/2024 13:36 | WG2298458 |
| Zinc | 26.5 | J | 4.95 | 29.7 | 5 | 06/05/2024 13:36 | WG2298458 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 12.1 | B | 1.31 | 3.96 | 29.3 | 05/30/2024 04:34 | WG2295233 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.8* | | | *77.0-120* | | *05/30/2024 04:34* | WG2295233 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0603 | 0.0826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Acrylonitrile | U | | 0.00596 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Benzene | 0.0234 | | 0.000771 | 0.00165 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Bromobenzene | U | | 0.00149 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Bromodichloromethane | U | | 0.00120 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Bromoform | U | | 0.00193 | 0.0414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Bromomethane | U | | 0.00325 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| n-Butylbenzene | 0.0203 | J | 0.00867 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| sec-Butylbenzene | 0.0103 | J | 0.00475 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| tert-Butylbenzene | U | J4 | 0.00322 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Carbon tetrachloride | U | | 0.00148 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Chlorobenzene | U | | 0.000346 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Chlorodibromomethane | U | | 0.00101 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Chloroethane | U | | 0.00281 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Chloroform | U | | 0.00171 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Chloromethane | U | | 0.00718 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 2-Chlorotoluene | U | | 0.00142 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 4-Chlorotoluene | U | | 0.000744 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00644 | 0.0414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.00107 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Dibromomethane | U | | 0.00124 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2-Dichlorobenzene | U | | 0.000702 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.000991 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,4-Dichlorobenzene | U | | 0.00116 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.00266 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,1-Dichloroethane | U | | 0.000811 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.00107 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.00100 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| cis-1,2-Dichloroethene | U | | 0.00121 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.00172 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.00235 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.00134 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.000827 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.00125 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.00188 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.00228 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Di-isopropyl ether | U | | 0.000677 | 0.00165 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Ethylbenzene | 0.0434 | | 0.00122 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Hexachloro-1,3-butadiene | U | | 0.00991 | 0.0414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Isopropylbenzene | 0.0123 | | 0.000702 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| p-Isopropyltoluene | U | | 0.00422 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 0.105 | 0.165 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Methylene Chloride | U | | 0.0110 | 0.0414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00376 | 0.0414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Methyl tert-butyl ether | U | | 0.000579 | 0.00165 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Naphthalene | 0.0201 | J | 0.00806 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| n-Propylbenzene | 0.0349 | | 0.00157 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Styrene | U | | 0.000379 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00157 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00115 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00124 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Tetrachloroethene | U | | 0.00148 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Toluene | 0.0670 | | 0.00215 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.0121 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.00726 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.00153 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.000986 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Trichloroethene | U | | 0.000964 | 0.00165 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Trichlorofluoromethane | U | | 0.00137 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.00267 | 0.0207 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2,4-Trimethylbenzene | 0.00975 | | 0.00260 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,2,3-Trimethylbenzene | 0.00442 | J | 0.00260 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| 1,3,5-Trimethylbenzene | U | | 0.00330 | 0.00826 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Vinyl chloride | U | | 0.00192 | 0.00414 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| Xylenes, Total | 0.0447 | | 0.00145 | 0.0107 | 1.23 | 05/30/2024 20:50 | WG2295815 |
| *(S) Toluene-d8* | *96.9* | | | *75.0-131* | | *05/30/2024 20:50* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *91.8* | | | *67.0-138* | | *05/30/2024 20:50* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *86.0* | | | *70.0-130* | | *05/30/2024 20:50* | WG2295815 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 9.22 | | 0.872 | 4.76 | 1 | 06/03/2024 18:18 | WG2296785 |
| C22-C32 Hydrocarbons | 27.0 | | 1.58 | 4.76 | 1 | 06/03/2024 18:18 | WG2296785 |
| C32-C40 Hydrocarbons | 16.2 | | 1.58 | 4.76 | 1 | 06/03/2024 18:18 | WG2296785 |
| *(S) o-Terphenyl* | *54.2* | | | *18.0-148* | | *06/03/2024 18:18* | WG2296785 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00641 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Acenaphthylene | U | | 0.00558 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Anthracene | U | | 0.00705 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Benzidine | U | | 0.0745 | 1.99 | 1 | 06/02/2024 11:55 | WG2296790 |
| Benzo(a)anthracene | 0.0128 | J | 0.00698 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Benzo(b)fluoranthene | 0.0158 | J | 0.00739 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Benzo(k)fluoranthene | U | | 0.00704 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Benzo(g,h,i)perylene | 0.00840 | J | 0.00724 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Benzo(a)pyrene | 0.0124 | J | 0.00736 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Bis(2-chlorethoxy)methane | U | | 0.0119 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0131 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0171 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0139 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.00696 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0138 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Chrysene | 0.0150 | J | 0.00787 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Dibenz(a,h)anthracene | U | | 0.0110 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0117 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0120 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0118 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0146 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0114 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0130 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Fluoranthene | 0.0251 | J | 0.00715 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Fluorene | U | | 0.00645 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Hexachlorobenzene | U | | 0.0140 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0133 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Hexachlorocyclopentadiene | U | | 0.0208 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Hexachloroethane | U | | 0.0156 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0112 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Isophorone | U | | 0.0121 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Naphthalene | U | | 0.00994 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Nitrobenzene | U | | 0.0138 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| n-Nitrosodimethylamine | U | | 0.0588 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.0300 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0132 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Phenanthrene | 0.0191 | J | 0.00786 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Benzylbutyl phthalate | U | | 0.0124 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0502 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Di-n-butyl phthalate | U | | 0.0136 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Diethyl phthalate | U | | 0.0131 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Dimethyl phthalate | U | | 0.0840 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.0268 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Pyrene | 0.0271 | J | 0.00771 | 0.0396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 1,2,4-Trichlorobenzene | U | | 0.0124 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0128 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2-Chlorophenol | U | | 0.0131 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0115 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0103 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0898 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2,4-Dinitrophenol | U | | 0.0926 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2-Nitrophenol | U | | 0.0142 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 4-Nitrophenol | U | | 0.0124 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Pentachlorophenol | U | | 0.0107 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| Phenol | U | | 0.0159 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0127 | 0.396 | 1 | 06/02/2024 11:55 | WG2296790 |
| *(S) 2-Fluorophenol* | *54.8* | | | *12.0-120* | | *06/02/2024 11:55* | WG2296790 |
| *(S) Phenol-d5* | *51.8* | | | *10.0-120* | | *06/02/2024 11:55* | WG2296790 |
| *(S) Nitrobenzene-d5* | *42.3* | | | *10.0-122* | | *06/02/2024 11:55* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *48.3* | | | *15.0-120* | | *06/02/2024 11:55* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *57.6* | | | *10.0-127* | | *06/02/2024 11:55* | WG2296790 |
| *(S) p-Terphenyl-d14* | *57.1* | | | *10.0-120* | | *06/02/2024 11:55* | WG2296790 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.7 | | 1 | 06/26/2024 13:44 | WG2311827 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Nickel | 52.8 | | 0.170 | 2.57 | 1 | 06/27/2024 20:16 | WG2313442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.0 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.75 | B J | 1.30 | 3.90 | 25 | 06/03/2024 17:15 | WG2297754 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.2* | | | *77.0-120* | | *06/03/2024 17:15* | WG2297754 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0565 | 0.0773 | 1 | 05/30/2024 21:13 | WG2295815 |
| Acrylonitrile | U | | 0.00558 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| Benzene | U | | 0.000722 | 0.00155 | 1 | 05/30/2024 21:13 | WG2295815 |
| Bromobenzene | U | | 0.00139 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| Bromodichloromethane | U | | 0.00112 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Bromoform | U | | 0.00181 | 0.0387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Bromomethane | U | | 0.00305 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| n-Butylbenzene | U | | 0.00812 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| sec-Butylbenzene | U | | 0.00446 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| tert-Butylbenzene | U | J4 | 0.00302 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| Carbon tetrachloride | U | | 0.00139 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| Chlorobenzene | U | | 0.000325 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Chlorodibromomethane | U | | 0.000947 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Chloroethane | U | | 0.00263 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| Chloroform | U | | 0.00159 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Chloromethane | U | | 0.00673 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| 2-Chlorotoluene | U | | 0.00134 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 4-Chlorotoluene | U | | 0.000696 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00603 | 0.0387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.00100 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Dibromomethane | U | | 0.00116 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2-Dichlorobenzene | U | | 0.000657 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.000928 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,4-Dichlorobenzene | U | | 0.00108 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.00249 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,1-Dichloroethane | U | | 0.000760 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.00100 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.000937 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| cis-1,2-Dichloroethene | U | | 0.00114 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.00161 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.00220 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.00125 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.000775 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.00117 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.00176 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.00213 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Di-isopropyl ether | U | | 0.000634 | 0.00155 | 1 | 05/30/2024 21:13 | WG2295815 |
| Ethylbenzene | U | | 0.00114 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Hexachloro-1,3-butadiene | U | | 0.00928 | 0.0387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Isopropylbenzene | U | | 0.000657 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| p-Isopropyltoluene | U | | 0.00394 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 0.0982 | 0.155 | 1 | 05/30/2024 21:13 | WG2295815 |
| Methylene Chloride | U | | 0.0103 | 0.0387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00353 | 0.0387 | 1 | 05/30/2024 21:13 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000541 | 0.00155 | 1 | 05/30/2024 21:13 | WG2295815 |
| Naphthalene | U | | 0.00755 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| n-Propylbenzene | U | | 0.00147 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| Styrene | U | | 0.000354 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00147 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00108 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00117 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Tetrachloroethene | U | | 0.00139 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Toluene | U | | 0.00201 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.0113 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.00681 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.00143 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.000924 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Trichloroethene | 0.00334 | | 0.000903 | 0.00155 | 1 | 05/30/2024 21:13 | WG2295815 |
| Trichlorofluoromethane | U | | 0.00128 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.00251 | 0.0193 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2,4-Trimethylbenzene | U | | 0.00244 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,2,3-Trimethylbenzene | U | | 0.00244 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| 1,3,5-Trimethylbenzene | U | | 0.00309 | 0.00773 | 1 | 05/30/2024 21:13 | WG2295815 |
| Vinyl chloride | U | | 0.00179 | 0.00387 | 1 | 05/30/2024 21:13 | WG2295815 |
| Xylenes, Total | U | | 0.00136 | 0.0101 | 1 | 05/30/2024 21:13 | WG2295815 |
| *(S) Toluene-d8* | *97.8* | | | *75.0-131* | | *05/30/2024 21:13* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *67.0-138* | | *05/30/2024 21:13* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *86.1* | | | *70.0-130* | | *05/30/2024 21:13* | WG2295815 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.22 | J | 0.928 | 5.07 | 1 | 06/03/2024 13:37 | WG2296787 |
| C22-C32 Hydrocarbons | 4.48 | J | 1.68 | 5.07 | 1 | 06/03/2024 13:37 | WG2296787 |
| C32-C40 Hydrocarbons | U | | 1.68 | 5.07 | 1 | 06/03/2024 13:37 | WG2296787 |
| *(S) o-Terphenyl* | *47.0* | | | *18.0-148* | | *06/03/2024 13:37* | WG2296787 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.2 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 5.01 | B | 0.974 | 2.93 | 25 | 05/30/2024 07:51 | WG2295233 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.0* | | | *77.0-120* | | *05/30/2024 07:51* | WG2295233 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0431 | 0.0591 | 1 | 05/30/2024 21:35 | WG2295815 |
| Acrylonitrile | U | | 0.00426 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| Benzene | 0.0115 | | 0.000552 | 0.00118 | 1 | 05/30/2024 21:35 | WG2295815 |
| Bromobenzene | U | | 0.00106 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| Bromodichloromethane | U | | 0.000857 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Bromoform | U | | 0.00138 | 0.0295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Bromomethane | U | | 0.00233 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| n-Butylbenzene | U | | 0.00620 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| sec-Butylbenzene | U | | 0.00340 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| tert-Butylbenzene | U | J4 | 0.00230 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| Carbon tetrachloride | U | | 0.00106 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| Chlorobenzene | 0.0552 | | 0.000248 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Chlorodibromomethane | U | | 0.000723 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Chloroethane | U | | 0.00201 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| Chloroform | U | | 0.00122 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Chloromethane | U | | 0.00514 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| 2-Chlorotoluene | U | | 0.00102 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 4-Chlorotoluene | U | | 0.000532 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00461 | 0.0295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.000766 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Dibromomethane | U | | 0.000886 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2-Dichlorobenzene | 0.00936 | | 0.000502 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.000709 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,4-Dichlorobenzene | U | | 0.000827 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.00190 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,1-Dichloroethane | 0.0311 | | 0.000580 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.000767 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.000716 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| cis-1,2-Dichloroethene | 0.00899 | | 0.000867 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.00123 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.00168 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.000956 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.000592 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.000894 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.00135 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.00163 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Di-isopropyl ether | U | | 0.000484 | 0.00118 | 1 | 05/30/2024 21:35 | WG2295815 |
| Ethylbenzene | 0.00304 | | 0.000871 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Hexachloro-1,3-butadiene | U | | 0.00709 | 0.0295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Isopropylbenzene | 0.00146 | J | 0.000502 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| p-Isopropyltoluene | 0.00308 | J | 0.00301 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 0.0750 | 0.118 | 1 | 05/30/2024 21:35 | WG2295815 |
| Methylene Chloride | U | | 0.00784 | 0.0295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00269 | 0.0295 | 1 | 05/30/2024 21:35 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000413 | 0.00118 | 1 | 05/30/2024 21:35 | WG2295815 |
| Naphthalene | 0.00905 | J | 0.00577 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| n-Propylbenzene | 0.00151 | J | 0.00112 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| Styrene | U | | 0.000271 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00112 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000821 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000891 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Tetrachloroethene | U | | 0.00106 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Toluene | 0.00599 | | 0.00154 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.00866 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.00520 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.00109 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.000705 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Trichloroethene | 0.00324 | | 0.000690 | 0.00118 | 1 | 05/30/2024 21:35 | WG2295815 |
| Trichlorofluoromethane | U | | 0.000977 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.00191 | 0.0148 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2,4-Trimethylbenzene | 0.00481 | J | 0.00187 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,2,3-Trimethylbenzene | 0.00470 | J | 0.00187 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| 1,3,5-Trimethylbenzene | 0.00236 | J | 0.00236 | 0.00591 | 1 | 05/30/2024 21:35 | WG2295815 |
| Vinyl chloride | 0.00372 | | 0.00137 | 0.00295 | 1 | 05/30/2024 21:35 | WG2295815 |
| Xylenes, Total | 0.00689 | J | 0.00104 | 0.00768 | 1 | 05/30/2024 21:35 | WG2295815 |
| *(S) Toluene-d8* | *94.6* | | | *75.0-131* | | *05/30/2024 21:35* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *92.9* | | | *67.0-138* | | *05/30/2024 21:35* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *83.1* | | | *70.0-130* | | *05/30/2024 21:35* | WG2295815 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 229 | | 7.95 | 43.4 | 10 | 06/03/2024 16:23 | WG2296787 |
| C22-C32 Hydrocarbons | 1340 | | 14.4 | 43.4 | 10 | 06/03/2024 16:23 | WG2296787 |
| C32-C40 Hydrocarbons | 936 | | 14.4 | 43.4 | 10 | 06/03/2024 16:23 | WG2296787 |
| *(S) o-Terphenyl* | *94.9* | | | *18.0-148* | | *06/03/2024 16:23* | WG2296787 |

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.6 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.58 | B J | 1.34 | 4.02 | 25 | 05/30/2024 08:14 | WG2295233 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *05/30/2024 08:14* | WG2295233 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0572 | 0.0784 | 1 | 05/30/2024 21:57 | WG2295815 |
| Acrylonitrile | U | | 0.00566 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| Benzene | U | | 0.000732 | 0.00157 | 1 | 05/30/2024 21:57 | WG2295815 |
| Bromobenzene | U | | 0.00141 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| Bromodichloromethane | U | | 0.00114 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Bromoform | U | | 0.00184 | 0.0392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Bromomethane | U | | 0.00309 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| n-Butylbenzene | U | | 0.00823 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| sec-Butylbenzene | U | | 0.00452 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| tert-Butylbenzene | U | J4 | 0.00306 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| Carbon tetrachloride | U | | 0.00141 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| Chlorobenzene | 0.00536 | | 0.000329 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Chlorodibromomethane | U | | 0.000960 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Chloroethane | U | | 0.00267 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| Chloroform | U | | 0.00162 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Chloromethane | U | | 0.00682 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| 2-Chlorotoluene | U | | 0.00136 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 4-Chlorotoluene | U | | 0.000706 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00612 | 0.0392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.00102 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Dibromomethane | U | | 0.00118 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2-Dichlorobenzene | 0.0168 | | 0.000667 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.000941 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,4-Dichlorobenzene | 0.00668 | J | 0.00110 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.00253 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,1-Dichloroethane | 0.00154 | J | 0.000770 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.00102 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.000950 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| cis-1,2-Dichloroethene | 0.232 | | 0.00115 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| trans-1,2-Dichloroethene | 0.00910 | | 0.00163 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.00223 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.00127 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.000786 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.00119 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.00179 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.00216 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Di-isopropyl ether | U | | 0.000643 | 0.00157 | 1 | 05/30/2024 21:57 | WG2295815 |
| Ethylbenzene | U | | 0.00116 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Hexachloro-1,3-butadiene | U | | 0.00941 | 0.0392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Isopropylbenzene | 0.000772 | J | 0.000667 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| p-Isopropyltoluene | U | | 0.00400 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 0.0996 | 0.157 | 1 | 05/30/2024 21:57 | WG2295815 |
| Methylene Chloride | U | | 0.0104 | 0.0392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00358 | 0.0392 | 1 | 05/30/2024 21:57 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000549 | 0.00157 | 1 | 05/30/2024 21:57 | WG2295815 |
| Naphthalene | U | | 0.00765 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| n-Propylbenzene | U | | 0.00149 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| Styrene | U | | 0.000359 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00149 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00109 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00118 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Tetrachloroethene | U | | 0.00141 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Toluene | U | | 0.00204 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.0115 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.00690 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.00145 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.000936 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Trichloroethene | 0.00524 | | 0.000916 | 0.00157 | 1 | 05/30/2024 21:57 | WG2295815 |
| Trichlorofluoromethane | U | | 0.00130 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.00254 | 0.0196 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2,4-Trimethylbenzene | 0.00303 | J | 0.00248 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,2,3-Trimethylbenzene | U | | 0.00248 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| 1,3,5-Trimethylbenzene | U | | 0.00314 | 0.00784 | 1 | 05/30/2024 21:57 | WG2295815 |
| Vinyl chloride | 0.0671 | | 0.00182 | 0.00392 | 1 | 05/30/2024 21:57 | WG2295815 |
| Xylenes, Total | 0.00248 | J | 0.00138 | 0.0102 | 1 | 05/30/2024 21:57 | WG2295815 |
| *(S) Toluene-d8* | *97.7* | | | *75.0-131* | | *05/30/2024 21:57* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *95.5* | | | *67.0-138* | | *05/30/2024 21:57* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *85.3* | | | *70.0-130* | | *05/30/2024 21:57* | WG2295815 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.90 | J | 0.921 | 5.03 | 1 | 06/03/2024 13:51 | WG2296787 |
| C22-C32 Hydrocarbons | 5.88 | | 1.67 | 5.03 | 1 | 06/03/2024 13:51 | WG2296787 |
| C32-C40 Hydrocarbons | 3.28 | J | 1.67 | 5.03 | 1 | 06/03/2024 13:51 | WG2296787 |
| *(S) o-Terphenyl* | *39.6* | | | *18.0-148* | | *06/03/2024 13:51* | WG2296787 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2340 | | 49.2 | 148 | 1000 | 05/30/2024 21:24 | WG2295674 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *05/30/2024 21:24* | WG2295674 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 4.40 | 6.03 | 80 | 05/31/2024 00:32 | WG2295815 |
| Acrylonitrile | U | | 0.436 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| Benzene | 3.56 | | 0.0564 | 0.121 | 80 | 05/31/2024 00:32 | WG2295815 |
| Bromobenzene | U | | 0.109 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| Bromodichloromethane | U | | 0.0874 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Bromoform | U | | 0.141 | 3.01 | 80 | 05/31/2024 00:32 | WG2295815 |
| Bromomethane | U | | 0.238 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| n-Butylbenzene | 33.9 | | 0.633 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| sec-Butylbenzene | 18.1 | | 0.347 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| tert-Butylbenzene | U | J4 | 0.235 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| Carbon tetrachloride | U | | 0.108 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| Chlorobenzene | U | | 0.0253 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Chlorodibromomethane | U | | 0.0739 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Chloroethane | U | | 0.205 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| Chloroform | U | | 0.124 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Chloromethane | U | | 0.525 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| 2-Chlorotoluene | U | | 0.104 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| 4-Chlorotoluene | U | | 0.0543 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.470 | 3.01 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.0781 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Dibromomethane | U | | 0.0904 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2-Dichlorobenzene | U | | 0.0512 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.0723 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,4-Dichlorobenzene | U | | 0.0844 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.194 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,1-Dichloroethane | U | | 0.0592 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.0782 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.0731 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| cis-1,2-Dichloroethene | U | | 0.0885 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.125 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.172 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.0975 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.0604 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.0913 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.137 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.166 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Di-isopropyl ether | U | | 0.0494 | 0.121 | 80 | 05/31/2024 00:32 | WG2295815 |
| Ethylbenzene | 75.4 | | 0.0889 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Hexachloro-1,3-butadiene | U | | 0.723 | 3.01 | 80 | 05/31/2024 00:32 | WG2295815 |
| Isopropylbenzene | 21.6 | | 0.0512 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| p-Isopropyltoluene | U | | 0.307 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 7.66 | 12.1 | 80 | 05/31/2024 00:32 | WG2295815 |
| Methylene Chloride | U | | 0.800 | 3.01 | 80 | 05/31/2024 00:32 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.274 | 3.01 | 80 | 05/31/2024 00:32 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0422 | 0.121 | 80 | 05/31/2024 00:32 | WG2295815 |
| Naphthalene | 49.6 | | 0.588 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| n-Propylbenzene | 77.8 | | 0.115 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| Styrene | U | | 0.0276 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.114 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0838 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0909 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Tetrachloroethene | U | | 0.108 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Toluene | 0.996 | | 0.157 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.883 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.531 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.111 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.0720 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Trichloroethene | U | | 0.0704 | 0.121 | 80 | 05/31/2024 00:32 | WG2295815 |
| Trichlorofluoromethane | U | | 0.0998 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.196 | 1.51 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2,4-Trimethylbenzene | 0.220 | J | 0.190 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,2,3-Trimethylbenzene | 6.30 | | 0.190 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| 1,3,5-Trimethylbenzene | 2.23 | | 0.241 | 0.603 | 80 | 05/31/2024 00:32 | WG2295815 |
| Vinyl chloride | U | | 0.140 | 0.301 | 80 | 05/31/2024 00:32 | WG2295815 |
| Xylenes, Total | 3.87 | | 0.106 | 0.784 | 80 | 05/31/2024 00:32 | WG2295815 |
| *(S) Toluene-d8* | *97.4* | | | *75.0-131* | | *05/31/2024 00:32* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *05/31/2024 00:32* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *87.4* | | | *70.0-130* | | *05/31/2024 00:32* | WG2295815 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 37.6 | | 0.894 | 4.88 | 1 | 06/03/2024 14:47 | WG2296787 |
| C22-C32 Hydrocarbons | 2.94 | J | 1.62 | 4.88 | 1 | 06/03/2024 14:47 | WG2296787 |
| C32-C40 Hydrocarbons | U | | 1.62 | 4.88 | 1 | 06/03/2024 14:47 | WG2296787 |
| *(S) o-Terphenyl* | *52.4* | | | *18.0-148* | | *06/03/2024 14:47* | WG2296787 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.9 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 209 | | 1.27 | 3.82 | 25 | 05/30/2024 08:58 | WG2295233 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *117* | | | *77.0-120* | | *05/30/2024 08:58* | WG2295233 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0557 | 0.0763 | 1 | 05/30/2024 22:19 | WG2295815 |
| Acrylonitrile | U | | 0.00551 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| Benzene | 0.426 | | 0.000713 | 0.00153 | 1 | 05/30/2024 22:19 | WG2295815 |
| Bromobenzene | U | | 0.00137 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| Bromodichloromethane | U | | 0.00111 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Bromoform | U | | 0.00179 | 0.0382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Bromomethane | U | | 0.00301 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| n-Butylbenzene | 1.48 | | 0.00801 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| sec-Butylbenzene | 0.693 | | 0.0440 | 0.191 | 10 | 06/02/2024 17:50 | WG2297114 |
| tert-Butylbenzene | U | J4 | 0.00298 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| Carbon tetrachloride | U | | 0.00137 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| Chlorobenzene | U | | 0.000321 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Chlorodibromomethane | U | | 0.000934 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Chloroethane | U | | 0.00259 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| Chloroform | U | | 0.00157 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Chloromethane | U | | 0.00664 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 4-Chlorotoluene | U | | 0.000687 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00595 | 0.0382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.000989 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Dibromomethane | U | | 0.00114 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2-Dichlorobenzene | U | | 0.000649 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.000916 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.00246 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,1-Dichloroethane | U | | 0.000749 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.000991 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.000925 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.00159 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.00217 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.00123 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.000765 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.00116 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.00174 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.00211 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Di-isopropyl ether | U | | 0.000626 | 0.00153 | 1 | 05/30/2024 22:19 | WG2295815 |
| Ethylbenzene | 7.10 | | 0.0112 | 0.0382 | 10 | 06/02/2024 17:50 | WG2297114 |
| Hexachloro-1,3-butadiene | U | | 0.00916 | 0.0382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Isopropylbenzene | 1.13 | | 0.000649 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| p-Isopropyltoluene | 0.313 | | 0.00389 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 0.0969 | 0.153 | 1 | 05/30/2024 22:19 | WG2295815 |
| Methylene Chloride | U | | 0.0101 | 0.0382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00348 | 0.0382 | 1 | 05/30/2024 22:19 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000534 | 0.00153 | 1 | 05/30/2024 22:19 | WG2295815 |
| Naphthalene | 2.84 | | 0.00745 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| n-Propylbenzene | 3.66 | | 0.0145 | 0.0763 | 10 | 06/02/2024 17:50 | WG2297114 |
| Styrene | U | | 0.000350 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00145 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Tetrachloroethene | U | | 0.00137 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Toluene | 0.0928 | | 0.00198 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.00672 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.000911 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Trichloroethene | U | | 0.000891 | 0.00153 | 1 | 05/30/2024 22:19 | WG2295815 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.00247 | 0.0191 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2,4-Trimethylbenzene | 0.0197 | | 0.00241 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,2,3-Trimethylbenzene | 1.06 | | 0.00241 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| 1,3,5-Trimethylbenzene | 0.290 | | 0.00305 | 0.00763 | 1 | 05/30/2024 22:19 | WG2295815 |
| Vinyl chloride | U | | 0.00177 | 0.00382 | 1 | 05/30/2024 22:19 | WG2295815 |
| Xylenes, Total | 0.333 | | 0.00134 | 0.00992 | 1 | 05/30/2024 22:19 | WG2295815 |
| *(S) Toluene-d8* | *130* | | | *75.0-131* | | *05/30/2024 22:19* | WG2295815 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/02/2024 17:50* | WG2297114 |
| *(S) 4-Bromofluorobenzene* | *152* | J1 | | *67.0-138* | | *05/30/2024 22:19* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *67.0-138* | | *06/02/2024 17:50* | WG2297114 |
| *(S) 1,2-Dichloroethane-d4* | *86.1* | | | *70.0-130* | | *05/30/2024 22:19* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *96.4* | | | *70.0-130* | | *06/02/2024 17:50* | WG2297114 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 169 | | 0.906 | 4.95 | 1 | 06/03/2024 15:41 | WG2296787 |
| C22-C32 Hydrocarbons | 15.6 | | 1.64 | 4.95 | 1 | 06/03/2024 15:41 | WG2296787 |
| C32-C40 Hydrocarbons | 11.0 | | 1.64 | 4.95 | 1 | 06/03/2024 15:41 | WG2296787 |
| *(S) o-Terphenyl* | *69.1* | | | *18.0-148* | | *06/03/2024 15:41* | WG2296787 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.6 | | 1 | 05/27/2024 09:58 | WG2293530 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.91 | B J | 1.33 | 3.99 | 25 | 05/30/2024 09:44 | WG2295233 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *05/30/2024 09:44* | WG2295233 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0593 | 0.0812 | 1 | 05/30/2024 22:41 | WG2295815 |
| Acrylonitrile | U | | 0.00586 | 0.0203 | 1 | 05/30/2024 22:41 | WG2295815 |
| Benzene | U | | 0.000759 | 0.00162 | 1 | 05/30/2024 22:41 | WG2295815 |
| Bromobenzene | U | | 0.00146 | 0.0203 | 1 | 05/30/2024 22:41 | WG2295815 |
| Bromodichloromethane | U | | 0.00118 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Bromoform | U | | 0.00190 | 0.0406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Bromomethane | U | | 0.00320 | 0.0203 | 1 | 05/30/2024 22:41 | WG2295815 |
| n-Butylbenzene | U | | 0.00853 | 0.0203 | 1 | 06/02/2024 16:32 | WG2297114 |
| sec-Butylbenzene | U | | 0.00468 | 0.0203 | 1 | 06/02/2024 16:32 | WG2297114 |
| tert-Butylbenzene | U | J4 | 0.00317 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| Carbon tetrachloride | U | | 0.00146 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| Chlorobenzene | U | | 0.000341 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Chlorodibromomethane | U | | 0.000994 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Chloroethane | U | | 0.00276 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| Chloroform | U | | 0.00167 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Chloromethane | U | | 0.00707 | 0.0203 | 1 | 05/30/2024 22:41 | WG2295815 |
| 2-Chlorotoluene | U | | 0.00141 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 4-Chlorotoluene | U | | 0.000731 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00633 | 0.0406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.00105 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Dibromomethane | U | | 0.00122 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2-Dichlorobenzene | U | | 0.000690 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.000975 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,4-Dichlorobenzene | U | | 0.00114 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.00262 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,1-Dichloroethane | U | | 0.000798 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.00105 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.000984 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| cis-1,2-Dichloroethene | U | | 0.00119 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.00169 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.00231 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.00131 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.000814 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.00123 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.00185 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.00224 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Di-isopropyl ether | U | | 0.000666 | 0.00162 | 1 | 05/30/2024 22:41 | WG2295815 |
| Ethylbenzene | U | | 0.00120 | 0.00406 | 1 | 06/02/2024 16:32 | WG2297114 |
| Hexachloro-1,3-butadiene | U | | 0.00975 | 0.0406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Isopropylbenzene | U | | 0.000690 | 0.00406 | 1 | 06/02/2024 16:32 | WG2297114 |
| p-Isopropyltoluene | U | | 0.00414 | 0.00812 | 1 | 06/02/2024 16:32 | WG2297114 |
| 2-Butanone (MEK) | U | J4 | 0.103 | 0.162 | 1 | 05/30/2024 22:41 | WG2295815 |
| Methylene Chloride | U | | 0.0108 | 0.0406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00370 | 0.0406 | 1 | 05/30/2024 22:41 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000569 | 0.00162 | 1 | 05/30/2024 22:41 | WG2295815 |
| Naphthalene | U | | 0.00793 | 0.0203 | 1 | 06/02/2024 16:32 | WG2297114 |
| n-Propylbenzene | U | | 0.00154 | 0.00812 | 1 | 06/02/2024 16:32 | WG2297114 |
| Styrene | U | | 0.000372 | 0.0203 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00154 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00113 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00122 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Tetrachloroethene | U | | 0.00146 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Toluene | U | | 0.00211 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.0119 | 0.0203 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.00715 | 0.0203 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.00150 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.000970 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Trichloroethene | U | | 0.000949 | 0.00162 | 1 | 05/30/2024 22:41 | WG2295815 |
| Trichlorofluoromethane | U | | 0.00134 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.00263 | 0.0203 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2,4-Trimethylbenzene | U | | 0.00257 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| 1,2,3-Trimethylbenzene | U | | 0.00257 | 0.00812 | 1 | 06/02/2024 16:32 | WG2297114 |
| 1,3,5-Trimethylbenzene | U | | 0.00325 | 0.00812 | 1 | 05/30/2024 22:41 | WG2295815 |
| Vinyl chloride | U | | 0.00188 | 0.00406 | 1 | 05/30/2024 22:41 | WG2295815 |
| Xylenes, Total | 0.00325 | J | 0.00143 | 0.0106 | 1 | 05/30/2024 22:41 | WG2295815 |
| *(S) Toluene-d8* | *97.6* | | | *75.0-131* | | *05/30/2024 22:41* | WG2295815 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/02/2024 16:32* | WG2297114 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *67.0-138* | | *05/30/2024 22:41* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/02/2024 16:32* | WG2297114 |
| *(S) 1,2-Dichloroethane-d4* | *80.7* | | | *70.0-130* | | *05/30/2024 22:41* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *93.7* | | | *70.0-130* | | *06/02/2024 16:32* | WG2297114 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.932 | 5.09 | 1 | 06/03/2024 14:05 | WG2296787 |
| C22-C32 Hydrocarbons | U | | 1.69 | 5.09 | 1 | 06/03/2024 14:05 | WG2296787 |
| C32-C40 Hydrocarbons | U | | 1.69 | 5.09 | 1 | 06/03/2024 14:05 | WG2296787 |
| *(S) o-Terphenyl* | *47.8* | | | *18.0-148* | | *06/03/2024 14:05* | WG2296787 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.3 | | 1 | 05/27/2024 09:51 | WG2293531 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 15.3 | | 1.16 | 3.50 | 25 | 05/30/2024 10:30 | WG2295233 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *05/30/2024 10:30* | WG2295233 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0507 | 0.0694 | 1 | 05/30/2024 23:04 | WG2295815 |
| Acrylonitrile | U | | 0.00501 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| Benzene | U | | 0.000648 | 0.00139 | 1 | 05/30/2024 23:04 | WG2295815 |
| Bromobenzene | U | | 0.00125 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| Bromodichloromethane | U | | 0.00101 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Bromoform | U | | 0.00162 | 0.0347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Bromomethane | U | | 0.00274 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| n-Butylbenzene | U | | 0.00729 | 0.0174 | 1 | 06/02/2024 16:52 | WG2297114 |
| sec-Butylbenzene | U | | 0.00400 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| tert-Butylbenzene | U | J4 | 0.00271 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| Carbon tetrachloride | U | | 0.00125 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| Chlorobenzene | U | | 0.000292 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Chlorodibromomethane | U | | 0.000850 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Chloroethane | U | | 0.00236 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| Chloroform | U | | 0.00143 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Chloromethane | U | | 0.00604 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| 2-Chlorotoluene | U | | 0.00120 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 4-Chlorotoluene | U | | 0.000625 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00542 | 0.0347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.000900 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Dibromomethane | U | | 0.00104 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2-Dichlorobenzene | U | | 0.000590 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.000833 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,4-Dichlorobenzene | U | | 0.000972 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.00224 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,1-Dichloroethane | U | | 0.000682 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.000901 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.000841 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| cis-1,2-Dichloroethene | U | | 0.00102 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.00144 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.00197 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.00112 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.000696 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.00105 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.00158 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.00192 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Di-isopropyl ether | U | | 0.000569 | 0.00139 | 1 | 05/30/2024 23:04 | WG2295815 |
| Ethylbenzene | U | | 0.00102 | 0.00347 | 1 | 06/02/2024 16:52 | WG2297114 |
| Hexachloro-1,3-butadiene | U | | 0.00833 | 0.0347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Isopropylbenzene | U | | 0.000590 | 0.00347 | 1 | 06/02/2024 16:52 | WG2297114 |
| p-Isopropyltoluene | U | | 0.00354 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 0.0882 | 0.139 | 1 | 05/30/2024 23:04 | WG2295815 |
| Methylene Chloride | U | | 0.00922 | 0.0347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00317 | 0.0347 | 1 | 05/30/2024 23:04 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000486 | 0.00139 | 1 | 05/30/2024 23:04 | WG2295815 |
| Naphthalene | U | | 0.00678 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| n-Propylbenzene | U | | 0.00132 | 0.00694 | 1 | 06/02/2024 16:52 | WG2297114 |
| Styrene | U | | 0.000318 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00132 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000965 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00105 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Tetrachloroethene | U | | 0.00124 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Toluene | U | | 0.00181 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.0102 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.00611 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.00128 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.000829 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Trichloroethene | U | | 0.000811 | 0.00139 | 1 | 05/30/2024 23:04 | WG2295815 |
| Trichlorofluoromethane | U | | 0.00115 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.00225 | 0.0174 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2,4-Trimethylbenzene | U | | 0.00219 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,2,3-Trimethylbenzene | U | | 0.00219 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| 1,3,5-Trimethylbenzene | U | | 0.00278 | 0.00694 | 1 | 05/30/2024 23:04 | WG2295815 |
| Vinyl chloride | U | | 0.00161 | 0.00347 | 1 | 05/30/2024 23:04 | WG2295815 |
| Xylenes, Total | U | | 0.00122 | 0.00903 | 1 | 05/30/2024 23:04 | WG2295815 |
| *(S) Toluene-d8* | *96.0* | | | *75.0-131* | | *05/30/2024 23:04* | WG2295815 |
| *(S) Toluene-d8* | *98.1* | | | *75.0-131* | | *06/02/2024 16:52* | WG2297114 |
| *(S) 4-Bromofluorobenzene* | *96.0* | | | *67.0-138* | | *05/30/2024 23:04* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *67.0-138* | | *06/02/2024 16:52* | WG2297114 |
| *(S) 1,2-Dichloroethane-d4* | *78.3* | | | *70.0-130* | | *05/30/2024 23:04* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *94.5* | | | *70.0-130* | | *06/02/2024 16:52* | WG2297114 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.95 | J | 0.859 | 4.69 | 1 | 06/03/2024 14:19 | WG2296787 |
| C22-C32 Hydrocarbons | U | | 1.56 | 4.69 | 1 | 06/03/2024 14:19 | WG2296787 |
| C32-C40 Hydrocarbons | U | | 1.56 | 4.69 | 1 | 06/03/2024 14:19 | WG2296787 |
| *(S) o-Terphenyl* | *48.3* | | | *18.0-148* | | *06/03/2024 14:19* | WG2296787 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.2 | | 1 | 05/27/2024 09:51 | WG2293531 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 343 | | 11.6 | 35.0 | 250 | 05/30/2024 21:44 | WG2295674 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.3* | | | *77.0-120* | | *05/30/2024 21:44* | WG2295674 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.02 | 1.40 | 20 | 05/31/2024 00:54 | WG2295815 |
| Acrylonitrile | U | | 0.101 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| Benzene | U | | 0.0131 | 0.0280 | 20 | 05/31/2024 00:54 | WG2295815 |
| Bromobenzene | U | | 0.0252 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| Bromodichloromethane | U | | 0.0203 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Bromoform | U | | 0.0328 | 0.701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Bromomethane | U | | 0.0553 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| n-Butylbenzene | 0.510 | | 0.147 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| sec-Butylbenzene | 0.474 | | 0.0808 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| tert-Butylbenzene | U | J4 | 0.0547 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| Carbon tetrachloride | U | | 0.0252 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| Chlorobenzene | U | | 0.00589 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Chlorodibromomethane | U | | 0.0171 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Chloroethane | U | | 0.0477 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| Chloroform | U | | 0.0289 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Chloromethane | U | | 0.122 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| 2-Chlorotoluene | U | | 0.0243 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 4-Chlorotoluene | U | | 0.0126 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.109 | 0.701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2-Dibromoethane | U | | 0.0182 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Dibromomethane | U | | 0.0210 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2-Dichlorobenzene | U | | 0.0119 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,3-Dichlorobenzene | U | | 0.0168 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,4-Dichlorobenzene | U | | 0.0196 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| Dichlorodifluoromethane | U | | 0.0452 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,1-Dichloroethane | U | | 0.0138 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2-Dichloroethane | U | | 0.0182 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,1-Dichloroethene | U | | 0.0170 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| cis-1,2-Dichloroethene | U | | 0.0206 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| trans-1,2-Dichloroethene | U | | 0.0292 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2-Dichloropropane | U | | 0.0398 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,1-Dichloropropene | U | | 0.0227 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,3-Dichloropropane | U | | 0.0140 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| cis-1,3-Dichloropropene | U | | 0.0212 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| trans-1,3-Dichloropropene | U | | 0.0320 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 2,2-Dichloropropane | U | | 0.0387 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Di-isopropyl ether | U | | 0.0115 | 0.0280 | 20 | 05/31/2024 00:54 | WG2295815 |
| Ethylbenzene | 0.0655 | J | 0.0206 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Hexachloro-1,3-butadiene | U | | 0.168 | 0.701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Isopropylbenzene | 0.142 | | 0.0119 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| p-Isopropyltoluene | 0.116 | J | 0.0715 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 2-Butanone (MEK) | U | J4 | 1.78 | 2.80 | 20 | 05/31/2024 00:54 | WG2295815 |
| Methylene Chloride | U | | 0.187 | 0.701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0639 | 0.701 | 20 | 05/31/2024 00:54 | WG2295815 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00982 | 0.0280 | 20 | 05/31/2024 00:54 | WG2295815 |
| Naphthalene | 0.213 | J | 0.137 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| n-Propylbenzene | 0.188 | | 0.0266 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| Styrene | U | | 0.00642 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0266 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0195 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0212 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Tetrachloroethene | U | | 0.0251 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Toluene | U | | 0.0365 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2,3-Trichlorobenzene | U | | 0.206 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2,4-Trichlorobenzene | U | | 0.123 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,1,1-Trichloroethane | U | | 0.0259 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,1,2-Trichloroethane | U | | 0.0167 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Trichloroethene | U | | 0.0164 | 0.0280 | 20 | 05/31/2024 00:54 | WG2295815 |
| Trichlorofluoromethane | U | | 0.0231 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2,3-Trichloropropane | U | | 0.0454 | 0.351 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2,4-Trimethylbenzene | U | | 0.0443 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,2,3-Trimethylbenzene | U | | 0.0443 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| 1,3,5-Trimethylbenzene | U | | 0.0561 | 0.140 | 20 | 05/31/2024 00:54 | WG2295815 |
| Vinyl chloride | U | | 0.0325 | 0.0701 | 20 | 05/31/2024 00:54 | WG2295815 |
| Xylenes, Total | U | | 0.0247 | 0.182 | 20 | 05/31/2024 00:54 | WG2295815 |
| *(S) Toluene-d8* | *95.7* | | | *75.0-131* | | *05/31/2024 00:54* | WG2295815 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *67.0-138* | | *05/31/2024 00:54* | WG2295815 |
| *(S) 1,2-Dichloroethane-d4* | *91.3* | | | *70.0-130* | | *05/31/2024 00:54* | WG2295815 |

**Sample Narrative:**

L1740224-18 WG2295815: Non-target compounds too high to run at a lower dilution.

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 17.6 | | 0.860 | 4.69 | 1 | 06/03/2024 14:33 | WG2296787 |
| C22-C32 Hydrocarbons | U | | 1.56 | 4.69 | 1 | 06/03/2024 14:33 | WG2296787 |
| C32-C40 Hydrocarbons | U | | 1.56 | 4.69 | 1 | 06/03/2024 14:33 | WG2296787 |
| *(S) o-Terphenyl* | *48.8* | | | *18.0-148* | | *06/03/2024 14:33* | WG2296787 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 05/31/2024 23:47 | WG2296577 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 05/31/2024 23:47 | WG2296577 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 05/31/2024 23:47 | WG2296577 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 05/31/2024 23:47 | WG2296577 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 05/31/2024 23:47 | WG2296577 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 05/31/2024 23:47 | WG2296577 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Styrene | U | | 0.118 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Toluene | U | | 0.278 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 05/31/2024 23:47 | WG2296577 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *05/31/2024 23:47* | WG2296577 |
| *(S) 4-Bromofluorobenzene* | *115* | | | *77.0-126* | | *05/31/2024 23:47* | WG2296577 |
| *(S) 1,2-Dichloroethane-d4* | *99.3* | | | *70.0-130* | | *05/31/2024 23:47* | WG2296577 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/26/2024 18:26 | WG2293140 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/28/2024 11:45 | WG2293147 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | U | | 0.736 | 5.00 | 1 | 06/03/2024 17:01 | WG2296300 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/03/2024 17:01 | WG2296300 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/03/2024 17:01 | WG2296300 |
| Cobalt,Dissolved | 1.11 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:01 | WG2296300 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 | 1 | 06/03/2024 17:01 | WG2296300 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 06/03/2024 17:01 | WG2296300 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | 1.84 | J | 1.03 | 4.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Arsenic | U | | 0.180 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Barium | U | | 0.381 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Chromium | U | | 1.24 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Copper | U | | 1.51 | 5.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Copper,Dissolved | U | | 1.51 | 5.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Cobalt | U | | 0.0596 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Lead | U | | 0.849 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Molybdenum | U | | 0.348 | 5.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Nickel | U | | 0.816 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Nickel,Dissolved | U | | 0.816 | 2.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Selenium | U | | 0.300 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/15/2024 13:12 | WG2296356 |
| Vanadium | U | | 0.664 | 5.00 | 1 | 06/12/2024 22:24 | WG2296474 |
| Zinc | U | | 3.02 | 25.0 | 1 | 06/12/2024 22:24 | WG2296474 |
| Zinc,Dissolved | U | | 3.02 | 25.0 | 1 | 06/15/2024 13:12 | WG2296356 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 60.0 | B J | 30.4 | 100 | 1 | 05/29/2024 13:13 | WG2294783 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.9* | | | *78.0-120* | | *05/29/2024 13:13* | WG2294783 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/01/2024 00:45 | WG2296577 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/01/2024 00:45 | WG2296577 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/01/2024 00:45 | WG2296577 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/01/2024 00:45 | WG2296577 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 2-Butanone (MEK) | 1.22 | J | 1.19 | 10.0 | 1 | 06/01/2024 00:45 | WG2296577 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/01/2024 00:45 | WG2296577 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/01/2024 00:45 | WG2296577 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *06/01/2024 00:45* | WG2296577 |
| *(S) 4-Bromofluorobenzene* | *97.8* | | | *77.0-126* | | *06/01/2024 00:45* | WG2296577 |
| *(S) 1,2-Dichloroethane-d4* | *99.9* | | | *70.0-130* | | *06/01/2024 00:45* | WG2296577 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 36.5 | J | 33.0 | 100 | 1 | 05/30/2024 09:05 | WG2294852 |
| C22-C32 Hydrocarbons | 33.9 | J | 33.0 | 100 | 1 | 05/30/2024 09:05 | WG2294852 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/30/2024 09:05 | WG2294852 |
| *(S) o-Terphenyl* | *67.9* | | | *52.0-156* | | *05/30/2024 09:05* | WG2294852 |

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.4 | | 1 | 05/27/2024 09:51 | WG2293531 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0706 | | 0.0197 | 0.0438 | 1 | 05/26/2024 20:15 | WG2293345 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.22 | J | 0.595 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| Arsenic | 7.14 | | 0.567 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| Barium | 110 | | 0.0932 | 0.547 | 1 | 06/04/2024 23:52 | WG2298458 |
| Beryllium | 0.173 | J | 0.0345 | 0.219 | 1 | 06/04/2024 23:52 | WG2298458 |
| Cadmium | 0.859 | | 0.0515 | 0.547 | 1 | 06/04/2024 23:52 | WG2298458 |
| Chromium | 22.0 | | 0.146 | 1.09 | 1 | 06/04/2024 23:52 | WG2298458 |
| Cobalt | 5.96 | | 0.0888 | 1.09 | 1 | 06/04/2024 23:52 | WG2298458 |
| Copper | 23.3 | | 0.438 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| Lead | 220 | | 0.228 | 0.547 | 1 | 06/04/2024 23:52 | WG2298458 |
| Molybdenum | 1.25 | | 0.119 | 0.547 | 1 | 06/04/2024 23:52 | WG2298458 |
| Nickel | 20.2 | | 0.144 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| Selenium | U | | 0.836 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| Silver | 4.88 | | 0.139 | 1.09 | 1 | 06/05/2024 13:43 | WG2298458 |
| Thallium | 0.945 | J | 0.431 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| Vanadium | 22.0 | | 0.554 | 2.19 | 1 | 06/04/2024 23:52 | WG2298458 |
| Zinc | 151 | | 0.911 | 5.47 | 1 | 06/04/2024 23:52 | WG2298458 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.129 | 0.372 | 10 | 06/01/2024 16:52 | WG2296622 |
| PCB 1221 | U | | 0.129 | 0.372 | 10 | 06/01/2024 16:52 | WG2296622 |
| PCB 1232 | U | | 0.129 | 0.372 | 10 | 06/01/2024 16:52 | WG2296622 |
| PCB 1242 | U | | 0.129 | 0.372 | 10 | 06/01/2024 16:52 | WG2296622 |
| PCB 1248 | U | | 0.0808 | 0.186 | 10 | 06/01/2024 16:52 | WG2296622 |
| PCB 1254 | U | | 0.0808 | 0.186 | 10 | 06/01/2024 16:52 | WG2296622 |
| PCB 1260 | U | | 0.0808 | 0.186 | 10 | 06/01/2024 16:52 | WG2296622 |
| *(S) Decachlorobiphenyl* | *93.8* | | | *10.0-135* | | *06/01/2024 16:52* | WG2296622 |
| *(S) Tetrachloro-m-xylene* | *84.9* | | | *10.0-139* | | *06/01/2024 16:52* | WG2296622 |

**Sample Narrative:**

L1740224-21 WG2296622: Dilution due to matrix

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0294 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Acenaphthylene | U | | 0.0256 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Anthracene | U | | 0.0325 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Benzidine | U | J6 | 0.343 | 9.14 | 5 | 06/02/2024 16:25 | WG2296790 |
| Benzo(a)anthracene | U | | 0.0321 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Benzo(b)fluoranthene | 0.0541 | J | 0.0340 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Benzo(k)fluoranthene | U | | 0.0324 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Benzo(g,h,i)perylene | U | | 0.0334 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.0399 | J | 0.0338 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Bis(2-chlorethoxy)methane | U | | 0.0547 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0602 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0788 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0640 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.0321 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0635 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Chrysene | U | | 0.0362 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Dibenz(a,h)anthracene | U | | 0.0506 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0541 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0553 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0543 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0673 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0523 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0596 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Fluoranthene | 0.0484 | J | 0.0329 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Fluorene | U | | 0.0297 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Hexachlorobenzene | U | J6 | 0.0646 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0613 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Hexachlorocyclopentadiene | U | J6 | 0.0958 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Hexachloroethane | U | | 0.0717 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0515 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Isophorone | U | | 0.0558 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Naphthalene | 0.0502 | J | 0.0457 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Nitrobenzene | U | | 0.0635 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| n-Nitrosodimethylamine | U | J6 | 0.270 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.138 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0607 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Phenanthrene | 0.0415 | J | 0.0362 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| Benzylbutyl phthalate | U | | 0.0569 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | U | | 0.231 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Di-n-butyl phthalate | U | | 0.0624 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Diethyl phthalate | U | | 0.0602 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Dimethyl phthalate | U | | 0.386 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.124 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Pyrene | 0.0487 | J J3 | 0.0355 | 0.183 | 5 | 06/02/2024 16:25 | WG2296790 |
| 1,2,4-Trichlorobenzene | U | | 0.0569 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0591 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2-Chlorophenol | U | | 0.0602 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0531 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2,4-Dimethylphenol | U | | 0.0476 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.414 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2,4-Dinitrophenol | U | J6 | 0.426 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2-Nitrophenol | U | | 0.0651 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 4-Nitrophenol | U | | 0.0569 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Pentachlorophenol | U | | 0.0490 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| Phenol | U | | 0.0733 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0586 | 1.83 | 5 | 06/02/2024 16:25 | WG2296790 |
| *(S) 2-Fluorophenol* | *53.3* | | | *12.0-120* | | *06/02/2024 16:25* | WG2296790 |
| *(S) Phenol-d5* | *51.5* | | | *10.0-120* | | *06/02/2024 16:25* | WG2296790 |
| *(S) Nitrobenzene-d5* | *41.1* | | | *10.0-122* | | *06/02/2024 16:25* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *45.3* | | | *15.0-120* | | *06/02/2024 16:25* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *40.1* | | | *10.0-127* | | *06/02/2024 16:25* | WG2296790 |
| *(S) p-Terphenyl-d14* | *45.9* | | | *10.0-120* | | *06/02/2024 16:25* | WG2296790 |

**Sample Narrative:**

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1740224-21 WG2296790: Cannot run at lower dilution due to viscosity of extract

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 81.9 | | 1 | 05/27/2024 09:51 | WG2293531 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0220 | 0.0489 | 1 | 05/28/2024 19:03 | WG2293719 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 9.82 | | 0.664 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| Arsenic | 4.37 | | 0.633 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| Barium | 560 | | 0.104 | 0.611 | 1 | 06/04/2024 23:54 | WG2298458 |
| Beryllium | 1.31 | | 0.0385 | 0.244 | 1 | 06/04/2024 23:54 | WG2298458 |
| Cadmium | 14.7 | | 0.0575 | 0.611 | 1 | 06/04/2024 23:54 | WG2298458 |
| Chromium | 103 | | 0.162 | 1.22 | 1 | 06/04/2024 23:54 | WG2298458 |
| Cobalt | 1.83 | | 0.0991 | 1.22 | 1 | 06/04/2024 23:54 | WG2298458 |
| Copper | 92.7 | | 0.489 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| Lead | 4890 | | 1.27 | 3.05 | 5 | 06/05/2024 14:00 | WG2298458 |
| Molybdenum | 7.35 | | 0.133 | 0.611 | 1 | 06/04/2024 23:54 | WG2298458 |
| Nickel | 19.4 | | 0.161 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| Selenium | U | | 0.933 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| Silver | 75.5 | | 0.155 | 1.22 | 1 | 06/05/2024 14:03 | WG2298458 |
| Thallium | U | | 2.41 | 12.2 | 5 | 06/05/2024 14:00 | WG2298458 |
| Vanadium | 36.2 | | 0.618 | 2.44 | 1 | 06/04/2024 23:54 | WG2298458 |
| Zinc | 4510 | | 5.08 | 30.5 | 5 | 06/05/2024 14:00 | WG2298458 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J4 | 0.0536 | 0.0734 | 1 | 05/31/2024 02:02 | WG2295920 |
| Acrylonitrile | U | | 0.00530 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| Benzene | 0.307 | | 0.000685 | 0.00147 | 1 | 05/31/2024 02:02 | WG2295920 |
| Bromobenzene | U | | 0.00132 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| Bromodichloromethane | U | | 0.00106 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Bromoform | U | | 0.00172 | 0.0367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Bromomethane | U | | 0.00289 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| n-Butylbenzene | U | | 0.00770 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| sec-Butylbenzene | U | | 0.00423 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| tert-Butylbenzene | U | | 0.00286 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| Carbon tetrachloride | U | | 0.00132 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| Chlorobenzene | U | | 0.000308 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Chlorodibromomethane | U | | 0.000898 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Chloroethane | U | | 0.00249 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| Chloroform | U | | 0.00151 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Chloromethane | U | | 0.00638 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| 2-Chlorotoluene | U | | 0.00127 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 4-Chlorotoluene | U | | 0.000660 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00572 | 0.0367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2-Dibromoethane | U | | 0.000951 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Dibromomethane | U | | 0.00110 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2-Dichlorobenzene | 0.00238 | J | 0.000624 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,3-Dichlorobenzene | U | | 0.000881 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,4-Dichlorobenzene | U | | 0.00103 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00236 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,1-Dichloroethane | 0.0725 | | 0.000721 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2-Dichloroethane | U | | 0.000952 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,1-Dichloroethene | U | | 0.000889 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| cis-1,2-Dichloroethene | U | | 0.00108 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| trans-1,2-Dichloroethene | U | | 0.00153 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2-Dichloropropane | U | | 0.00208 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,1-Dichloropropene | U | | 0.00119 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,3-Dichloropropane | U | | 0.000735 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| cis-1,3-Dichloropropene | U | | 0.00111 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| trans-1,3-Dichloropropene | U | | 0.00167 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 2,2-Dichloropropane | U | | 0.00203 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Di-isopropyl ether | U | | 0.000602 | 0.00147 | 1 | 05/31/2024 02:02 | WG2295920 |
| Ethylbenzene | 0.119 | | 0.00108 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Hexachloro-1,3-butadiene | U | | 0.00881 | 0.0367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Isopropylbenzene | 0.0178 | | 0.000624 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| p-Isopropyltoluene | 0.0346 | | 0.00374 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 2-Butanone (MEK) | U | | 0.0932 | 0.147 | 1 | 05/31/2024 02:02 | WG2295920 |
| Methylene Chloride | U | | 0.00974 | 0.0367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00335 | 0.0367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Methyl tert-butyl ether | U | | 0.000514 | 0.00147 | 1 | 05/31/2024 02:02 | WG2295920 |
| Naphthalene | 0.183 | | 0.00716 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| n-Propylbenzene | 0.0345 | | 0.00139 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| Styrene | U | | 0.000336 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00139 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00102 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00111 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Tetrachloroethene | U | | 0.00131 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Toluene | 0.409 | | 0.00191 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2,3-Trichlorobenzene | U | | 0.0108 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2,4-Trichlorobenzene | U | | 0.00646 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,1,1-Trichloroethane | 0.0141 | | 0.00135 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,1,2-Trichloroethane | U | | 0.000876 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Trichloroethene | U | | 0.000857 | 0.00147 | 1 | 05/31/2024 02:02 | WG2295920 |
| Trichlorofluoromethane | U | | 0.00121 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2,3-Trichloropropane | U | | 0.00238 | 0.0183 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2,4-Trimethylbenzene | 0.105 | | 0.00232 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,2,3-Trimethylbenzene | 0.0484 | | 0.00232 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| 1,3,5-Trimethylbenzene | 0.0420 | | 0.00294 | 0.00734 | 1 | 05/31/2024 02:02 | WG2295920 |
| Vinyl chloride | U | | 0.00170 | 0.00367 | 1 | 05/31/2024 02:02 | WG2295920 |
| Xylenes, Total | 0.537 | | 0.00129 | 0.00954 | 1 | 05/31/2024 02:02 | WG2295920 |
| *(S) Toluene-d8* | *98.9* | | | *75.0-131* | | *05/31/2024 02:02* | WG2295920 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *05/31/2024 02:02* | WG2295920 |
| *(S) 1,2-Dichloroethane-d4* | *97.3* | | | *70.0-130* | | *05/31/2024 02:02* | WG2295920 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0288 | 0.0831 | 2 | 06/02/2024 01:53 | WG2296926 |
| PCB 1221 | U | | 0.0288 | 0.0831 | 2 | 06/02/2024 01:53 | WG2296926 |
| PCB 1232 | U | | 0.0288 | 0.0831 | 2 | 06/02/2024 01:53 | WG2296926 |
| PCB 1242 | U | | 0.0288 | 0.0831 | 2 | 06/02/2024 01:53 | WG2296926 |
| PCB 1248 | U | | 0.0181 | 0.0415 | 2 | 06/02/2024 01:53 | WG2296926 |
| PCB 1254 | U | | 0.0181 | 0.0415 | 2 | 06/02/2024 01:53 | WG2296926 |
| PCB 1260 | U | | 0.0181 | 0.0415 | 2 | 06/02/2024 01:53 | WG2296926 |
| *(S) Decachlorobiphenyl* | *84.5* | | | *10.0-135* | | *06/02/2024 01:53* | WG2296926 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *70.0* | | | *10.0-139* | | *06/02/2024 01:53* | WG2296926 |

**Sample Narrative:**

L1740224-22 WG2296926: Dilution due to sulfur cleanup.

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0259 | J | 0.00658 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Acenaphthylene | U | | 0.00573 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Anthracene | 0.137 | | 0.00724 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Benzidine | U | | 0.0765 | 2.04 | 1 | 06/02/2024 14:47 | WG2296790 |
| Benzo(a)anthracene | 0.123 | | 0.00717 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Benzo(b)fluoranthene | 0.253 | | 0.00759 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Benzo(k)fluoranthene | 0.0633 | | 0.00723 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Benzo(g,h,i)perylene | 0.0997 | | 0.00744 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Benzo(a)pyrene | 0.151 | | 0.00756 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Bis(2-chlorethoxy)methane | U | | 0.0122 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0134 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0176 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0143 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.00715 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0142 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Chrysene | 0.127 | | 0.00809 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Dibenz(a,h)anthracene | 0.0286 | J | 0.0113 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0121 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0123 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0121 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0150 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0117 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0133 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Fluoranthene | 0.228 | | 0.00734 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Fluorene | 0.0887 | | 0.00662 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Hexachlorobenzene | U | | 0.0144 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0137 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Hexachlorocyclopentadiene | U | | 0.0214 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Hexachloroethane | U | | 0.0160 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | 0.108 | | 0.0115 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Isophorone | U | | 0.0125 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Naphthalene | 0.475 | | 0.0102 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Nitrobenzene | U | | 0.0142 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| n-Nitrosodimethylamine | U | | 0.0603 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.0308 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0136 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Phenanthrene | 0.203 | | 0.00807 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Benzylbutyl phthalate | 0.109 | J | 0.0127 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | 0.126 | J | 0.0515 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Di-n-butyl phthalate | U | | 0.0139 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Diethyl phthalate | U | | 0.0134 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Dimethyl phthalate | U | | 0.0862 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.0275 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Pyrene | 0.204 | | 0.00792 | 0.0407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 1,2,4-Trichlorobenzene | U | | 0.0127 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0132 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2-Chlorophenol | U | | 0.0134 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0118 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | 0.257 | J | 0.0106 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0922 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2,4-Dinitrophenol | U | | 0.0952 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2-Nitrophenol | U | | 0.0145 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 4-Nitrophenol | U | | 0.0127 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Pentachlorophenol | U | | 0.0109 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| Phenol | 0.564 | | 0.0164 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0131 | 0.407 | 1 | 06/02/2024 14:47 | WG2296790 |
| *(S) 2-Fluorophenol* | *55.7* | | | *12.0-120* | | *06/02/2024 14:47* | WG2296790 |
| *(S) Phenol-d5* | *52.4* | | | *10.0-120* | | *06/02/2024 14:47* | WG2296790 |
| *(S) Nitrobenzene-d5* | *41.1* | | | *10.0-122* | | *06/02/2024 14:47* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *50.8* | | | *15.0-120* | | *06/02/2024 14:47* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *60.4* | | | *10.0-127* | | *06/02/2024 14:47* | WG2296790 |
| *(S) p-Terphenyl-d14* | *53.2* | | | *10.0-120* | | *06/02/2024 14:47* | WG2296790 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.8 | | 1 | 05/27/2024 09:51 | WG2293531 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.385 | | 0.0196 | 0.0436 | 1 | 05/28/2024 19:05 | WG2293719 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.66 | J | 0.592 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| Arsenic | 2.38 | | 0.564 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| Barium | 130 | | 0.0928 | 0.544 | 1 | 06/04/2024 23:55 | WG2298458 |
| Beryllium | 0.204 | J | 0.0343 | 0.218 | 1 | 06/04/2024 23:55 | WG2298458 |
| Cadmium | 0.305 | J | 0.0513 | 0.544 | 1 | 06/04/2024 23:55 | WG2298458 |
| Chromium | 10.5 | | 0.145 | 1.09 | 1 | 06/04/2024 23:55 | WG2298458 |
| Cobalt | 7.63 | | 0.0883 | 1.09 | 1 | 06/04/2024 23:55 | WG2298458 |
| Copper | 25.8 | | 0.436 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| Lead | 50.1 | | 0.227 | 0.544 | 1 | 06/04/2024 23:55 | WG2298458 |
| Molybdenum | 0.238 | J | 0.119 | 0.544 | 1 | 06/04/2024 23:55 | WG2298458 |
| Nickel | 15.1 | | 0.144 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| Selenium | U | | 0.832 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| Silver | 0.774 | B J | 0.138 | 1.09 | 1 | 06/05/2024 14:07 | WG2298458 |
| Thallium | 0.851 | J | 0.429 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| Vanadium | 18.1 | | 0.551 | 2.18 | 1 | 06/04/2024 23:55 | WG2298458 |
| Zinc | 90.7 | | 0.906 | 5.44 | 1 | 06/04/2024 23:55 | WG2298458 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 8.10 | B | 1.02 | 3.09 | 26.3 | 06/03/2024 03:44 | WG2297149 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *06/03/2024 03:44* | WG2297149 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| C12-C22 Hydrocarbons | 16.1 | | 1.60 | 8.71 | 2 | 06/03/2024 16:09 | WG2296787 |
| C22-C32 Hydrocarbons | 93.9 | | 2.90 | 8.71 | 2 | 06/03/2024 16:09 | WG2296787 |
| C32-C40 Hydrocarbons | 72.2 | | 2.90 | 8.71 | 2 | 06/03/2024 16:09 | WG2296787 |
| *(S) o-Terphenyl* | *59.8* | | | *18.0-148* | | *06/03/2024 16:09* | WG2296787 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00587 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Acenaphthylene | U | | 0.00511 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Anthracene | U | | 0.00646 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Benzidine | U | | 0.0682 | 1.82 | 1 | 06/02/2024 13:57 | WG2296790 |
| Benzo(a)anthracene | U | | 0.00639 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Benzo(b)fluoranthene | 0.00774 | J | 0.00676 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Benzo(k)fluoranthene | U | | 0.00645 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Benzo(g,h,i)perylene | 0.00665 | J | 0.00663 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Benzo(a)pyrene | U | | 0.00674 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0109 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Bis(2-chloroethyl)ether | U | | 0.0120 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0157 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 4-Bromophenyl-phenylether | U | | 0.0127 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2-Chloronaphthalene | U | | 0.00637 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 4-Chlorophenyl-phenylether | U | | 0.0126 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Chrysene | U | | 0.00721 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Dibenz(a,h)anthracene | U | | 0.0101 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 1,2-Dichlorobenzene | U | | 0.0107 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 1,3-Dichlorobenzene | U | | 0.0110 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 1,4-Dichlorobenzene | U | | 0.0108 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 3,3-Dichlorobenzidine | U | | 0.0134 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2,4-Dinitrotoluene | U | | 0.0104 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2,6-Dinitrotoluene | U | | 0.0119 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Fluoranthene | U | | 0.00654 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Fluorene | U | | 0.00590 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Hexachlorobenzene | U | | 0.0128 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Hexachloro-1,3-butadiene | U | | 0.0122 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Hexachlorocyclopentadiene | U | | 0.0191 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Hexachloroethane | U | | 0.0143 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0102 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Isophorone | U | | 0.0111 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Naphthalene | U | | 0.00910 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Nitrobenzene | U | | 0.0126 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| n-Nitrosodimethylamine | U | | 0.0538 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| n-Nitrosodiphenylamine | U | | 0.0274 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| n-Nitrosodi-n-propylamine | U | | 0.0121 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Phenanthrene | U | | 0.00720 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Benzylbutyl phthalate | U | | 0.0113 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0460 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Di-n-butyl phthalate | 0.173 | J | 0.0124 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Diethyl phthalate | U | | 0.0120 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Dimethyl phthalate | U | | 0.0769 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Di-n-octyl phthalate | U | | 0.0245 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Pyrene | U | | 0.00706 | 0.0363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 1,2,4-Trichlorobenzene | U | | 0.0113 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 4-Chloro-3-methylphenol | U | | 0.0118 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2-Chlorophenol | U | | 0.0120 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2,4-Dichlorophenol | U | | 0.0106 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2,4-Dimethylphenol | U | | 0.00947 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0822 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2,4-Dinitrophenol | U | | 0.0848 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2-Nitrophenol | U | | 0.0130 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 4-Nitrophenol | U | | 0.0113 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Pentachlorophenol | U | | 0.00976 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| Phenol | U | | 0.0146 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| 2,4,6-Trichlorophenol | U | | 0.0117 | 0.363 | 1 | 06/02/2024 13:57 | WG2296790 |
| *(S) 2-Fluorophenol* | *63.2* | | | *12.0-120* | | *06/02/2024 13:57* | WG2296790 |
| *(S) Phenol-d5* | *58.3* | | | *10.0-120* | | *06/02/2024 13:57* | WG2296790 |
| *(S) Nitrobenzene-d5* | *49.5* | | | *10.0-122* | | *06/02/2024 13:57* | WG2296790 |
| *(S) 2-Fluorobiphenyl* | *57.8* | | | *15.0-120* | | *06/02/2024 13:57* | WG2296790 |
| *(S) 2,4,6-Tribromophenol* | *66.0* | | | *10.0-127* | | *06/02/2024 13:57* | WG2296790 |
| *(S) p-Terphenyl-d14* | *66.5* | | | *10.0-120* | | *06/02/2024 13:57* | WG2296790 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.8 | | 1 | 05/27/2024 09:51 | WG2293531 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.91 | B J | 1.09 | 3.30 | 25 | 05/30/2024 10:53 | WG2295233 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.5* | | | *77.0-120* | | *05/30/2024 10:53* | WG2295233 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0476 | 0.0652 | 1 | 05/31/2024 02:21 | WG2295920 |
| Acrylonitrile | U | | 0.00470 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| Benzene | 0.00235 | | 0.000609 | 0.00130 | 1 | 05/31/2024 02:21 | WG2295920 |
| Bromobenzene | U | | 0.00117 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| Bromodichloromethane | U | | 0.000945 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Bromoform | U | | 0.00152 | 0.0326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Bromomethane | U | | 0.00257 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| n-Butylbenzene | U | | 0.00684 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| sec-Butylbenzene | U | | 0.00375 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| tert-Butylbenzene | U | | 0.00254 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| Carbon tetrachloride | U | | 0.00117 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| Chlorobenzene | U | | 0.000274 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Chlorodibromomethane | U | | 0.000798 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Chloroethane | U | | 0.00222 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| Chloroform | U | | 0.00134 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Chloromethane | U | | 0.00567 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| 2-Chlorotoluene | U | | 0.00113 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 4-Chlorotoluene | U | | 0.000586 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00508 | 0.0326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2-Dibromoethane | U | | 0.000845 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Dibromomethane | U | | 0.000977 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2-Dichlorobenzene | U | | 0.000554 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,3-Dichlorobenzene | U | | 0.000782 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,4-Dichlorobenzene | U | | 0.000912 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| Dichlorodifluoromethane | U | | 0.00210 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,1-Dichloroethane | U | | 0.000640 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2-Dichloroethane | U | | 0.000846 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,1-Dichloroethene | U | | 0.000790 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| cis-1,2-Dichloroethene | U | | 0.000957 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| trans-1,2-Dichloroethene | U | | 0.00136 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2-Dichloropropane | U | | 0.00185 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,1-Dichloropropene | U | | 0.00105 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,3-Dichloropropane | U | | 0.000653 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| cis-1,3-Dichloropropene | U | | 0.000987 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| trans-1,3-Dichloropropene | U | | 0.00149 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 2,2-Dichloropropane | U | | 0.00180 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Di-isopropyl ether | U | | 0.000534 | 0.00130 | 1 | 05/31/2024 02:21 | WG2295920 |
| Ethylbenzene | U | | 0.000961 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Hexachloro-1,3-butadiene | U | | 0.00782 | 0.0326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Isopropylbenzene | U | | 0.000554 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| p-Isopropyltoluene | U | | 0.00332 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 2-Butanone (MEK) | U | | 0.0828 | 0.130 | 1 | 05/31/2024 02:21 | WG2295920 |
| Methylene Chloride | U | | 0.00865 | 0.0326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00297 | 0.0326 | 1 | 05/31/2024 02:21 | WG2295920 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000456 | 0.00130 | 1 | 05/31/2024 02:21 | WG2295920 |
| Naphthalene | 0.0124 | J | 0.00636 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| n-Propylbenzene | U | | 0.00124 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| Styrene | U | | 0.000298 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00124 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000906 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000983 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Tetrachloroethene | U | | 0.00117 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Toluene | 0.00297 | J | 0.00169 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2,3-Trichlorobenzene | U | | 0.00955 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2,4-Trichlorobenzene | U | | 0.00573 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,1,1-Trichloroethane | U | | 0.00120 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,1,2-Trichloroethane | U | | 0.000778 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Trichloroethene | U | | 0.000761 | 0.00130 | 1 | 05/31/2024 02:21 | WG2295920 |
| Trichlorofluoromethane | U | | 0.00108 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2,3-Trichloropropane | U | | 0.00211 | 0.0163 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2,4-Trimethylbenzene | U | | 0.00206 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,2,3-Trimethylbenzene | U | | 0.00206 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| 1,3,5-Trimethylbenzene | U | | 0.00261 | 0.00652 | 1 | 05/31/2024 02:21 | WG2295920 |
| Vinyl chloride | U | | 0.00151 | 0.00326 | 1 | 05/31/2024 02:21 | WG2295920 |
| Xylenes, Total | 0.00222 | J | 0.00115 | 0.00847 | 1 | 05/31/2024 02:21 | WG2295920 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *05/31/2024 02:21* | WG2295920 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *05/31/2024 02:21* | WG2295920 |
| *(S) 1,2-Dichloroethane-d4* | *94.6* | | | *70.0-130* | | *05/31/2024 02:21* | WG2295920 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.30 | J | 0.844 | 4.61 | 1 | 06/03/2024 15:55 | WG2296787 |
| C22-C32 Hydrocarbons | 9.75 | | 1.53 | 4.61 | 1 | 06/03/2024 15:55 | WG2296787 |
| C32-C40 Hydrocarbons | 6.53 | | 1.53 | 4.61 | 1 | 06/03/2024 15:55 | WG2296787 |
| *(S) o-Terphenyl* | *44.9* | | | *18.0-148* | | *06/03/2024 15:55* | WG2296787 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.4 | | 1 | 05/27/2024 09:51 | WG2293531 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J4 | 0.0531 | 0.0728 | 1 | 05/31/2024 02:40 | WG2295920 |
| Acrylonitrile | U | | 0.00525 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| Benzene | U | | 0.000680 | 0.00146 | 1 | 05/31/2024 02:40 | WG2295920 |
| Bromobenzene | U | | 0.00131 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| Bromodichloromethane | U | | 0.00106 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Bromoform | U | | 0.00170 | 0.0364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Bromomethane | U | | 0.00287 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| n-Butylbenzene | U | | 0.00764 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| sec-Butylbenzene | U | | 0.00419 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| tert-Butylbenzene | U | | 0.00284 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| Carbon tetrachloride | U | | 0.00131 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| Chlorobenzene | U | | 0.000306 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Chlorodibromomethane | U | | 0.000891 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Chloroethane | U | | 0.00247 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| Chloroform | U | | 0.00150 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Chloromethane | U | | 0.00633 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| 2-Chlorotoluene | U | | 0.00126 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 4-Chlorotoluene | U | | 0.000655 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00568 | 0.0364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2-Dibromoethane | U | | 0.000943 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Dibromomethane | U | | 0.00109 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2-Dichlorobenzene | U | | 0.000619 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,3-Dichlorobenzene | U | | 0.000873 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,4-Dichlorobenzene | U | | 0.00102 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| Dichlorodifluoromethane | U | | 0.00234 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,1-Dichloroethane | U | | 0.000715 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2-Dichloroethane | U | | 0.000945 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,1-Dichloroethene | U | | 0.000882 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| cis-1,2-Dichloroethene | U | | 0.00107 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| trans-1,2-Dichloroethene | U | | 0.00151 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2-Dichloropropane | U | | 0.00207 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,1-Dichloropropene | U | | 0.00118 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,3-Dichloropropane | U | | 0.000729 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| cis-1,3-Dichloropropene | U | | 0.00110 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| trans-1,3-Dichloropropene | U | | 0.00166 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 2,2-Dichloropropane | U | | 0.00201 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Di-isopropyl ether | U | | 0.000597 | 0.00146 | 1 | 05/31/2024 02:40 | WG2295920 |
| Ethylbenzene | U | | 0.00107 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Hexachloro-1,3-butadiene | U | | 0.00873 | 0.0364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Isopropylbenzene | U | | 0.000619 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| p-Isopropyltoluene | U | | 0.00371 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 2-Butanone (MEK) | U | | 0.0924 | 0.146 | 1 | 05/31/2024 02:40 | WG2295920 |
| Methylene Chloride | U | | 0.00966 | 0.0364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00332 | 0.0364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Methyl tert-butyl ether | U | | 0.000509 | 0.00146 | 1 | 05/31/2024 02:40 | WG2295920 |
| Naphthalene | U | | 0.00710 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| n-Propylbenzene | U | | 0.00138 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| Styrene | U | | 0.000333 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00138 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00101 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00110 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Tetrachloroethene | U | | 0.00130 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Toluene | U | | 0.00189 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2,3-Trichlorobenzene | U | | 0.0107 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2,4-Trichlorobenzene | U | | 0.00640 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,1,1-Trichloroethane | U | | 0.00134 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,1,2-Trichloroethane | U | | 0.000869 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Trichloroethene | U | | 0.000850 | 0.00146 | 1 | 05/31/2024 02:40 | WG2295920 |
| Trichlorofluoromethane | U | | 0.00120 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2,3-Trichloropropane | U | | 0.00236 | 0.0182 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2,4-Trimethylbenzene | U | | 0.00230 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,2,3-Trimethylbenzene | U | | 0.00230 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| 1,3,5-Trimethylbenzene | U | | 0.00291 | 0.00728 | 1 | 05/31/2024 02:40 | WG2295920 |
| Vinyl chloride | U | | 0.00169 | 0.00364 | 1 | 05/31/2024 02:40 | WG2295920 |
| Xylenes, Total | U | | 0.00128 | 0.00946 | 1 | 05/31/2024 02:40 | WG2295920 |
| *(S) Toluene-d8* | *99.7* | | | *75.0-131* | | *05/31/2024 02:40* | WG2295920 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *05/31/2024 02:40* | WG2295920 |
| *(S) 1,2-Dichloroethane-d4* | *99.1* | | | *70.0-130* | | *05/31/2024 02:40* | WG2295920 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | 0.494 | | 0.100 | 0.200 | 1 | 05/26/2024 18:33 | WG2293140 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/28/2024 11:47 | WG2293147 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 50.6 | | 0.736 | 5.00 | 1 | 06/03/2024 17:06 | WG2296300 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/03/2024 17:06 | WG2296300 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/03/2024 17:06 | WG2296300 |
| Cobalt,Dissolved | 3.82 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:06 | WG2296300 |
| Molybdenum,Dissolved | 48.1 | | 1.16 | 5.00 | 1 | 06/03/2024 17:06 | WG2296300 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 06/03/2024 17:06 | WG2296300 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Arsenic | 1.40 | J | 0.180 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Arsenic,Dissolved | 0.791 | J | 0.180 | 2.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Barium | 138 | | 0.381 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Chromium | 10.9 | | 1.24 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Copper | 13.0 | | 1.51 | 5.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Copper,Dissolved | 2.56 | J | 1.51 | 5.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Cobalt | 13.9 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Lead | 3.88 | | 0.849 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Molybdenum | 13.1 | | 0.348 | 5.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Nickel | 33.7 | | 0.816 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Nickel,Dissolved | 7.62 | | 0.816 | 2.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Selenium | U | | 0.300 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/15/2024 13:15 | WG2296356 |
| Vanadium | 22.9 | | 0.664 | 5.00 | 1 | 06/12/2024 22:28 | WG2296474 |
| Zinc | 54.4 | | 3.02 | 25.0 | 1 | 06/12/2024 22:28 | WG2296474 |
| Zinc,Dissolved | 6.80 | J | 3.02 | 25.0 | 1 | 06/15/2024 13:15 | WG2296356 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 53.7 | B J | 30.4 | 100 | 1 | 05/29/2024 17:24 | WG2294783 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.6* | | | *78.0-120* | | *05/29/2024 17:24* | WG2294783 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/01/2024 03:19 | WG2296577 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/01/2024 03:19 | WG2296577 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/01/2024 03:19 | WG2296577 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/01/2024 03:19 | WG2296577 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/01/2024 03:19 | WG2296577 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/01/2024 03:19 | WG2296577 |
| Methyl tert-butyl ether | 1.03 | | 0.101 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |

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

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/01/2024 03:19 | WG2296577 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *06/01/2024 03:19* | WG2296577 |
| *(S) 4-Bromofluorobenzene* | *97.1* | | | *77.0-126* | | *06/01/2024 03:19* | WG2296577 |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* | | *06/01/2024 03:19* | WG2296577 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 53.7 | J | 33.0 | 100 | 1 | 06/02/2024 09:10 | WG2296326 |
| C22-C32 Hydrocarbons | 114 | | 33.0 | 100 | 1 | 06/02/2024 09:10 | WG2296326 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 09:10 | WG2296326 |
| *(S) o-Terphenyl* | *65.3* | | | *52.0-156* | | *06/02/2024 09:10* | WG2296326 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | 1.32 | | 0.100 | 0.200 | 1 | 05/26/2024 18:36 | WG2293140 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/28/2024 11:49 | WG2293147 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 50.0 | | 0.736 | 5.00 | 1 | 06/03/2024 17:08 | WG2296300 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/03/2024 17:08 | WG2296300 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/03/2024 17:08 | WG2296300 |
| Cobalt,Dissolved | 1.80 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:08 | WG2296300 |
| Molybdenum,Dissolved | 25.4 | | 1.16 | 5.00 | 1 | 06/03/2024 17:08 | WG2296300 |
| Vanadium,Dissolved | 7.31 | J | 4.99 | 20.0 | 1 | 06/03/2024 17:08 | WG2296300 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Arsenic | 3.82 | | 0.180 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Arsenic,Dissolved | 1.38 | J | 0.180 | 2.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Barium | 742 | | 0.381 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Beryllium | 8.59 | | 0.190 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Cadmium | 2.22 | | 0.150 | 1.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Chromium | 50.7 | | 1.24 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Copper | 100 | | 1.51 | 5.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Copper,Dissolved | 2.46 | J | 1.51 | 5.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Cobalt | 167 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Lead | 37.4 | | 0.849 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Molybdenum | 0.489 | J | 0.348 | 5.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Nickel | 330 | | 0.816 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Nickel,Dissolved | 5.66 | | 0.816 | 2.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Selenium | 0.753 | J | 0.300 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Silver | 0.0746 | J | 0.0700 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/15/2024 13:19 | WG2296356 |
| Vanadium | 121 | | 0.664 | 5.00 | 1 | 06/12/2024 22:32 | WG2296474 |
| Zinc | 223 | | 3.02 | 25.0 | 1 | 06/12/2024 22:32 | WG2296474 |
| Zinc,Dissolved | U | | 3.02 | 25.0 | 1 | 06/15/2024 13:19 | WG2296356 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 72.5 | B J | 30.4 | 100 | 1 | 05/29/2024 17:47 | WG2294783 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.2* | | | *78.0-120* | | *05/29/2024 17:47* | WG2294783 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/01/2024 03:38 | WG2296577 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/01/2024 03:38 | WG2296577 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/01/2024 03:38 | WG2296577 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/01/2024 03:38 | WG2296577 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,1-Dichloroethane | 0.302 | J | 0.100 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,1-Dichloroethene | 0.266 | J | 0.188 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| cis-1,2-Dichloroethene | 1.25 | | 0.126 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/01/2024 03:38 | WG2296577 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/01/2024 03:38 | WG2296577 |
| Methyl tert-butyl ether | 1.64 | | 0.101 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Tetrachloroethene | 5.57 | | 0.300 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Trichloroethene | 6.26 | | 0.190 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/01/2024 03:38 | WG2296577 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *06/01/2024 03:38* | WG2296577 |
| *(S) 4-Bromofluorobenzene* | *97.2* | | | *77.0-126* | | *06/01/2024 03:38* | WG2296577 |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* | | *06/01/2024 03:38* | WG2296577 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 102 | | 33.0 | 100 | 1 | 05/30/2024 09:45 | WG2294852 |
| C22-C32 Hydrocarbons | 166 | | 33.0 | 100 | 1 | 05/30/2024 09:45 | WG2294852 |
| C32-C40 Hydrocarbons | 89.1 | J | 33.0 | 100 | 1 | 06/02/2024 11:51 | WG2294852 |
| *(S) o-Terphenyl* | *71.1* | | | *52.0-156* | | *05/30/2024 09:45* | WG2294852 |
| *(S) o-Terphenyl* | *78.4* | | | *52.0-156* | | *06/02/2024 11:51* | WG2294852 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | 1.68 | | 0.100 | 0.200 | 1 | 05/26/2024 18:38 | WG2293140 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/28/2024 11:52 | WG2293147 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 47.1 | | 0.736 | 5.00 | 1 | 06/03/2024 17:09 | WG2296300 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/03/2024 17:09 | WG2296300 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/03/2024 17:09 | WG2296300 |
| Cobalt,Dissolved | 2.88 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:09 | WG2296300 |
| Molybdenum,Dissolved | 25.0 | | 1.16 | 5.00 | 1 | 06/03/2024 17:09 | WG2296300 |
| Vanadium,Dissolved | 7.42 | J | 4.99 | 20.0 | 1 | 06/03/2024 17:09 | WG2296300 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Arsenic | 3.75 | | 0.180 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Arsenic,Dissolved | 1.28 | J | 0.180 | 2.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Barium | 784 | | 0.381 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Beryllium | 9.33 | | 0.190 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Cadmium | 2.74 | | 0.150 | 1.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Chromium | 37.8 | | 1.24 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Copper | 83.7 | | 1.51 | 5.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Copper,Dissolved | 1.76 | J | 1.51 | 5.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Cobalt | 197 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Lead | 31.7 | | 0.849 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Molybdenum | 0.386 | J | 0.348 | 5.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Nickel | 364 | | 0.816 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Nickel,Dissolved | 4.30 | | 0.816 | 2.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Selenium | 0.773 | J | 0.300 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Silver | 0.0764 | J | 0.0700 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/15/2024 13:22 | WG2296356 |
| Vanadium | 117 | | 0.664 | 5.00 | 1 | 06/12/2024 22:35 | WG2296474 |
| Zinc | 182 | | 3.02 | 25.0 | 1 | 06/12/2024 22:35 | WG2296474 |
| Zinc,Dissolved | U | | 3.02 | 25.0 | 1 | 06/15/2024 13:22 | WG2296356 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 83.1 | B J | 30.4 | 100 | 1 | 05/29/2024 18:10 | WG2294783 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.2* | | | *78.0-120* | | *05/29/2024 18:10* | WG2294783 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/01/2024 03:57 | WG2296577 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/01/2024 03:57 | WG2296577 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/01/2024 03:57 | WG2296577 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/01/2024 03:57 | WG2296577 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,1-Dichloroethane | 0.298 | J | 0.100 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,1-Dichloroethene | 0.289 | J | 0.188 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| cis-1,2-Dichloroethene | 1.32 | | 0.126 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/01/2024 03:57 | WG2296577 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/01/2024 03:57 | WG2296577 |
| Methyl tert-butyl ether | 1.69 | | 0.101 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Tetrachloroethene | 6.10 | | 0.300 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Trichloroethene | 6.42 | | 0.190 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/01/2024 03:57 | WG2296577 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *06/01/2024 03:57* | WG2296577 |
| *(S) 4-Bromofluorobenzene* | *97.3* | | | *77.0-126* | | *06/01/2024 03:57* | WG2296577 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* | | *06/01/2024 03:57* | WG2296577 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 94.5 | J | 33.0 | 100 | 1 | 05/30/2024 10:05 | WG2294852 |
| C22-C32 Hydrocarbons | 136 | | 33.0 | 100 | 1 | 05/30/2024 10:05 | WG2294852 |
| C32-C40 Hydrocarbons | 88.7 | J | 33.0 | 100 | 1 | 05/30/2024 10:05 | WG2294852 |
| *(S) o-Terphenyl* | *72.6* | | | *52.0-156* | | *05/30/2024 10:05* | WG2294852 |

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

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/26/2024 18:41 | WG2293140 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/28/2024 11:54 | WG2293147 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 217 | | 0.736 | 5.00 | 1 | 06/03/2024 17:11 | WG2296300 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/03/2024 17:11 | WG2296300 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/03/2024 17:11 | WG2296300 |
| Cobalt,Dissolved | 2.11 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:11 | WG2296300 |
| Molybdenum,Dissolved | 5.52 | | 1.16 | 5.00 | 1 | 06/03/2024 17:11 | WG2296300 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 06/03/2024 17:11 | WG2296300 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Arsenic | 11.6 | | 0.180 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Arsenic,Dissolved | 18.5 | | 0.180 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Barium | 201 | | 0.381 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Beryllium | 0.301 | J | 0.190 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Cadmium | 0.320 | J | 0.150 | 1.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Chromium | 11.5 | | 1.24 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Copper | 28.4 | | 1.51 | 5.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Copper,Dissolved | U | | 1.51 | 5.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Cobalt | 7.26 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Lead | 11.6 | | 0.849 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Molybdenum | 0.634 | J | 0.348 | 5.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Nickel | 23.0 | | 0.816 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Nickel,Dissolved | 4.62 | | 0.816 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Selenium | 0.733 | J | 0.300 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Selenium,Dissolved | 0.604 | J | 0.300 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/15/2024 13:25 | WG2296356 |
| Vanadium | 20.3 | | 0.664 | 5.00 | 1 | 06/12/2024 22:38 | WG2296474 |
| Zinc | 36.0 | | 3.02 | 25.0 | 1 | 06/12/2024 22:38 | WG2296474 |
| Zinc,Dissolved | 3.19 | J | 3.02 | 25.0 | 1 | 06/15/2024 13:25 | WG2296356 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 53.5 | B J | 30.4 | 100 | 1 | 05/29/2024 18:33 | WG2294783 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.1* | | | *78.0-120* | | *05/29/2024 18:33* | WG2294783 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/01/2024 04:16 | WG2296577 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/01/2024 04:16 | WG2296577 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/01/2024 04:16 | WG2296577 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/01/2024 04:16 | WG2296577 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,1-Dichloroethane | 1.27 | | 0.100 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,1-Dichloroethene | 0.213 | J | 0.188 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| cis-1,2-Dichloroethene | 0.203 | J | 0.126 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/01/2024 04:16 | WG2296577 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/01/2024 04:16 | WG2296577 |
| Methyl tert-butyl ether | 0.223 | J | 0.101 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Vinyl chloride | 2.81 | | 0.234 | 1.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/01/2024 04:16 | WG2296577 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *06/01/2024 04:16* | WG2296577 |
| *(S) 4-Bromofluorobenzene* | *95.0* | | | *77.0-126* | | *06/01/2024 04:16* | WG2296577 |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* | | *06/01/2024 04:16* | WG2296577 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 122 | | 33.0 | 100 | 1 | 06/02/2024 09:30 | WG2296326 |
| C22-C32 Hydrocarbons | 247 | | 33.0 | 100 | 1 | 06/02/2024 09:30 | WG2296326 |
| C32-C40 Hydrocarbons | 91.6 | J | 33.0 | 100 | 1 | 06/02/2024 09:30 | WG2296326 |
| *(S) o-Terphenyl* | *65.3* | | | *52.0-156* | | *06/02/2024 09:30* | WG2296326 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | 0.139 | J | 0.100 | 0.200 | 1 | 05/26/2024 18:43 | WG2293140 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/28/2024 11:56 | WG2293147 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 195 | | 0.736 | 5.00 | 1 | 06/03/2024 17:13 | WG2296300 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/03/2024 17:13 | WG2296300 |
| Chromium,Dissolved | 1.43 | J | 1.40 | 10.0 | 1 | 06/03/2024 17:13 | WG2296300 |
| Cobalt,Dissolved | 2.25 | B J | 0.840 | 10.0 | 1 | 06/03/2024 17:13 | WG2296300 |
| Molybdenum,Dissolved | 56.9 | | 1.16 | 5.00 | 1 | 06/03/2024 17:13 | WG2296300 |
| Vanadium,Dissolved | 7.84 | J | 4.99 | 20.0 | 1 | 06/03/2024 17:13 | WG2296300 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Antimony,Dissolved | 3.88 | J | 1.03 | 4.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Arsenic | 8.59 | | 0.180 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Arsenic,Dissolved | 13.1 | | 0.180 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Barium | 384 | | 0.381 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Beryllium | 0.553 | J | 0.190 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Cadmium | 0.297 | J | 0.150 | 1.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Chromium | 24.5 | | 1.24 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Copper | 92.0 | | 1.51 | 5.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Copper,Dissolved | 6.36 | | 1.51 | 5.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Cobalt | 13.6 | | 0.0596 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Lead | 38.1 | | 0.849 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Molybdenum | 14.0 | | 0.348 | 5.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Nickel | 43.7 | | 0.816 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Nickel,Dissolved | 7.36 | | 0.816 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Selenium | 0.327 | J | 0.300 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Selenium,Dissolved | 0.327 | J | 0.300 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/15/2024 13:29 | WG2296356 |
| Vanadium | 42.9 | | 0.664 | 5.00 | 1 | 06/12/2024 22:41 | WG2296474 |
| Zinc | 81.6 | | 3.02 | 25.0 | 1 | 06/12/2024 22:41 | WG2296474 |
| Zinc,Dissolved | 4.04 | J | 3.02 | 25.0 | 1 | 06/15/2024 13:29 | WG2296356 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 79.4 | B J | 30.4 | 100 | 1 | 05/29/2024 18:56 | WG2294783 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.4* | | | *78.0-120* | | *05/29/2024 18:56* | WG2294783 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 24.8 | J | 11.3 | 50.0 | 1 | 06/01/2024 04:35 | WG2296577 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/01/2024 04:35 | WG2296577 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/01/2024 04:35 | WG2296577 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/01/2024 04:35 | WG2296577 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,1-Dichloroethane | 0.421 | J | 0.100 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 2-Butanone (MEK) | 3.87 | J | 1.19 | 10.0 | 1 | 06/01/2024 04:35 | WG2296577 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/01/2024 04:35 | WG2296577 |
| Methyl tert-butyl ether | 0.211 | J | 0.101 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Vinyl chloride | 1.26 | | 0.234 | 1.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/01/2024 04:35 | WG2296577 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *06/01/2024 04:35* | WG2296577 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *77.0-126* | | *06/01/2024 04:35* | WG2296577 |
| *(S) 1,2-Dichloroethane-d4* | *98.8* | | | *70.0-130* | | *06/01/2024 04:35* | WG2296577 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1670 | | 33.0 | 100 | 1 | 05/30/2024 10:46 | WG2294852 |
| C22-C32 Hydrocarbons | 700 | | 33.0 | 100 | 1 | 05/30/2024 10:46 | WG2294852 |
| C32-C40 Hydrocarbons | 311 | | 33.0 | 100 | 1 | 06/02/2024 12:11 | WG2294852 |
| *(S) o-Terphenyl* | *78.4* | | | *52.0-156* | | *06/02/2024 12:11* | WG2294852 |
| *(S) o-Terphenyl* | *66.3* | | | *52.0-156* | | *05/30/2024 10:46* | WG2294852 |

## Method Blank (MB)

(MB) R4074411-1 05/27/24 10:05

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

## L1740196-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1740196-06 05/27/24 10:05 • (DUP) R4074411-3 05/27/24 10:05

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 96.9 | 96.9 | 1 | 0.00413 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074411-2 05/27/24 10:05

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1740224-05,06,07,08,10,12,13,14,15,16

## Method Blank (MB)

(MB) R4074410-1 05/27/24 09:58

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

## L1740224-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1740224-14 05/27/24 09:58 • (DUP) R4074410-3 05/27/24 09:58

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 82.0 | 81.7 | 1 | 0.303 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074410-2 05/27/24 09:58

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4074408-1 05/27/24 09:51

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

## L1740233-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1740233-01 05/27/24 09:51 • (DUP) R4074408-3 05/27/24 09:51

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 73.2 | 77.4 | 1 | 5.63 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4074408-2 05/27/24 09:51

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4087024-1 06/26/24 13:44

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

## L1739342-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1739342-11 06/26/24 13:44 • (DUP) R4087024-3 06/26/24 13:44

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.7 | 85.8 | 1 | 1.28 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4087024-2 06/26/24 13:44

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1740224-20,28,29,30,31,32

## Method Blank (MB)

(MB) R4074184-5 05/26/24 20:09

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4074184-1 05/26/24 18:05

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 3.31 | 110 | 80.0-120 | |

## L1740166-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740166-01 05/26/24 18:08 • (MS) R4074184-3 05/26/24 18:13 • (MSD) R4074184-4 05/26/24 18:16

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 3.44 | 3.47 | 115 | 116 | 1 | 75.0-125 | | | 0.741 | 20 |

## Method Blank (MB)

(MB) R4074501-1 05/28/24 11:00

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury,Dissolved | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4074501-2 05/28/24 11:08

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | 2.93 | 97.7 | 80.0-120 | |

## L1740200-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740200-02 05/28/24 11:10 • (MS) R4074501-4 05/28/24 11:15 • (MSD) R4074501-5 05/28/24 11:17

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | U | 2.94 | 2.89 | 98.0 | 96.3 | 1 | 75.0-125 | | | 1.74 | 20 |

# QUALITY CONTROL SUMMARY

L1740224-01,02,03,06,07,08,21

## Method Blank (MB)

(MB) R4074183-1 05/26/24 19:00

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4074183-2 05/26/24 19:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.497 | 99.4 | 80.0-120 | |

## L1740224-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740224-01 05/26/24 19:05 • (MS) R4074183-4 05/26/24 19:10 • (MSD) R4074183-5 05/26/24 19:17

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.524 | U | U | 0.0453 | 0.000 | 8.65 | 1 | 75.0-125 | J6 | J3 J6 | 200 | 20 |

## Method Blank (MB)

(MB) R4074725-1 05/28/24 18:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4074725-2 05/28/24 18:22

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.532 | 106 | 80.0-120 | |

## L1740403-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740403-02 05/28/24 18:24 • (MS) R4074725-4 05/28/24 18:29 • (MSD) R4074725-5 05/28/24 18:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.538 | U | 0.469 | 0.464 | 87.2 | 86.2 | 1 | 75.0-125 | | | 1.18 | 20 |

# QUALITY CONTROL SUMMARY

L1740224-20,28,29,30,31,32

## Method Blank (MB)

(MB) R4076715-1 06/03/24 16:26

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | U | | 0.736 | 5.00 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 |
| Chromium,Dissolved | U | | 1.40 | 10.0 |
| Cobalt,Dissolved | 1.11 | J | 0.840 | 10.0 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 |

## Laboratory Control Sample (LCS)

(LCS) R4076715-2 06/03/24 16:28

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 990 | 99.0 | 80.0-120 | |
| Beryllium,Dissolved | 1000 | 961 | 96.1 | 80.0-120 | |
| Chromium,Dissolved | 1000 | 991 | 99.1 | 80.0-120 | |
| Cobalt,Dissolved | 1000 | 920 | 92.0 | 80.0-120 | |
| Molybdenum,Dissolved | 1000 | 967 | 96.7 | 80.0-120 | |
| Vanadium,Dissolved | 1000 | 955 | 95.5 | 80.0-120 | |

## L1740200-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740200-04 06/03/24 16:29 • (MS) R4076715-4 06/03/24 16:33 • (MSD) R4076715-5 06/03/24 16:34

| Analyte | Spike Amount ug/l | Original Result | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | | 1060 | 1080 | 97.3 | 99.5 | 1 | 75.0-125 | | | 2.03 | 20 |
| Beryllium,Dissolved | 1000 | | 967 | 982 | 96.7 | 98.2 | 1 | 75.0-125 | | | 1.53 | 20 |
| Chromium,Dissolved | 1000 | 2.16 | 989 | 1000 | 98.7 | 100 | 1 | 75.0-125 | | | 1.51 | 20 |
| Cobalt,Dissolved | 1000 | | 924 | 944 | 92.3 | 94.3 | 1 | 75.0-125 | | | 2.16 | 20 |
| Molybdenum,Dissolved | 1000 | | 1030 | 1050 | 96.7 | 98.2 | 1 | 75.0-125 | | | 1.51 | 20 |
| Vanadium,Dissolved | 1000 | | 961 | 975 | 96.1 | 97.5 | 1 | 75.0-125 | | | 1.48 | 20 |

## Method Blank (MB)

(MB) R4077339-1 06/04/24 23:22

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | 0.146 | J | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077339-2 06/04/24 23:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 92.9 | 92.9 | 80.0-120 | |
| Arsenic | 100 | 91.6 | 91.6 | 80.0-120 | |
| Barium | 100 | 94.7 | 94.7 | 80.0-120 | |
| Beryllium | 100 | 91.7 | 91.7 | 80.0-120 | |
| Cadmium | 100 | 89.4 | 89.4 | 80.0-120 | |
| Chromium | 100 | 96.2 | 96.2 | 80.0-120 | |
| Cobalt | 100 | 91.0 | 91.0 | 80.0-120 | |
| Copper | 100 | 92.7 | 92.7 | 80.0-120 | |
| Lead | 100 | 94.8 | 94.8 | 80.0-120 | |
| Molybdenum | 100 | 95.5 | 95.5 | 80.0-120 | |
| Nickel | 100 | 89.2 | 89.2 | 80.0-120 | |
| Selenium | 100 | 89.6 | 89.6 | 80.0-120 | |
| Silver | 20.0 | 18.8 | 93.9 | 80.0-120 | |
| Thallium | 100 | 94.5 | 94.5 | 80.0-120 | |
| Vanadium | 100 | 90.7 | 90.7 | 80.0-120 | |
| Zinc | 100 | 93.6 | 93.6 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1740224-01,02,03,06,07,08,21,22,23

## L1742687-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742687-01 06/04/24 23:26 • (MS) R4077339-5 06/04/24 23:31 • (MSD) R4077339-6 06/04/24 23:32

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 100 | 8.35 | 85.1 | 84.3 | 76.8 | 76.0 | 1 | 75.0-125 | | | 0.957 | 20 |
| Arsenic | 100 | 101 | 222 | 112 | 120 | 10.6 | 1 | 75.0-125 | | J3 J6 | 65.8 | 20 |
| Barium | 100 | 34.5 | 148 | 140 | 113 | 105 | 1 | 75.0-125 | | | 5.58 | 20 |
| Beryllium | 100 | 3.97 | 101 | 104 | 96.7 | 100 | 1 | 75.0-125 | | | 3.40 | 20 |
| Cadmium | 100 | U | 98.9 | 101 | 98.9 | 101 | 1 | 75.0-125 | | | 2.44 | 20 |
| Chromium | 100 | 58.0 | 181 | 137 | 123 | 79.2 | 1 | 75.0-125 | | J3 | 27.3 | 20 |
| Cobalt | 100 | 4.32 | 101 | 101 | 96.6 | 96.9 | 1 | 75.0-125 | | | 0.255 | 20 |
| Copper | 100 | 8.02 | 115 | 119 | 107 | 111 | 1 | 75.0-125 | | | 3.71 | 20 |
| Lead | 100 | 82.4 | 186 | 145 | 103 | 63.1 | 1 | 75.0-125 | | J3 J6 | 24.3 | 20 |
| Molybdenum | 100 | U | 62.1 | 62.5 | 62.1 | 62.5 | 1 | 75.0-125 | J6 | J6 | 0.725 | 20 |
| Nickel | 100 | 34.0 | 129 | 123 | 94.7 | 88.7 | 1 | 75.0-125 | | | 4.78 | 20 |
| Selenium | 100 | U | 19.9 | 25.5 | 19.9 | 25.5 | 1 | 75.0-125 | J6 | J3 J6 | 24.9 | 20 |
| Silver | 20.0 | 36.5 | 58.1 | 39.2 | 108 | 13.9 | 1 | 75.0-125 | | J3 J6 | 38.8 | 20 |
| Thallium | 100 | 8.12 | 104 | 105 | 95.5 | 96.6 | 1 | 75.0-125 | | | 1.14 | 20 |
| Vanadium | 100 | 337 | 421 | 361 | 84.0 | 23.9 | 1 | 75.0-125 | | J6 | 15.4 | 20 |
| Zinc | 100 | 4030 | 4180 | 4190 | 147 | 152 | 1 | 75.0-125 | E V | E V | 0.105 | 20 |

## Method Blank (MB)

(MB) R4087553-1 06/27/24 20:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Nickel | 0.181 | J | 0.132 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4087553-2 06/27/24 20:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Nickel | 100 | 97.7 | 97.7 | 80.0-120 | |

## L1750258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1750258-01 06/27/24 20:05 • (MS) R4087553-5 06/27/24 20:10 • (MSD) R4087553-6 06/27/24 20:12

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nickel | 114 | 4.00 | 111 | 112 | 93.9 | 94.8 | 1 | 75.0-125 | | | 0.879 | 20 |

# QUALITY CONTROL SUMMARY

L1740224-20,28,29,30,31,32

## Method Blank (MB)

(MB) R4082125-1 06/15/24 11:42

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony,Dissolved | U | | 1.03 | 4.00 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 |
| Copper,Dissolved | U | | 1.51 | 5.00 |
| Lead,Dissolved | U | | 0.849 | 2.00 |
| Nickel,Dissolved | U | | 0.816 | 2.00 |
| Selenium,Dissolved | U | | 0.300 | 2.00 |
| Silver,Dissolved | U | | 0.0700 | 2.00 |
| Thallium,Dissolved | U | | 0.121 | 2.00 |
| Zinc,Dissolved | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4082125-6 06/15/24 12:32

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | 52.1 | 104 | 80.0-120 | |
| Arsenic,Dissolved | 50.0 | 50.6 | 101 | 80.0-120 | |
| Cadmium,Dissolved | 50.0 | 50.9 | 102 | 80.0-120 | |
| Copper,Dissolved | 50.0 | 50.3 | 101 | 80.0-120 | |
| Lead,Dissolved | 50.0 | 48.8 | 97.6 | 80.0-120 | |
| Nickel,Dissolved | 50.0 | 53.0 | 106 | 80.0-120 | |
| Selenium,Dissolved | 50.0 | 50.8 | 102 | 80.0-120 | |
| Silver,Dissolved | 50.0 | 51.3 | 103 | 80.0-120 | |
| Thallium,Dissolved | 50.0 | 48.0 | 96.1 | 80.0-120 | |
| Zinc,Dissolved | 50.0 | 49.3 | 98.7 | 80.0-120 | |

## L1740200-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740200-01 06/15/24 11:49 • (MS) R4082125-4 06/15/24 11:55 • (MSD) R4082125-5 06/15/24 11:59

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | | 59.3 | 59.0 | 119 | 118 | 1 | 75.0-125 | | | 0.550 | 20 |
| Arsenic,Dissolved | 50.0 | 5.41 | 60.6 | 60.9 | 110 | 111 | 1 | 75.0-125 | | | 0.474 | 20 |
| Cadmium,Dissolved | 50.0 | | 58.7 | 58.3 | 117 | 117 | 1 | 75.0-125 | | | 0.632 | 20 |
| Copper,Dissolved | 50.0 | | 56.4 | 54.6 | 110 | 106 | 1 | 75.0-125 | | | 3.20 | 20 |
| Lead,Dissolved | 50.0 | U | 56.1 | 56.7 | 112 | 113 | 1 | 75.0-125 | | | 1.05 | 20 |
| Nickel,Dissolved | 50.0 | | 56.5 | 55.4 | 113 | 111 | 1 | 75.0-125 | | | 2.00 | 20 |
| Selenium,Dissolved | 50.0 | | 57.1 | 57.1 | 114 | 114 | 1 | 75.0-125 | | | 0.0387 | 20 |

## L1740200-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740200-01 06/15/24 11:49 • (MS) R4082125-4 06/15/24 11:55 • (MSD) R4082125-5 06/15/24 11:59

| Analyte | Spike Amount ug/l | Original Result | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver,Dissolved | 50.0 | | 59.0 | 57.8 | 118 | 116 | 1 | 75.0-125 | | | 2.14 | 20 |
| Thallium,Dissolved | 50.0 | | 54.3 | 55.7 | 109 | 111 | 1 | 75.0-125 | | | 2.55 | 20 |
| Zinc,Dissolved | 50.0 | U | 61.1 | 60.6 | 122 | 121 | 1 | 75.0-125 | | | 0.693 | 20 |

## Method Blank (MB)

(MB) R4080959-1 06/12/24 20:58

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | 1.25 | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4080959-2 06/12/24 21:01

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 56.9 | 114 | 80.0-120 | |
| Arsenic | 50.0 | 51.5 | 103 | 80.0-120 | |
| Barium | 50.0 | 49.7 | 99.4 | 80.0-120 | |
| Beryllium | 50.0 | 48.4 | 96.7 | 80.0-120 | |
| Cadmium | 50.0 | 53.9 | 108 | 80.0-120 | |
| Chromium | 50.0 | 52.9 | 106 | 80.0-120 | |
| Copper | 50.0 | 48.7 | 97.4 | 80.0-120 | |
| Cobalt | 50.0 | 53.2 | 106 | 80.0-120 | |
| Lead | 50.0 | 50.4 | 101 | 80.0-120 | |
| Molybdenum | 50.0 | 51.2 | 102 | 80.0-120 | |
| Nickel | 50.0 | 52.8 | 106 | 80.0-120 | |
| Selenium | 50.0 | 51.0 | 102 | 80.0-120 | |
| Silver | 50.0 | 54.1 | 108 | 80.0-120 | |
| Thallium | 50.0 | 50.5 | 101 | 80.0-120 | |
| Vanadium | 50.0 | 52.0 | 104 | 80.0-120 | |
| Zinc | 50.0 | 50.6 | 101 | 80.0-120 | |

## L1740163-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740163-06 06/12/24 21:05 • (MS) R4080959-4 06/12/24 21:11 • (MSD) R4080959-5 06/12/24 21:14

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 59.3 | 59.5 | 119 | 119 | 1 | 75.0-125 | | | 0.344 | 20 |
| Arsenic | 50.0 | 0.420 | 52.4 | 53.9 | 104 | 107 | 1 | 75.0-125 | | | 2.84 | 20 |
| Barium | 50.0 | 322 | 393 | 387 | 142 | 130 | 1 | 75.0-125 | V | V | 1.54 | 20 |
| Beryllium | 50.0 | U | 49.6 | 47.8 | 99.3 | 95.5 | 1 | 75.0-125 | | | 3.85 | 20 |
| Cadmium | 50.0 | U | 54.9 | 57.5 | 110 | 115 | 1 | 75.0-125 | | | 4.64 | 20 |
| Chromium | 50.0 | U | 52.7 | 53.4 | 105 | 107 | 1 | 75.0-125 | | | 1.31 | 20 |
| Copper | 50.0 | 1.89 | 49.2 | 49.4 | 94.7 | 95.1 | 1 | 75.0-125 | | | 0.405 | 20 |
| Cobalt | 50.0 | 0.783 | 52.9 | 53.8 | 104 | 106 | 1 | 75.0-125 | | | 1.60 | 20 |
| Lead | 50.0 | U | 51.5 | 52.1 | 103 | 104 | 1 | 75.0-125 | | | 1.27 | 20 |
| Molybdenum | 50.0 | 0.688 | 55.3 | 54.6 | 111 | 109 | 1 | 75.0-125 | | | 1.25 | 20 |
| Nickel | 50.0 | 1.36 | 54.1 | 54.0 | 105 | 105 | 1 | 75.0-125 | | | 0.155 | 20 |
| Selenium | 50.0 | 6.30 | 59.5 | 58.9 | 106 | 105 | 1 | 75.0-125 | | | 1.04 | 20 |
| Silver | 50.0 | U | 56.8 | 55.4 | 114 | 111 | 1 | 75.0-125 | | | 2.42 | 20 |
| Thallium | 50.0 | U | 50.5 | 50.7 | 101 | 101 | 1 | 75.0-125 | | | 0.409 | 20 |
| Vanadium | 50.0 | 1.79 | 54.5 | 54.9 | 105 | 106 | 1 | 75.0-125 | | | 0.713 | 20 |
| Zinc | 50.0 | 3.70 | 55.3 | 54.9 | 111 | 110 | 1 | 75.0-125 | | | 0.781 | 20 |

## Method Blank (MB)

(MB) R4076521-3 05/29/24 11:49

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | 69.6 | J | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.0* | | | *78.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076521-1 05/29/24 10:13 • (LCSD) R4076521-2 05/29/24 10:36

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 4400 | 5250 | 88.0 | 105 | 71.0-127 | | | 17.6 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *107* | *109* | *78.0-120* | | | | |

## Method Blank (MB)

(MB) R4076642-2 05/30/24 02:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.05 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4076642-1 05/30/24 00:57

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.52 | 90.4 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *102* | *77.0-120* | |

## Method Blank (MB)

(MB) R4076304-2 05/30/24 16:14

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 2.23 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4076304-1 05/30/24 15:35

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.90 | 98.0 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## L1739865-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739865-29 05/30/24 17:31 • (MS) R4076304-3 05/30/24 23:40 • (MSD) R4076304-4 05/30/24 23:59

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 227 | 2.74 | 251 | 253 | 109 | 110 | 25 | 10.0-141 | | | 0.722 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *103* | *102* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4076443-2 06/03/24 00:32

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.38 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4076443-1 06/02/24 23:29

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.49 | 89.8 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *99.7* | *77.0-120* | |

## Method Blank (MB)

(MB) R4076890-3 06/03/24 12:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.69 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.5* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076890-1 06/03/24 10:43 • (LCSD) R4076890-2 06/03/24 11:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.62 | 5.55 | 112 | 111 | 72.0-125 | | | 1.25 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *100* | *102* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4078313-3 06/06/24 11:23

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.60 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078313-1 06/06/24 09:49 • (LCSD) R4078313-2 06/06/24 10:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.40 | 5.38 | 108 | 108 | 72.0-125 | | | 0.371 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *100* | *103* | *77.0-120* | | | | |

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

## Method Blank (MB)

(MB) R4078688-5 06/07/24 03:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078688-1 06/06/24 22:36 • (LCSD) R4078688-2 06/06/24 22:59

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.55 | 4.18 | 91.0 | 83.6 | 72.0-125 | | | 8.48 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *100* | *98.2* | *77.0-120* | | | | |

## L1740668-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-12 06/07/24 08:13 • (MS) R4078688-6 06/07/24 13:37 • (MSD) R4078688-7 06/07/24 14:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 151 | 1.52 | 154 | 170 | 101 | 112 | 25 | 10.0-141 | | | 9.81 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *102* | *104* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4076274-3 05/30/24 17:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4076274-3 05/30/24 17:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *95.7* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *94.8* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *82.9* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076274-1 05/30/24 15:20 • (LCSD) R4076274-2 05/30/24 15:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.856 | 0.971 | 137 | 155 | 10.0-160 | | | 12.6 | 31 |
| Acrylonitrile | 0.625 | 0.620 | 0.628 | 99.2 | 100 | 45.0-153 | | | 1.28 | 22 |
| Benzene | 0.125 | 0.115 | 0.110 | 92.0 | 88.0 | 70.0-123 | | | 4.44 | 20 |
| Bromobenzene | 0.125 | 0.118 | 0.115 | 94.4 | 92.0 | 73.0-121 | | | 2.58 | 20 |
| Bromodichloromethane | 0.125 | 0.113 | 0.111 | 90.4 | 88.8 | 73.0-121 | | | 1.79 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076274-1 05/30/24 15:20 • (LCSD) R4076274-2 05/30/24 15:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.105 | 0.111 | 84.0 | 88.8 | 64.0-132 | | | 5.56 | 20 |
| Bromomethane | 0.125 | 0.133 | 0.131 | 106 | 105 | 56.0-147 | | | 1.52 | 20 |
| n-Butylbenzene | 0.125 | 0.0992 | 0.0989 | 79.4 | 79.1 | 68.0-135 | | | 0.303 | 20 |
| sec-Butylbenzene | 0.125 | 0.117 | 0.117 | 93.6 | 93.6 | 74.0-130 | | | 0.000 | 20 |
| tert-Butylbenzene | 0.125 | 0.0950 | 0.0912 | 76.0 | 73.0 | 75.0-127 | | J4 | 4.08 | 20 |
| Carbon tetrachloride | 0.125 | 0.117 | 0.113 | 93.6 | 90.4 | 66.0-128 | | | 3.48 | 20 |
| Chlorobenzene | 0.125 | 0.117 | 0.117 | 93.6 | 93.6 | 76.0-128 | | | 0.000 | 20 |
| Chlorodibromomethane | 0.125 | 0.101 | 0.101 | 80.8 | 80.8 | 74.0-127 | | | 0.000 | 20 |
| Chloroethane | 0.125 | 0.156 | 0.155 | 125 | 124 | 61.0-134 | | | 0.643 | 20 |
| Chloroform | 0.125 | 0.116 | 0.115 | 92.8 | 92.0 | 72.0-123 | | | 0.866 | 20 |
| Chloromethane | 0.125 | 0.140 | 0.132 | 112 | 106 | 51.0-138 | | | 5.88 | 20 |
| 2-Chlorotoluene | 0.125 | 0.106 | 0.111 | 84.8 | 88.8 | 75.0-124 | | | 4.61 | 20 |
| 4-Chlorotoluene | 0.125 | 0.112 | 0.109 | 89.6 | 87.2 | 75.0-124 | | | 2.71 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.106 | 0.109 | 84.8 | 87.2 | 59.0-130 | | | 2.79 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.108 | 0.106 | 86.4 | 84.8 | 74.0-128 | | | 1.87 | 20 |
| Dibromomethane | 0.125 | 0.117 | 0.119 | 93.6 | 95.2 | 75.0-122 | | | 1.69 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 76.0-124 | | | 3.45 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.117 | 0.117 | 93.6 | 93.6 | 76.0-125 | | | 0.000 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.118 | 0.113 | 94.4 | 90.4 | 77.0-121 | | | 4.33 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.123 | 0.118 | 98.4 | 94.4 | 43.0-156 | | | 4.15 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.125 | 0.120 | 100 | 96.0 | 70.0-127 | | | 4.08 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.104 | 0.104 | 83.2 | 83.2 | 65.0-131 | | | 0.000 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.121 | 0.114 | 96.8 | 91.2 | 65.0-131 | | | 5.96 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.115 | 0.113 | 92.0 | 90.4 | 73.0-125 | | | 1.75 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.120 | 0.116 | 96.0 | 92.8 | 71.0-125 | | | 3.39 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.115 | 0.112 | 92.0 | 89.6 | 74.0-125 | | | 2.64 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.116 | 0.107 | 92.8 | 85.6 | 73.0-125 | | | 8.07 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.119 | 0.120 | 95.2 | 96.0 | 80.0-125 | | | 0.837 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.109 | 0.115 | 87.2 | 92.0 | 76.0-127 | | | 5.36 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.0985 | 0.0983 | 78.8 | 78.6 | 73.0-127 | | | 0.203 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.115 | 0.108 | 92.0 | 86.4 | 59.0-135 | | | 6.28 | 20 |
| Di-isopropyl ether | 0.125 | 0.119 | 0.120 | 95.2 | 96.0 | 60.0-136 | | | 0.837 | 20 |
| Ethylbenzene | 0.125 | 0.117 | 0.107 | 93.6 | 85.6 | 74.0-126 | | | 8.93 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.104 | 0.0983 | 83.2 | 78.6 | 57.0-150 | | | 5.64 | 20 |
| Isopropylbenzene | 0.125 | 0.115 | 0.110 | 92.0 | 88.0 | 72.0-127 | | | 4.44 | 20 |
| p-Isopropyltoluene | 0.125 | 0.0977 | 0.0928 | 78.2 | 74.2 | 72.0-133 | | | 5.14 | 20 |
| 2-Butanone (MEK) | 0.625 | 1.02 | 1.02 | 163 | 163 | 30.0-160 | J4 | J4 | 0.000 | 24 |
| Methylene Chloride | 0.125 | 0.128 | 0.120 | 102 | 96.0 | 68.0-123 | | | 6.45 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.586 | 0.580 | 93.8 | 92.8 | 56.0-143 | | | 1.03 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.118 | 0.120 | 94.4 | 96.0 | 66.0-132 | | | 1.68 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076274-1 05/30/24 15:20 • (LCSD) R4076274-2 05/30/24 15:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.109 | 0.108 | 87.2 | 86.4 | 59.0-130 | | | 0.922 | 20 |
| n-Propylbenzene | 0.125 | 0.113 | 0.107 | 90.4 | 85.6 | 74.0-126 | | | 5.45 | 20 |
| Styrene | 0.125 | 0.111 | 0.108 | 88.8 | 86.4 | 72.0-127 | | | 2.74 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.111 | 0.109 | 88.8 | 87.2 | 74.0-129 | | | 1.82 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.113 | 0.105 | 90.4 | 84.0 | 68.0-128 | | | 7.34 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.121 | 0.115 | 96.8 | 92.0 | 61.0-139 | | | 5.08 | 20 |
| Tetrachloroethene | 0.125 | 0.108 | 0.103 | 86.4 | 82.4 | 70.0-136 | | | 4.74 | 20 |
| Toluene | 0.125 | 0.108 | 0.0994 | 86.4 | 79.5 | 75.0-121 | | | 8.29 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.107 | 0.107 | 85.6 | 85.6 | 59.0-139 | | | 0.000 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.107 | 0.104 | 85.6 | 83.2 | 62.0-137 | | | 2.84 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.117 | 0.115 | 93.6 | 92.0 | 69.0-126 | | | 1.72 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.119 | 0.114 | 95.2 | 91.2 | 78.0-123 | | | 4.29 | 20 |
| Trichloroethene | 0.125 | 0.122 | 0.111 | 97.6 | 88.8 | 76.0-126 | | | 9.44 | 20 |
| Trichlorofluoromethane | 0.125 | 0.148 | 0.148 | 118 | 118 | 61.0-142 | | | 0.000 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.115 | 0.104 | 92.0 | 83.2 | 67.0-129 | | | 10.0 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.0980 | 0.0938 | 78.4 | 75.0 | 70.0-126 | | | 4.38 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.114 | 0.108 | 91.2 | 86.4 | 74.0-124 | | | 5.41 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.109 | 0.0995 | 87.2 | 79.6 | 73.0-127 | | | 9.11 | 20 |
| Vinyl chloride | 0.125 | 0.147 | 0.139 | 118 | 111 | 63.0-134 | | | 5.59 | 20 |
| Xylenes, Total | 0.375 | 0.336 | 0.323 | 89.6 | 86.1 | 72.0-127 | | | 3.95 | 20 |
| *(S) Toluene-d8* | | | | *93.3* | *92.8* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.3* | *99.8* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *95.4* | *96.6* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4076096-3 05/30/24 20:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

Cp
Tc
Ss
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## Method Blank (MB)

(MB) R4076096-3 05/30/24 20:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *96.6* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *95.9* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076096-1 05/30/24 17:29 • (LCSD) R4076096-2 05/30/24 17:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 1.13 | 1.35 | 181 | 216 | 10.0-160 | J4 | J4 | 17.7 | 31 |
| Acrylonitrile | 0.625 | 0.796 | 0.908 | 127 | 145 | 45.0-153 | | | 13.1 | 22 |
| Benzene | 0.125 | 0.114 | 0.112 | 91.2 | 89.6 | 70.0-123 | | | 1.77 | 20 |
| Bromobenzene | 0.125 | 0.106 | 0.113 | 84.8 | 90.4 | 73.0-121 | | | 6.39 | 20 |
| Bromodichloromethane | 0.125 | 0.121 | 0.123 | 96.8 | 98.4 | 73.0-121 | | | 1.64 | 20 |

# QUALITY CONTROL SUMMARY

L1740224-22,25,27

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076096-1 05/30/24 17:29 • (LCSD) R4076096-2 05/30/24 17:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.109 | 0.111 | 87.2 | 88.8 | 64.0-132 | | | 1.82 | 20 |
| Bromomethane | 0.125 | 0.119 | 0.118 | 95.2 | 94.4 | 56.0-147 | | | 0.844 | 20 |
| n-Butylbenzene | 0.125 | 0.103 | 0.103 | 82.4 | 82.4 | 68.0-135 | | | 0.000 | 20 |
| sec-Butylbenzene | 0.125 | 0.119 | 0.120 | 95.2 | 96.0 | 74.0-130 | | | 0.837 | 20 |
| tert-Butylbenzene | 0.125 | 0.117 | 0.122 | 93.6 | 97.6 | 75.0-127 | | | 4.18 | 20 |
| Carbon tetrachloride | 0.125 | 0.131 | 0.128 | 105 | 102 | 66.0-128 | | | 2.32 | 20 |
| Chlorobenzene | 0.125 | 0.109 | 0.111 | 87.2 | 88.8 | 76.0-128 | | | 1.82 | 20 |
| Chlorodibromomethane | 0.125 | 0.112 | 0.115 | 89.6 | 92.0 | 74.0-127 | | | 2.64 | 20 |
| Chloroethane | 0.125 | 0.124 | 0.129 | 99.2 | 103 | 61.0-134 | | | 3.95 | 20 |
| Chloroform | 0.125 | 0.115 | 0.109 | 92.0 | 87.2 | 72.0-123 | | | 5.36 | 20 |
| Chloromethane | 0.125 | 0.112 | 0.115 | 89.6 | 92.0 | 51.0-138 | | | 2.64 | 20 |
| 2-Chlorotoluene | 0.125 | 0.118 | 0.119 | 94.4 | 95.2 | 75.0-124 | | | 0.844 | 20 |
| 4-Chlorotoluene | 0.125 | 0.112 | 0.116 | 89.6 | 92.8 | 75.0-124 | | | 3.51 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.110 | 0.129 | 88.0 | 103 | 59.0-130 | | | 15.9 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.114 | 0.123 | 91.2 | 98.4 | 74.0-128 | | | 7.59 | 20 |
| Dibromomethane | 0.125 | 0.111 | 0.110 | 88.8 | 88.0 | 75.0-122 | | | 0.905 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.103 | 0.105 | 82.4 | 84.0 | 76.0-124 | | | 1.92 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.106 | 0.108 | 84.8 | 86.4 | 76.0-125 | | | 1.87 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.105 | 0.109 | 84.0 | 87.2 | 77.0-121 | | | 3.74 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.137 | 0.138 | 110 | 110 | 43.0-156 | | | 0.727 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.128 | 0.122 | 102 | 97.6 | 70.0-127 | | | 4.80 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.108 | 0.113 | 86.4 | 90.4 | 65.0-131 | | | 4.52 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.126 | 0.121 | 101 | 96.8 | 65.0-131 | | | 4.05 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.122 | 0.115 | 97.6 | 92.0 | 73.0-125 | | | 5.91 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.121 | 0.114 | 96.8 | 91.2 | 71.0-125 | | | 5.96 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.119 | 0.118 | 95.2 | 94.4 | 74.0-125 | | | 0.844 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.126 | 0.123 | 101 | 98.4 | 73.0-125 | | | 2.41 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.112 | 0.119 | 89.6 | 95.2 | 80.0-125 | | | 6.06 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.125 | 0.128 | 100 | 102 | 76.0-127 | | | 2.37 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.115 | 0.119 | 92.0 | 95.2 | 73.0-127 | | | 3.42 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.131 | 0.121 | 105 | 96.8 | 59.0-135 | | | 7.94 | 20 |
| Di-isopropyl ether | 0.125 | 0.123 | 0.123 | 98.4 | 98.4 | 60.0-136 | | | 0.000 | 20 |
| Ethylbenzene | 0.125 | 0.111 | 0.113 | 88.8 | 90.4 | 74.0-126 | | | 1.79 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.115 | 0.108 | 92.0 | 86.4 | 57.0-150 | | | 6.28 | 20 |
| Isopropylbenzene | 0.125 | 0.113 | 0.113 | 90.4 | 90.4 | 72.0-127 | | | 0.000 | 20 |
| p-Isopropyltoluene | 0.125 | 0.111 | 0.113 | 88.8 | 90.4 | 72.0-133 | | | 1.79 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.964 | 1.00 | 154 | 160 | 30.0-160 | | | 3.67 | 24 |
| Methylene Chloride | 0.125 | 0.114 | 0.111 | 91.2 | 88.8 | 68.0-123 | | | 2.67 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.697 | 0.739 | 112 | 118 | 56.0-143 | | | 5.85 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.114 | 0.121 | 91.2 | 96.8 | 66.0-132 | | | 5.96 | 20 |

# QUALITY CONTROL SUMMARY

L1740224-22,25,27

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076096-1 05/30/24 17:29 • (LCSD) R4076096-2 05/30/24 17:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0832 | 0.0871 | 66.6 | 69.7 | 59.0-130 | | | 4.58 | 20 |
| n-Propylbenzene | 0.125 | 0.118 | 0.122 | 94.4 | 97.6 | 74.0-126 | | | 3.33 | 20 |
| Styrene | 0.125 | 0.107 | 0.109 | 85.6 | 87.2 | 72.0-127 | | | 1.85 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.106 | 0.106 | 84.8 | 84.8 | 74.0-129 | | | 0.000 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.105 | 0.110 | 84.0 | 88.0 | 68.0-128 | | | 4.65 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.126 | 0.132 | 101 | 106 | 61.0-139 | | | 4.65 | 20 |
| Tetrachloroethene | 0.125 | 0.115 | 0.120 | 92.0 | 96.0 | 70.0-136 | | | 4.26 | 20 |
| Toluene | 0.125 | 0.109 | 0.112 | 87.2 | 89.6 | 75.0-121 | | | 2.71 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.0945 | 0.102 | 75.6 | 81.6 | 59.0-139 | | | 7.63 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.0938 | 0.0954 | 75.0 | 76.3 | 62.0-137 | | | 1.69 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.132 | 0.122 | 106 | 97.6 | 69.0-126 | | | 7.87 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.112 | 0.117 | 89.6 | 93.6 | 78.0-123 | | | 4.37 | 20 |
| Trichloroethene | 0.125 | 0.126 | 0.126 | 101 | 101 | 76.0-126 | | | 0.000 | 20 |
| Trichlorofluoromethane | 0.125 | 0.152 | 0.153 | 122 | 122 | 61.0-142 | | | 0.656 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.114 | 0.129 | 91.2 | 103 | 67.0-129 | | | 12.3 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.105 | 0.106 | 84.0 | 84.8 | 70.0-126 | | | 0.948 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.104 | 0.105 | 83.2 | 84.0 | 74.0-124 | | | 0.957 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.111 | 0.111 | 88.8 | 88.8 | 73.0-127 | | | 0.000 | 20 |
| Vinyl chloride | 0.125 | 0.119 | 0.121 | 95.2 | 96.8 | 63.0-134 | | | 1.67 | 20 |
| Xylenes, Total | 0.375 | 0.332 | 0.339 | 88.5 | 90.4 | 72.0-127 | | | 2.09 | 20 |
| *(S) Toluene-d8* | | | | *97.2* | *99.6* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *103* | *101* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *101* | *97.5* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4076461-3 06/02/24 14:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4076461-3 06/02/24 14:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *92.5* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076461-1 06/02/24 13:04 • (LCSD) R4076461-2 06/02/24 13:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.607 | 0.583 | 97.1 | 93.3 | 10.0-160 | | | 4.03 | 31 |
| Acrylonitrile | 0.625 | 0.538 | 0.588 | 86.1 | 94.1 | 45.0-153 | | | 8.88 | 22 |
| Benzene | 0.125 | 0.122 | 0.123 | 97.6 | 98.4 | 70.0-123 | | | 0.816 | 20 |
| Bromobenzene | 0.125 | 0.124 | 0.122 | 99.2 | 97.6 | 73.0-121 | | | 1.63 | 20 |
| Bromodichloromethane | 0.125 | 0.118 | 0.120 | 94.4 | 96.0 | 73.0-121 | | | 1.68 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076461-1 06/02/24 13:04 • (LCSD) R4076461-2 06/02/24 13:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.109 | 0.103 | 87.2 | 82.4 | 64.0-132 | | | 5.66 | 20 |
| Bromomethane | 0.125 | 0.102 | 0.120 | 81.6 | 96.0 | 56.0-147 | | | 16.2 | 20 |
| n-Butylbenzene | 0.125 | 0.133 | 0.134 | 106 | 107 | 68.0-135 | | | 0.749 | 20 |
| sec-Butylbenzene | 0.125 | 0.127 | 0.124 | 102 | 99.2 | 74.0-130 | | | 2.39 | 20 |
| tert-Butylbenzene | 0.125 | 0.129 | 0.123 | 103 | 98.4 | 75.0-127 | | | 4.76 | 20 |
| Carbon tetrachloride | 0.125 | 0.120 | 0.127 | 96.0 | 102 | 66.0-128 | | | 5.67 | 20 |
| Chlorobenzene | 0.125 | 0.129 | 0.125 | 103 | 100 | 76.0-128 | | | 3.15 | 20 |
| Chlorodibromomethane | 0.125 | 0.124 | 0.124 | 99.2 | 99.2 | 74.0-127 | | | 0.000 | 20 |
| Chloroethane | 0.125 | 0.125 | 0.138 | 100 | 110 | 61.0-134 | | | 9.89 | 20 |
| Chloroform | 0.125 | 0.117 | 0.124 | 93.6 | 99.2 | 72.0-123 | | | 5.81 | 20 |
| Chloromethane | 0.125 | 0.129 | 0.145 | 103 | 116 | 51.0-138 | | | 11.7 | 20 |
| 2-Chlorotoluene | 0.125 | 0.123 | 0.127 | 98.4 | 102 | 75.0-124 | | | 3.20 | 20 |
| 4-Chlorotoluene | 0.125 | 0.117 | 0.117 | 93.6 | 93.6 | 75.0-124 | | | 0.000 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0963 | 0.0960 | 77.0 | 76.8 | 59.0-130 | | | 0.312 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.119 | 0.118 | 95.2 | 94.4 | 74.0-128 | | | 0.844 | 20 |
| Dibromomethane | 0.125 | 0.122 | 0.127 | 97.6 | 102 | 75.0-122 | | | 4.02 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.124 | 0.122 | 99.2 | 97.6 | 76.0-124 | | | 1.63 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.125 | 0.126 | 100 | 101 | 76.0-125 | | | 0.797 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.123 | 0.119 | 98.4 | 95.2 | 77.0-121 | | | 3.31 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.137 | 0.146 | 110 | 117 | 43.0-156 | | | 6.36 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.118 | 0.127 | 94.4 | 102 | 70.0-127 | | | 7.35 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.115 | 0.122 | 92.0 | 97.6 | 65.0-131 | | | 5.91 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.127 | 0.134 | 102 | 107 | 65.0-131 | | | 5.36 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.125 | 0.129 | 100 | 103 | 73.0-125 | | | 3.15 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.121 | 0.131 | 96.8 | 105 | 71.0-125 | | | 7.94 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 74.0-125 | | | 2.45 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.123 | 0.132 | 98.4 | 106 | 73.0-125 | | | 7.06 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.127 | 0.126 | 102 | 101 | 80.0-125 | | | 0.791 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.114 | 0.121 | 91.2 | 96.8 | 76.0-127 | | | 5.96 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.121 | 0.122 | 96.8 | 97.6 | 73.0-127 | | | 0.823 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.0874 | 0.110 | 69.9 | 88.0 | 59.0-135 | | J3 | 22.9 | 20 |
| Di-isopropyl ether | 0.125 | 0.120 | 0.126 | 96.0 | 101 | 60.0-136 | | | 4.88 | 20 |
| Ethylbenzene | 0.125 | 0.126 | 0.132 | 101 | 106 | 74.0-126 | | | 4.65 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.126 | 0.135 | 101 | 108 | 57.0-150 | | | 6.90 | 20 |
| Isopropylbenzene | 0.125 | 0.123 | 0.128 | 98.4 | 102 | 72.0-127 | | | 3.98 | 20 |
| p-Isopropyltoluene | 0.125 | 0.128 | 0.129 | 102 | 103 | 72.0-133 | | | 0.778 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.695 | 0.687 | 111 | 110 | 30.0-160 | | | 1.16 | 24 |
| Methylene Chloride | 0.125 | 0.122 | 0.127 | 97.6 | 102 | 68.0-123 | | | 4.02 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.626 | 0.614 | 100 | 98.2 | 56.0-143 | | | 1.94 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 66.0-132 | | | 3.45 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076461-1 06/02/24 13:04 • (LCSD) R4076461-2 06/02/24 13:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.111 | 0.124 | 88.8 | 99.2 | 59.0-130 | | | 11.1 | 20 |
| n-Propylbenzene | 0.125 | 0.123 | 0.121 | 98.4 | 96.8 | 74.0-126 | | | 1.64 | 20 |
| Styrene | 0.125 | 0.126 | 0.129 | 101 | 103 | 72.0-127 | | | 2.35 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.122 | 0.125 | 97.6 | 100 | 74.0-129 | | | 2.43 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.0909 | 0.0958 | 72.7 | 76.6 | 68.0-128 | | | 5.25 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.131 | 0.129 | 105 | 103 | 61.0-139 | | | 1.54 | 20 |
| Tetrachloroethene | 0.125 | 0.140 | 0.143 | 112 | 114 | 70.0-136 | | | 2.12 | 20 |
| Toluene | 0.125 | 0.125 | 0.122 | 100 | 97.6 | 75.0-121 | | | 2.43 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.121 | 0.130 | 96.8 | 104 | 59.0-139 | | | 7.17 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.121 | 0.133 | 96.8 | 106 | 62.0-137 | | | 9.45 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.130 | 0.130 | 104 | 104 | 69.0-126 | | | 0.000 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.123 | 0.121 | 98.4 | 96.8 | 78.0-123 | | | 1.64 | 20 |
| Trichloroethene | 0.125 | 0.136 | 0.124 | 109 | 99.2 | 76.0-126 | | | 9.23 | 20 |
| Trichlorofluoromethane | 0.125 | 0.125 | 0.131 | 100 | 105 | 61.0-142 | | | 4.69 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 67.0-129 | | | 1.65 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.130 | 0.122 | 104 | 97.6 | 70.0-126 | | | 6.35 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.125 | 0.123 | 100 | 98.4 | 74.0-124 | | | 1.61 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.126 | 0.129 | 101 | 103 | 73.0-127 | | | 2.35 | 20 |
| Vinyl chloride | 0.125 | 0.126 | 0.147 | 101 | 118 | 63.0-134 | | | 15.4 | 20 |
| Xylenes, Total | 0.375 | 0.369 | 0.374 | 98.4 | 99.7 | 72.0-127 | | | 1.35 | 20 |
| *(S) Toluene-d8* | | | | *102* | *100* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *99.4* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *96.1* | *96.4* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4076288-2 05/31/24 21:55

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

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## Method Blank (MB)

(MB) R4076288-2 05/31/24 21:55

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *96.8* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *108* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *99.7* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R4076288-1 05/31/24 21:16

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 25.0 | 25.4 | 102 | 19.0-160 | J |
| Acrolein | 25.0 | 27.1 | 108 | 10.0-160 | J |
| Acrylonitrile | 25.0 | 29.5 | 118 | 55.0-149 | |
| Benzene | 5.00 | 4.74 | 94.8 | 70.0-123 | |

## Laboratory Control Sample (LCS)

(LCS) R4076288-1 05/31/24 21:16

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 4.99 | 99.8 | 73.0-121 | |
| Bromodichloromethane | 5.00 | 4.91 | 98.2 | 75.0-120 | |
| Bromoform | 5.00 | 4.43 | 88.6 | 68.0-132 | |
| Bromomethane | 5.00 | 4.60 | 92.0 | 10.0-160 | J |
| n-Butylbenzene | 5.00 | 4.77 | 95.4 | 73.0-125 | |
| sec-Butylbenzene | 5.00 | 4.96 | 99.2 | 75.0-125 | |
| tert-Butylbenzene | 5.00 | 5.29 | 106 | 76.0-124 | |
| Carbon tetrachloride | 5.00 | 5.16 | 103 | 68.0-126 | |
| Chlorobenzene | 5.00 | 5.05 | 101 | 80.0-121 | |
| Chlorodibromomethane | 5.00 | 4.88 | 97.6 | 77.0-125 | |
| Chloroethane | 5.00 | 5.14 | 103 | 47.0-150 | |
| Chloroform | 5.00 | 4.86 | 97.2 | 73.0-120 | J |
| Chloromethane | 5.00 | 4.75 | 95.0 | 41.0-142 | |
| 2-Chlorotoluene | 5.00 | 4.98 | 99.6 | 76.0-123 | |
| 4-Chlorotoluene | 5.00 | 5.51 | 110 | 75.0-122 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 5.78 | 116 | 58.0-134 | |
| 1,2-Dibromoethane | 5.00 | 5.16 | 103 | 80.0-122 | |
| Dibromomethane | 5.00 | 5.19 | 104 | 80.0-120 | |
| 1,2-Dichlorobenzene | 5.00 | 5.01 | 100 | 79.0-121 | |
| 1,3-Dichlorobenzene | 5.00 | 5.05 | 101 | 79.0-120 | |
| 1,4-Dichlorobenzene | 5.00 | 4.94 | 98.8 | 79.0-120 | |
| Dichlorodifluoromethane | 5.00 | 5.75 | 115 | 51.0-149 | |
| 1,1-Dichloroethane | 5.00 | 4.90 | 98.0 | 70.0-126 | |
| 1,2-Dichloroethane | 5.00 | 5.27 | 105 | 70.0-128 | |
| 1,1-Dichloroethene | 5.00 | 5.30 | 106 | 71.0-124 | |
| cis-1,2-Dichloroethene | 5.00 | 4.63 | 92.6 | 73.0-120 | |
| trans-1,2-Dichloroethene | 5.00 | 4.69 | 93.8 | 73.0-120 | |
| 1,2-Dichloropropane | 5.00 | 5.27 | 105 | 77.0-125 | |
| 1,1-Dichloropropene | 5.00 | 5.12 | 102 | 74.0-126 | |
| 1,3-Dichloropropane | 5.00 | 5.04 | 101 | 80.0-120 | |
| cis-1,3-Dichloropropene | 5.00 | 5.35 | 107 | 80.0-123 | |
| trans-1,3-Dichloropropene | 5.00 | 5.22 | 104 | 78.0-124 | |
| 2,2-Dichloropropane | 5.00 | 4.90 | 98.0 | 58.0-130 | |
| Di-isopropyl ether | 5.00 | 5.25 | 105 | 58.0-138 | |
| Ethylbenzene | 5.00 | 5.03 | 101 | 79.0-123 | |
| Hexachloro-1,3-butadiene | 5.00 | 4.00 | 80.0 | 54.0-138 | |
| Isopropylbenzene | 5.00 | 5.33 | 107 | 76.0-127 | |
| p-Isopropyltoluene | 5.00 | 5.02 | 100 | 76.0-125 | |
| 2-Butanone (MEK) | 25.0 | 32.9 | 132 | 44.0-160 | |
| Methylene Chloride | 5.00 | 5.17 | 103 | 67.0-120 | |

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## Laboratory Control Sample (LCS)

(LCS) R4076288-1 05/31/24 21:16

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 29.1 | 116 | 68.0-142 | |
| Methyl tert-butyl ether | 5.00 | 5.30 | 106 | 68.0-125 | |
| Naphthalene | 5.00 | 4.54 | 90.8 | 54.0-135 | J |
| n-Propylbenzene | 5.00 | 4.73 | 94.6 | 77.0-124 | |
| Styrene | 5.00 | 5.25 | 105 | 73.0-130 | |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.29 | 106 | 75.0-125 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 5.42 | 108 | 65.0-130 | |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 5.25 | 105 | 69.0-132 | |
| Tetrachloroethene | 5.00 | 5.16 | 103 | 72.0-132 | |
| Toluene | 5.00 | 4.76 | 95.2 | 79.0-120 | |
| 1,2,3-Trichlorobenzene | 5.00 | 5.00 | 100 | 50.0-138 | |
| 1,2,4-Trichlorobenzene | 5.00 | 4.05 | 81.0 | 57.0-137 | |
| 1,1,1-Trichloroethane | 5.00 | 5.53 | 111 | 73.0-124 | |
| 1,1,2-Trichloroethane | 5.00 | 4.82 | 96.4 | 80.0-120 | |
| Trichloroethene | 5.00 | 5.22 | 104 | 78.0-124 | |
| Trichlorofluoromethane | 5.00 | 4.67 | 93.4 | 59.0-147 | J |
| 1,2,3-Trichloropropane | 5.00 | 5.23 | 105 | 73.0-130 | |
| 1,2,4-Trimethylbenzene | 5.00 | 5.38 | 108 | 76.0-121 | |
| 1,2,3-Trimethylbenzene | 5.00 | 5.12 | 102 | 77.0-120 | |
| 1,3,5-Trimethylbenzene | 5.00 | 5.23 | 105 | 76.0-122 | |
| Vinyl chloride | 5.00 | 5.14 | 103 | 67.0-131 | |
| Xylenes, Total | 15.0 | 15.8 | 105 | 79.0-123 | |
| *(S) Toluene-d8* | | | *99.3* | *80.0-120* | |
| *(S) 4-Bromofluorobenzene* | | | *101* | *77.0-126* | |
| *(S) 1,2-Dichloroethane-d4* | | | *102* | *70.0-130* | |

## L1739689-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739689-01 06/01/24 01:04 • (MS) R4076288-3 06/01/24 05:52 • (MSD) R4076288-4 06/01/24 06:11

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | U | 32.2 | 52.2 | 129 | 209 | 1 | 10.0-160 | | J3 J5 | 47.4 | 35 |
| Acrolein | 25.0 | U | 33.1 | 42.9 | 132 | 172 | 1 | 10.0-160 | J | J J5 | 25.8 | 39 |
| Acrylonitrile | 25.0 | U | 35.2 | 42.2 | 141 | 169 | 1 | 21.0-160 | | J5 | 18.1 | 32 |
| Benzene | 5.00 | U | 6.88 | 6.48 | 138 | 130 | 1 | 17.0-158 | | | 5.99 | 27 |
| Bromobenzene | 5.00 | U | 6.63 | 5.42 | 133 | 108 | 1 | 30.0-149 | | | 20.1 | 28 |
| Bromodichloromethane | 5.00 | U | 6.88 | 6.51 | 138 | 130 | 1 | 31.0-150 | | | 5.53 | 27 |
| Bromoform | 5.00 | U | 5.72 | 5.87 | 114 | 117 | 1 | 29.0-150 | | | 2.59 | 29 |
| Bromomethane | 5.00 | U | 5.57 | 4.62 | 111 | 92.4 | 1 | 10.0-160 | | | 18.6 | 38 |

## L1739689-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739689-01 06/01/24 01:04 • (MS) R4076288-3 06/01/24 05:52 • (MSD) R4076288-4 06/01/24 06:11

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 5.00 | U | 6.78 | 7.72 | 136 | 154 | 1 | 31.0-150 | | J5 | 13.0 | 30 |
| sec-Butylbenzene | 5.00 | U | 7.77 | 7.29 | 155 | 146 | 1 | 33.0-155 | | | 6.37 | 29 |
| tert-Butylbenzene | 5.00 | U | 8.79 | 6.74 | 176 | 135 | 1 | 34.0-153 | J5 | | 26.4 | 28 |
| Carbon tetrachloride | 5.00 | U | 8.18 | 7.45 | 164 | 149 | 1 | 23.0-159 | J5 | | 9.34 | 28 |
| Chlorobenzene | 5.00 | U | 6.62 | 6.33 | 132 | 127 | 1 | 33.0-152 | | | 4.48 | 27 |
| Chlorodibromomethane | 5.00 | U | 6.36 | 6.05 | 127 | 121 | 1 | 37.0-149 | | | 5.00 | 27 |
| Chloroethane | 5.00 | U | 6.59 | 6.07 | 132 | 121 | 1 | 10.0-160 | | | 8.21 | 30 |
| Chloroform | 5.00 | U | 6.98 | 6.62 | 140 | 132 | 1 | 29.0-154 | | | 5.29 | 28 |
| Chloromethane | 5.00 | U | 7.02 | 6.84 | 140 | 137 | 1 | 10.0-160 | | | 2.60 | 29 |
| 2-Chlorotoluene | 5.00 | U | 6.75 | 5.99 | 135 | 120 | 1 | 32.0-153 | | | 11.9 | 28 |
| 4-Chlorotoluene | 5.00 | U | 7.08 | 6.08 | 142 | 122 | 1 | 32.0-150 | | | 15.2 | 28 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | U | 6.52 | 6.83 | 130 | 137 | 1 | 22.0-151 | | | 4.64 | 34 |
| 1,2-Dibromoethane | 5.00 | U | 6.40 | 6.25 | 128 | 125 | 1 | 34.0-147 | | | 2.37 | 27 |
| Dibromomethane | 5.00 | U | 6.51 | 6.54 | 130 | 131 | 1 | 30.0-151 | | | 0.460 | 27 |
| 1,2-Dichlorobenzene | 5.00 | U | 6.26 | 6.57 | 125 | 131 | 1 | 34.0-149 | | | 4.83 | 28 |
| 1,3-Dichlorobenzene | 5.00 | U | 6.61 | 6.33 | 132 | 127 | 1 | 36.0-146 | | | 4.33 | 27 |
| 1,4-Dichlorobenzene | 5.00 | U | 6.24 | 6.23 | 125 | 125 | 1 | 35.0-142 | | | 0.160 | 27 |
| Dichlorodifluoromethane | 5.00 | U | 9.23 | 8.68 | 185 | 174 | 1 | 10.0-160 | J5 | J5 | 6.14 | 29 |
| 1,1-Dichloroethane | 5.00 | U | 7.52 | 7.00 | 150 | 140 | 1 | 25.0-158 | | | 7.16 | 27 |
| 1,2-Dichloroethane | 5.00 | U | 7.34 | 6.97 | 147 | 139 | 1 | 29.0-151 | | | 5.17 | 27 |
| 1,1-Dichloroethene | 5.00 | U | 8.94 | 8.09 | 179 | 162 | 1 | 11.0-160 | J5 | J5 | 9.98 | 29 |
| cis-1,2-Dichloroethene | 5.00 | U | 6.57 | 6.33 | 131 | 127 | 1 | 10.0-160 | | | 3.72 | 27 |
| trans-1,2-Dichloroethene | 5.00 | U | 6.96 | 6.41 | 139 | 128 | 1 | 17.0-153 | | | 8.23 | 27 |
| 1,2-Dichloropropane | 5.00 | U | 7.31 | 7.05 | 146 | 141 | 1 | 30.0-156 | | | 3.62 | 27 |
| 1,1-Dichloropropene | 5.00 | U | 8.22 | 7.79 | 164 | 156 | 1 | 25.0-158 | J5 | | 5.37 | 27 |
| 1,3-Dichloropropane | 5.00 | U | 6.66 | 6.11 | 133 | 122 | 1 | 38.0-147 | | | 8.61 | 27 |
| cis-1,3-Dichloropropene | 5.00 | U | 6.90 | 6.73 | 138 | 135 | 1 | 34.0-149 | | | 2.49 | 28 |
| trans-1,3-Dichloropropene | 5.00 | U | 6.77 | 6.28 | 135 | 126 | 1 | 32.0-149 | | | 7.51 | 28 |
| 2,2-Dichloropropane | 5.00 | U | 7.32 | 7.02 | 146 | 140 | 1 | 24.0-152 | | | 4.18 | 29 |
| Di-isopropyl ether | 5.00 | U | 7.85 | 7.74 | 157 | 155 | 1 | 21.0-160 | | | 1.41 | 28 |
| Ethylbenzene | 5.00 | U | 6.92 | 6.68 | 138 | 134 | 1 | 30.0-155 | | | 3.53 | 27 |
| Hexachloro-1,3-butadiene | 5.00 | U | 6.43 | 8.81 | 129 | 176 | 1 | 20.0-154 | | J5 | 31.2 | 34 |
| Isopropylbenzene | 5.00 | U | 7.39 | 7.68 | 148 | 154 | 1 | 28.0-157 | | | 3.85 | 27 |
| p-Isopropyltoluene | 5.00 | U | 7.37 | 7.48 | 147 | 150 | 1 | 30.0-154 | | | 1.48 | 29 |
| 2-Butanone (MEK) | 25.0 | U | 38.0 | 38.6 | 152 | 154 | 1 | 10.0-160 | | | 1.57 | 32 |
| Methylene Chloride | 5.00 | U | 6.93 | 6.42 | 139 | 128 | 1 | 23.0-144 | | | 7.64 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | U | 39.1 | 38.3 | 156 | 153 | 1 | 29.0-160 | | | 2.07 | 29 |
| Methyl tert-butyl ether | 5.00 | U | 6.80 | 7.06 | 136 | 141 | 1 | 28.0-150 | | | 3.75 | 29 |
| Naphthalene | 5.00 | U | 5.18 | 6.73 | 104 | 135 | 1 | 12.0-156 | | | 26.0 | 35 |
| n-Propylbenzene | 5.00 | U | 7.76 | 6.50 | 155 | 130 | 1 | 31.0-154 | J6 | | 17.7 | 28 |

## L1739689-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739689-01 06/01/24 01:04 • (MS) R4076288-3 06/01/24 05:52 • (MSD) R4076288-4 06/01/24 06:11

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | 5.00 | U | 6.82 | 6.87 | 136 | 137 | 1 | 33.0-155 | | | 0.730 | 28 |
| 1,1,1,2-Tetrachloroethane | 5.00 | U | 6.64 | 6.42 | 133 | 128 | 1 | 36.0-151 | | | 3.37 | 29 |
| 1,1,2,2-Tetrachloroethane | 5.00 | U | 6.79 | 6.00 | 136 | 120 | 1 | 33.0-150 | | | 12.4 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | U | 9.13 | 8.14 | 183 | 163 | 1 | 23.0-160 | J5 | J5 | 11.5 | 30 |
| Tetrachloroethene | 5.00 | U | 7.31 | 6.78 | 146 | 136 | 1 | 10.0-160 | | | 7.52 | 27 |
| Toluene | 5.00 | U | 6.64 | 6.18 | 133 | 124 | 1 | 26.0-154 | | | 7.18 | 28 |
| 1,2,3-Trichlorobenzene | 5.00 | U | 6.51 | 8.93 | 130 | 179 | 1 | 17.0-150 | | J5 | 31.3 | 36 |
| 1,2,4-Trichlorobenzene | 5.00 | U | 5.09 | 7.07 | 102 | 141 | 1 | 24.0-150 | | | 32.6 | 33 |
| 1,1,1-Trichloroethane | 5.00 | U | 8.19 | 7.55 | 164 | 151 | 1 | 23.0-160 | J5 | | 8.13 | 28 |
| 1,1,2-Trichloroethane | 5.00 | U | 6.17 | 5.91 | 123 | 118 | 1 | 35.0-147 | | | 4.30 | 27 |
| Trichloroethene | 5.00 | U | 7.27 | 6.88 | 145 | 138 | 1 | 10.0-160 | | | 5.51 | 25 |
| Trichlorofluoromethane | 5.00 | U | 6.95 | 5.82 | 139 | 116 | 1 | 17.0-160 | | | 17.7 | 31 |
| 1,2,3-Trichloropropane | 5.00 | U | 6.30 | 5.27 | 126 | 105 | 1 | 34.0-151 | | | 17.8 | 29 |
| 1,2,4-Trimethylbenzene | 5.00 | U | 7.36 | 7.02 | 147 | 140 | 1 | 26.0-154 | | | 4.73 | 27 |
| 1,2,3-Trimethylbenzene | 5.00 | U | 6.62 | 6.75 | 132 | 135 | 1 | 32.0-149 | | | 1.94 | 28 |
| 1,3,5-Trimethylbenzene | 5.00 | U | 7.26 | 6.81 | 145 | 136 | 1 | 28.0-153 | | | 6.40 | 27 |
| Vinyl chloride | 5.00 | U | 7.17 | 7.04 | 143 | 141 | 1 | 10.0-160 | | | 1.83 | 27 |
| Xylenes, Total | 15.0 | U | 20.8 | 20.0 | 139 | 133 | 1 | 29.0-154 | | | 3.92 | 28 |
| *(S) Toluene-d8* | | | | | *99.4* | *96.3* | | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *97.1* | *105* | | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *99.9* | *102* | | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075530-1 05/30/24 08:04

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | ug/l | | ug/l | ug/l |
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *73.0* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075530-2 05/30/24 08:24 • (LCSD) R4075530-3 05/30/24 08:45

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| | ug/l | ug/l | ug/l | % | % | % | | | % | % |
| C12-C22 Hydrocarbons | 750 | 868 | 916 | 116 | 122 | 50.0-150 | | | 5.38 | 20 |
| C22-C32 Hydrocarbons | 750 | 804 | 808 | 107 | 108 | 50.0-150 | | | 0.496 | 20 |
| *(S) o-Terphenyl* | | | | *74.0* | *75.0* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4076211-3 06/01/24 01:18

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *61.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076211-1 06/01/24 00:34 • (LCSD) R4076211-2 06/01/24 00:58

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 809 | 819 | 108 | 109 | 50.0-150 | | | 1.23 | 20 |
| C22-C32 Hydrocarbons | 750 | 684 | 688 | 91.2 | 91.7 | 50.0-150 | | | 0.583 | 20 |
| *(S) o-Terphenyl* | | | | *66.0* | *65.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4076757-1 06/03/24 17:07

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *89.5* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4076757-2 06/03/24 17:21

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 21.0 | 84.0 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 18.8 | 75.2 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *72.8* | *18.0-148* | |

## Method Blank (MB)

(MB) R4076748-1 06/03/24 13:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *67.9* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4076748-2 06/03/24 13:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 18.0 | 72.0 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 15.4 | 61.6 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *62.9* | *18.0-148* | |

## Method Blank (MB)

(MB) R4078484-1 06/06/24 23:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *96.8* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4078484-2 06/06/24 23:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 22.7 | 90.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 19.2 | 76.8 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *74.8* | *18.0-148* | |

## L1741877-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741877-06 06/07/24 04:11 • (MS) R4078484-3 06/07/24 04:25 • (MSD) R4078484-4 06/07/24 04:40

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 24.5 | 2.04 | 23.2 | 25.4 | 86.4 | 95.0 | 1 | 50.0-150 | | | 9.05 | 20 |
| C22-C32 Hydrocarbons | 24.5 | 13.4 | 30.4 | 31.6 | 69.4 | 74.0 | 1 | 50.0-150 | | | 3.87 | 20 |
| *(S) o-Terphenyl* | | | | | *61.5* | *69.4* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4076230-1 06/01/24 15:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *55.7* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *50.0* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4076230-2 06/01/24 15:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.117 | 70.1 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.135 | 80.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *50.0* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *43.8* | *10.0-139* | |

## L1739367-38 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739367-38 06/01/24 17:45 • (MS) R4076230-3 06/01/24 18:12 • (MSD) R4076230-4 06/01/24 18:21

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.193 | U | 0.160 | 0.240 | 82.5 | 125 | 1 | 10.0-160 | | J3 | 40.2 | 37 |
| PCB 1260 | 0.193 | U | 0.143 | 0.232 | 74.1 | 121 | 1 | 10.0-160 | | J3 | 47.2 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *48.6* | *115* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *76.3* | *113* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4076251-1 06/02/24 01:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0236 | 0.0680 |
| PCB 1221 | U | | 0.0236 | 0.0680 |
| PCB 1232 | U | | 0.0236 | 0.0680 |
| PCB 1242 | U | | 0.0236 | 0.0680 |
| PCB 1248 | U | | 0.0148 | 0.0340 |
| PCB 1254 | U | | 0.0148 | 0.0340 |
| PCB 1260 | U | | 0.0148 | 0.0340 |
| *(S) Decachlorobiphenyl* | *93.1* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *76.7* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4076251-2 06/02/24 01:35

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.166 | 99.4 | 36.0-141 | P |
| PCB 1260 | 0.167 | 0.111 | 66.5 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *50.0* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *43.4* | *10.0-139* | |

## Method Blank (MB)

(MB) R4076434-2 06/02/24 09:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4076434-2 06/02/24 09:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *58.6* | | | *12.0-120* |
| *(S) Phenol-d5* | *55.1* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *43.2* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *50.5* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *56.3* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *66.1* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4076434-1 06/02/24 09:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.398 | 59.8 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.446 | 67.0 | 40.0-120 | |
| Anthracene | 0.666 | 0.494 | 74.2 | 42.0-120 | |
| Benzidine | 1.33 | 0.495 | 37.2 | 10.0-120 | J |
| Benzo(a)anthracene | 0.666 | 0.524 | 78.7 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.459 | 68.9 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.456 | 68.5 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.525 | 78.8 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.496 | 74.5 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.292 | 43.8 | 20.0-120 | J |
| Bis(2-chloroethyl)ether | 0.666 | 0.314 | 47.1 | 16.0-120 | J |

# QUALITY CONTROL SUMMARY

L1740224-01,02,03,06,07,08,21,22,23

## Laboratory Control Sample (LCS)

(LCS) R4076434-1 06/02/24 09:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.336 | 50.5 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.505 | 75.8 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.370 | 55.6 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.461 | 69.2 | 40.0-120 | |
| Chrysene | 0.666 | 0.480 | 72.1 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.555 | 83.3 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.331 | 49.7 | 32.0-120 | J |
| 1,3-Dichlorobenzene | 0.666 | 0.326 | 48.9 | 30.0-120 | J |
| 1,4-Dichlorobenzene | 0.666 | 0.355 | 53.3 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.978 | 73.5 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.535 | 80.3 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.509 | 76.4 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.516 | 77.5 | 44.0-120 | |
| Fluorene | 0.666 | 0.430 | 64.6 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.473 | 71.0 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.292 | 43.8 | 15.0-120 | J |
| Hexachlorocyclopentadiene | 0.666 | 0.319 | 47.9 | 15.0-120 | J |
| Hexachloroethane | 0.666 | 0.322 | 48.3 | 17.0-120 | J |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.599 | 89.9 | 45.0-120 | |
| Isophorone | 0.666 | 0.306 | 45.9 | 23.0-120 | J |
| Naphthalene | 0.666 | 0.300 | 45.0 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.273 | 41.0 | 17.0-120 | J |
| n-Nitrosodimethylamine | 0.666 | 0.239 | 35.9 | 10.0-125 | J |
| n-Nitrosodiphenylamine | 0.666 | 0.456 | 68.5 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.338 | 50.8 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.469 | 70.4 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.525 | 78.8 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.534 | 80.2 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.493 | 74.0 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.505 | 75.8 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.464 | 69.7 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.546 | 82.0 | 40.0-120 | |
| Pyrene | 0.666 | 0.495 | 74.3 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.313 | 47.0 | 17.0-120 | J |
| 4-Chloro-3-methylphenol | 0.666 | 0.389 | 58.4 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.376 | 56.5 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.358 | 53.8 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.317 | 47.6 | 15.0-120 | J |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.679 | 102 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.583 | 87.5 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4076434-1 06/02/24 09:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.373 | 56.0 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.529 | 79.4 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.382 | 57.4 | 29.0-120 | |
| Phenol | 0.666 | 0.363 | 54.5 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.446 | 67.0 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *61.7* | *12.0-120* | |
| *(S) Phenol-d5* | | | *60.1* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *40.5* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *58.9* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *73.9* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *76.9* | *10.0-120* | |

## L1740224-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740224-21 06/02/24 16:25 • (MS) R4076434-3 06/02/24 17:39 • (MSD) R4076434-4 06/02/24 18:03

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.729 | U | 0.232 | 0.252 | 31.8 | 34.5 | 5 | 18.0-120 | | | 8.14 | 32 |
| Acenaphthylene | 0.729 | U | 0.254 | 0.276 | 34.8 | 37.8 | 5 | 25.0-120 | | | 8.26 | 32 |
| Anthracene | 0.729 | U | 0.252 | 0.281 | 34.5 | 38.6 | 5 | 22.0-120 | | | 11.1 | 29 |
| Benzidine | 1.46 | U | U | U | 0.000 | 0.000 | 5 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.729 | U | 0.253 | 0.317 | 34.7 | 43.5 | 5 | 25.0-120 | | | 22.6 | 29 |
| Benzo(b)fluoranthene | 0.729 | 0.0541 | 0.224 | 0.300 | 23.4 | 33.7 | 5 | 19.0-122 | | | 28.8 | 31 |
| Benzo(k)fluoranthene | 0.729 | U | 0.202 | 0.248 | 27.8 | 34.1 | 5 | 23.0-120 | | | 20.4 | 30 |
| Benzo(g,h,i)perylene | 0.729 | U | 0.165 | 0.199 | 22.7 | 27.3 | 5 | 10.0-120 | J | | 18.6 | 33 |
| Benzo(a)pyrene | 0.729 | 0.0399 | 0.221 | 0.283 | 24.8 | 33.4 | 5 | 24.0-120 | | | 24.7 | 30 |
| Bis(2-chlorethoxy)methane | 0.729 | U | 0.220 | 0.218 | 30.2 | 29.9 | 5 | 10.0-120 | J | J | 1.00 | 34 |
| Bis(2-chloroethyl)ether | 0.729 | U | 0.258 | 0.243 | 35.4 | 33.3 | 5 | 10.0-120 | J | J | 6.11 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.729 | U | 0.258 | 0.273 | 35.4 | 37.4 | 5 | 10.0-120 | J | J | 5.36 | 40 |
| 4-Bromophenyl-phenylether | 0.729 | U | 0.268 | 0.289 | 36.8 | 39.6 | 5 | 27.0-120 | J | J | 7.47 | 30 |
| 2-Chloronaphthalene | 0.729 | U | 0.229 | 0.241 | 31.4 | 33.0 | 5 | 20.0-120 | | | 5.13 | 32 |
| 4-Chlorophenyl-phenylether | 0.729 | U | 0.266 | 0.286 | 36.5 | 39.2 | 5 | 24.0-120 | J | J | 7.14 | 29 |
| Chrysene | 0.729 | U | 0.235 | 0.294 | 32.3 | 40.4 | 5 | 21.0-120 | | | 22.3 | 29 |
| Dibenz(a,h)anthracene | 0.729 | U | 0.201 | 0.228 | 27.6 | 31.2 | 5 | 10.0-120 | | | 12.2 | 32 |
| 1,2-Dichlorobenzene | 0.729 | U | 0.227 | 0.228 | 31.1 | 31.2 | 5 | 10.0-120 | J | J | 0.482 | 38 |
| 1,3-Dichlorobenzene | 0.729 | U | 0.218 | 0.227 | 29.9 | 31.1 | 5 | 10.0-120 | J | J | 3.94 | 40 |
| 1,4-Dichlorobenzene | 0.729 | U | 0.244 | 0.236 | 33.5 | 32.4 | 5 | 10.0-120 | J | J | 3.19 | 39 |
| 3,3-Dichlorobenzidine | 1.46 | U | 0.476 | 0.472 | 32.7 | 32.4 | 5 | 10.0-120 | J | J | 0.924 | 34 |
| 2,4-Dinitrotoluene | 0.729 | U | 0.251 | 0.235 | 34.4 | 32.3 | 5 | 30.0-120 | J | J | 6.31 | 31 |

# QUALITY CONTROL SUMMARY

L1740224-01,02,03,06,07,08,21,22,23

## L1740224-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740224-21 06/02/24 16:25 • (MS) R4076434-3 06/02/24 17:39 • (MSD) R4076434-4 06/02/24 18:03

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.729 | U | 0.256 | 0.274 | 35.1 | 37.5 | 5 | 25.0-120 | J | J | 6.61 | 31 |
| Fluoranthene | 0.729 | 0.0484 | 0.265 | 0.353 | 29.7 | 41.9 | 5 | 18.0-126 | | | 28.7 | 32 |
| Fluorene | 0.729 | U | 0.242 | 0.267 | 33.2 | 36.6 | 5 | 25.0-120 | | | 9.89 | 30 |
| Hexachlorobenzene | 0.729 | U | 0.174 | 0.222 | 23.9 | 30.5 | 5 | 27.0-120 | J J6 | J | 24.3 | 28 |
| Hexachloro-1,3-butadiene | 0.729 | U | 0.219 | 0.229 | 30.0 | 31.4 | 5 | 10.0-120 | J | J | 4.40 | 38 |
| Hexachlorocyclopentadiene | 0.729 | U | U | U | 0.000 | 0.000 | 5 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Hexachloroethane | 0.729 | U | 0.179 | 0.200 | 24.6 | 27.5 | 5 | 10.0-120 | J | J | 11.0 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.729 | U | 0.205 | 0.230 | 28.1 | 31.5 | 5 | 10.0-120 | | | 11.6 | 32 |
| Isophorone | 0.729 | U | 0.220 | 0.235 | 30.2 | 32.3 | 5 | 13.0-120 | J | J | 6.73 | 34 |
| Naphthalene | 0.729 | 0.0502 | 0.245 | 0.254 | 26.7 | 27.9 | 5 | 10.0-120 | | | 3.51 | 35 |
| Nitrobenzene | 0.729 | U | 0.202 | 0.206 | 27.8 | 28.2 | 5 | 10.0-120 | J | J | 1.61 | 36 |
| n-Nitrosodimethylamine | 0.729 | U | U | U | 0.000 | 0.000 | 5 | 10.0-127 | J6 | J6 | 0.000 | 40 |
| n-Nitrosodiphenylamine | 0.729 | U | 0.245 | 0.262 | 33.6 | 35.9 | 5 | 17.0-120 | J | J | 6.48 | 29 |
| n-Nitrosodi-n-propylamine | 0.729 | U | 0.244 | 0.228 | 33.5 | 31.2 | 5 | 10.0-120 | J | J | 6.96 | 37 |
| Phenanthrene | 0.729 | 0.0415 | 0.246 | 0.304 | 28.1 | 36.1 | 5 | 17.0-120 | | | 21.1 | 31 |
| Benzylbutyl phthalate | 0.729 | U | 0.278 | 0.287 | 38.1 | 39.3 | 5 | 23.0-120 | J | J | 3.10 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.729 | U | 0.263 | 0.288 | 36.0 | 39.5 | 5 | 17.0-126 | J | J | 9.15 | 30 |
| Di-n-butyl phthalate | 0.729 | U | 0.254 | 0.267 | 34.8 | 36.6 | 5 | 30.0-120 | J | J | 5.04 | 29 |
| Diethyl phthalate | 0.729 | U | 0.282 | 0.288 | 38.7 | 39.5 | 5 | 26.0-120 | J | J | 1.92 | 28 |
| Dimethyl phthalate | 0.729 | U | U | U | 36.3 | 36.8 | 5 | 25.0-120 | J | J | 1.23 | 29 |
| Di-n-octyl phthalate | 0.729 | U | 0.383 | 0.407 | 52.6 | 55.9 | 5 | 21.0-123 | J | J | 6.09 | 29 |
| Pyrene | 0.729 | 0.0487 | 0.243 | 0.337 | 26.7 | 39.6 | 5 | 16.0-121 | | J3 | 32.5 | 32 |
| 1,2,4-Trichlorobenzene | 0.729 | U | 0.241 | 0.247 | 33.0 | 33.9 | 5 | 12.0-120 | J | J | 2.69 | 37 |
| 4-Chloro-3-methylphenol | 0.729 | U | 0.243 | 0.251 | 33.3 | 34.4 | 5 | 15.0-120 | J | J | 3.10 | 30 |
| 2-Chlorophenol | 0.729 | U | 0.258 | 0.244 | 35.4 | 33.5 | 5 | 15.0-120 | J | J | 5.66 | 37 |
| 2,4-Dichlorophenol | 0.729 | U | 0.234 | 0.246 | 32.1 | 33.8 | 5 | 20.0-120 | J | J | 5.01 | 31 |
| 2,4-Dimethylphenol | 0.729 | U | 0.234 | 0.240 | 32.1 | 32.9 | 5 | 10.0-120 | J | J | 2.31 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.729 | U | U | U | 14.9 | 15.9 | 5 | 10.0-120 | J | J | 6.43 | 39 |
| 2,4-Dinitrophenol | 0.729 | U | U | U | 0.000 | 0.000 | 5 | 10.0-121 | J6 | J6 | 0.000 | 40 |
| 2-Nitrophenol | 0.729 | U | 0.186 | 0.178 | 25.5 | 24.5 | 5 | 12.0-120 | J | J | 4.20 | 39 |
| 4-Nitrophenol | 0.729 | U | 0.162 | 0.153 | 22.2 | 21.0 | 5 | 10.0-137 | J | J | 5.56 | 32 |
| Pentachlorophenol | 0.729 | U | 0.496 | 0.471 | 68.0 | 64.6 | 5 | 10.0-160 | J | J | 5.21 | 31 |
| Phenol | 0.729 | U | 0.256 | 0.256 | 35.1 | 35.1 | 5 | 12.0-120 | J | J | 0.000 | 38 |
| 2,4,6-Trichlorophenol | 0.729 | U | 0.213 | 0.218 | 29.3 | 29.9 | 5 | 19.0-120 | J | J | 2.03 | 32 |
| *(S) 2-Fluorophenol* | | | | | *39.5* | *36.6* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *36.3* | *34.8* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *25.4* | *25.9* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *33.9* | *33.6* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *29.6* | *27.8* | | *10.0-127* | | | | |

## L1740224-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740224-21 06/02/24 16:25 • (MS) R4076434-3 06/02/24 17:39 • (MSD) R4076434-4 06/02/24 18:03

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *32.1* | *35.1* | | *10.0-120* | | | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |

# GLOSSARY OF TERMS

| Qualifier | Description |
|---|---|
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |
| Q | Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately
Packed on Ice N ___ Y X

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

Quote #
P1076441

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-F3-1-1.0 | Grab | SS | 1.0 | 5/23/24 | 940 | 3 | ○ | ○ | ● | ● | ● | | | -01 |
| G-F3-1-2.0 | Grab | SS | 2.0 | | 942 | 3 | ○ | ○ | ● | ● | ● | ● | | -02 |
| G-F3-1-3.0 | Grab | SS | 3.0 | | 944 | 3 | ● | ● | ● | ○ | ● | ● | | -03 |
| G-F3-1-4.0 | Grab | SS | 4.0 | | 946 | 3 | ○ | ○ | ○ | ○ | ○ | ○ | | -04 |
| G-F3-1-5.0 | Grab | SS | 5.0 | ↓ | 948 | 3 | ● | ● | ○ | ○ | ○ | ● | | -05 |
| DB [illegible] | Grab | SS | | | | 3 | ● | ● | | | | ● | | |

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740994
Tab C233
Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:
Shipped Via: **FedEX Ground**

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

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| [signature] | 5/23/24 | 1550 | [signature] | 1 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| [signature] | 5/23/24 | 16:30 | SWA CARGO | 140 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | [signature] | 5/24/24 1200 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # Roux Associates, Inc.

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Aguayo/D. Bailey

Site/Facility ID # AB&I Foundry

P.O. # 1793.0030S000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote # P1076441

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH 10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-G4-1-1.0 | Grab | SS | 1.0 | 5/23/24 | 1040 | 3 | ○ | ○ | ● | ● | ● | | | -06 |
| G-G4-1-2.0 | Grab | SS | 2.0 | | 1042 | 4 | ○ | ○ | ● | ○ | ● | ● | | -07 |
| G-G4-1-3.0 | Grab | SS | 3.0 | | 1044 | 3 | ● | ● | ● | ○ | ● | ● | | -08 |
| G-G4-1-4.0 | Grab | SS | 4.0 | | 1046 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -09 |
| G-G4-1-5.0 | Grab | SS | 5.0 | | 1048 | 4 | ● | ● | ○ | ○ | ○ | ● | | -10 |
| DUP-01 | Grab | SS | | | | 3 | ● | ● | | | | ● | | |

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

17065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG #

Table # L174024

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| | 5/23/24 | 1530 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| | 5/23/24 | 16:30 | SWA CNRLO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | | | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
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**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately
Packed on Ice N ___ Y X

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

Quote #
P1076441

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH 10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-11- | Grab | SS | | | | 3 | ● | ● | | | | ● | | -11 |
| P-06-5.0 | Grab | SS | 5 | 5/23/24 | 1250 | 3(4) | X | X | | | | X | | -12 |
| P-08-5.0 | Grab | SS | 5 | 5/23/24 | 1150 | 3(4) | X | X | | | | X | | -13 |
| P-01-16.5. | ↓ | SS | 16.5 | ↓ | 1055 | 3 | X | X | | | | X | | -14 |
| P-01-16.0 | ↓ | SS | 16. | ↓ | 1100 | 4. | X | X | | | | X | | -15 |
| P-02-12.5. | ↓ | SS | 12.5. | ↓ | 0925. | 3 | X | X | | | | X | | -16 |
| GW-6-17.5 | ↓ | SS | 17.5 | ↓ | 1415 | 3 | X | X | | | | X | | -17 |
| GW-6-12.5 | (5) ↓ | SS | 12.5. | (W) ↓ | 1440 | 4. | X | X | | | | X | | -18 |
| TB-052324 | ↓ | W | — | ↓ | 1100 | 1 | X | | | | | X | | -19 |
| EB-052324 | = | W | — | 5/23/24 | 1521 | 9 | X | X | X | | | X | | -20 |

Chain of Custody Page 3 of 3

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

17065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740220

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**
● = ANALYZE
○ = HOLD
X = Analyze

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 5/23/24 | 1530 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/23/24 | 16:30 | SUA CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: / Condition: NCF / OK |
| | | | | | |

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to: **Josh Osborne**

Email To: josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description: **AB&I Redevelopment**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # SDB Page 1

Lab Project # **ROUXOCA-CA**

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH 10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH 10ml/Syr | Hold | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UC-B4-2-1.0 | Grab | SS | 1 | 5/23/24 | 1351 | 3-4 | O | O | X | X | X | O | X | | | | -21 |
| UC-B4-2-2.0 | | SS | 2 | | 1355 | | O | O | X | X | X | X | X | | | | -22 |
| UC-B4-2-3.0 | | SS | 3 | | 1400 | | X | X | X | O | X | O | X | | | | -23 |
| UC-B4-2-4.0 | | SS | 4 | | 1406 | | O | O | O | O | O | O | X | | | | -24 |
| UC-B4-2-5.0 | | SS | 5 | | 1411 | | X | X | O | O | O | X | X | | | | -25 |
| UC-B4-2-8.0 | | SS | 8 | | 1421 | | O | O | O | O | O | O | X | | | | -26 |
| UC-B4-2-10.0 | | SS | 10 | | 1433 | | O | O | O | O | O | X | X | | | | -27 |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |

Chain of Custody Page 4 of 5

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 17402241 LDN2224

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:** X = Analyze
O = Hold

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 5/23/24 | 1530 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/23/24 | 16:30 | SUB CONCO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | | | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #

Lab Project #
**ROUXOCA-CA**

Collected by (print):
Connor Platt

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately
Packed on Ice N___ Y___

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

Date Results Needed

Quote #

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAERLVI 40mlAmb-HCl-BT | GROCA 40mlAmb HCl | M6010CAM17 250mlHDPE-HNO3 | M6010DCAM17 (FF) 250mlHDPE-HNO3 | V8260 40mlAmb-HCl | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-5-2 | G | GW | 7.43 | 5/23/24 | 0920 | 9 | X | X | X | X | X | | | | | | | -74 |
| P-10 | G | GW | 5.55 | \| | 1125 | 9 | X | X | X | X | X | | | | | | | -71 |
| DUP-1 | G | GW | - | \| | 1200 | 9 | X | X | X | X | X | | | | | | | -70 |
| GW-1-1 | G | GW | 8.38 | \| | 1320 | 9 | X | X | X | X | X | | | | | | | -71 |
| GW-2-1 | G | GW | 8.74 | \| | 1445 | 9 | X | X | X | X | X | | | | | | | -72 |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |

Chain of Custody Page 5 of 5

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1740224
Table # 1740224
Acctnum: **ROUXOCA**
Template: **T253289**
Prelogin: **P1076384**
PM: **3500 - Jennifer Gambill**
PB:
Shipped Via: **FedEX Ground**

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

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| Connor Platt | 5/23/24 | 1518 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| | 5/23/24 | 16:30 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: / Condition: NCF / OK |
| | | | | | |

| Tracking Numbers | Temperature |
| --- | --- |
| 526 13161245 0002 | EDA6 1.4+0.1=1.5 |
| 526 13161245 0001 | EDA6 1.2+0.1=1.3 |
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Arlo

Name

5/24/24

Date

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1740636 |
| Samples Received: | 05/25/2024 |
| Project Number: | AB01 |
| Description: | AB&I Redevelopment |

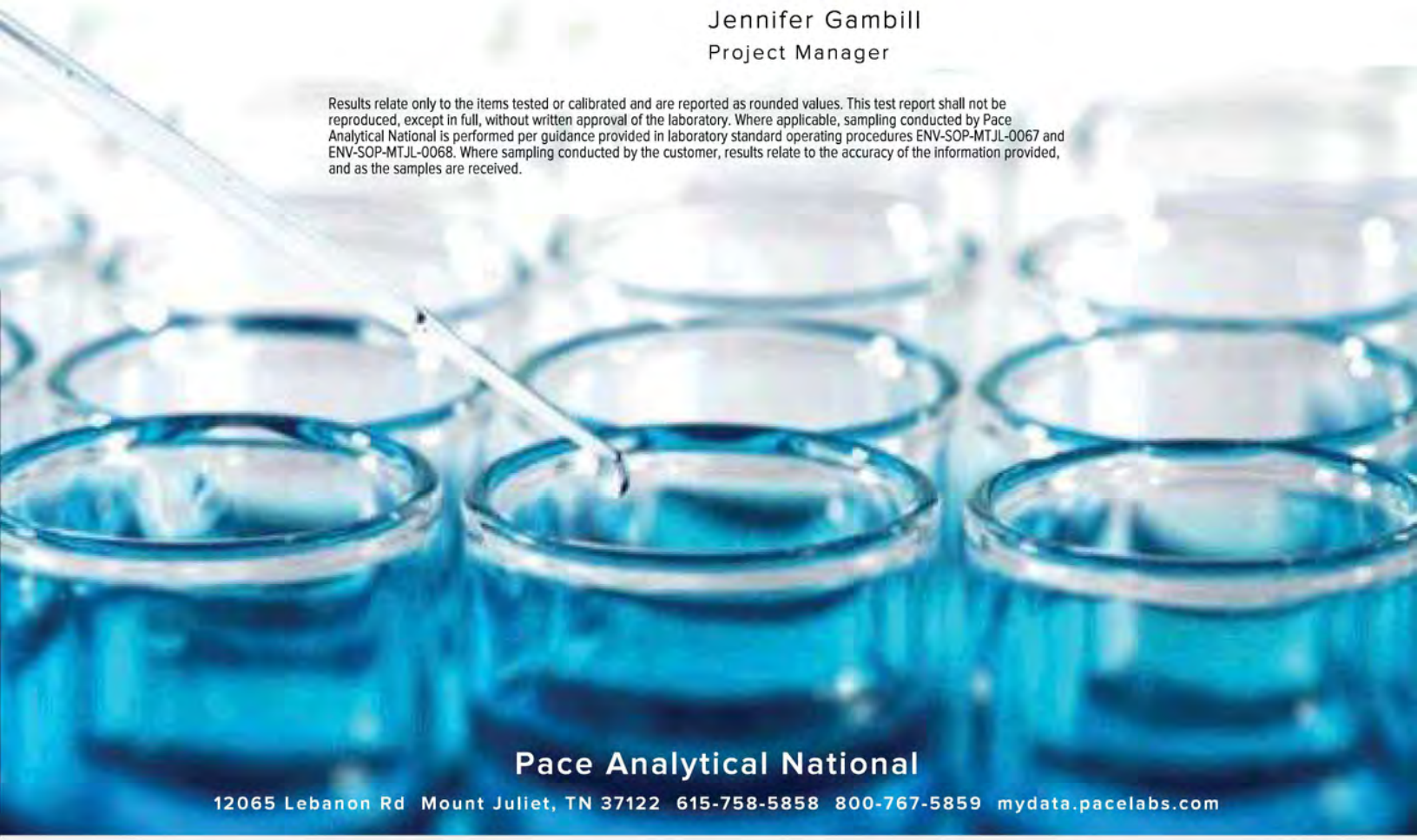
Report To:

Joshua Osborne
555 12th Street
Suite 250
Oakland, CA 94607

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## GW-2-2 L1740636-01 GW

Collected by: Connor Platt | Collected date/time: 05/24/24 08:00 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 23:40 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 22:24 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2328408 | 1 | 07/23/24 14:02 | 07/23/24 19:23 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296380 | 1 | 06/04/24 15:08 | 06/23/24 18:12 | LD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2328447 | 1 | 07/23/24 13:50 | 07/23/24 22:52 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2328447 | 1 | 07/23/24 13:50 | 07/24/24 12:48 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2329697 | 1 | 07/25/24 08:16 | 07/25/24 16:50 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296903 | 1 | 06/02/24 05:00 | 06/02/24 05:00 | DSS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300160 | 20 | 06/07/24 05:25 | 06/07/24 05:25 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296791 | 1 | 06/01/24 19:41 | 06/02/24 12:01 | DMG | Mt. Juliet, TN |

## GW-4-2 L1740636-02 GW

Collected by: Connor Platt | Collected date/time: 05/24/24 10:25 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 22:26 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 23:06 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296309 | 1 | 06/05/24 08:30 | 06/05/24 23:55 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296309 | 1 | 06/05/24 08:30 | 06/07/24 05:58 | JTM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/21/24 15:19 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2328457 | 1 | 07/23/24 13:51 | 07/23/24 22:48 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2328457 | 1 | 07/23/24 13:51 | 07/24/24 12:45 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296903 | 1 | 06/02/24 05:22 | 06/02/24 05:22 | DSS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 11:13 | 06/03/24 11:13 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296791 | 1 | 06/01/24 19:41 | 06/02/24 12:22 | DMG | Mt. Juliet, TN |

## GW-4-1 L1740636-03 GW

Collected by: Connor Platt | Collected date/time: 05/24/24 11:05 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 23:42 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 22:33 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2328408 | 1 | 07/23/24 14:02 | 07/23/24 19:25 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 15:22 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/26/24 18:17 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2328550 | 10 | 07/24/24 12:23 | 07/26/24 16:11 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296903 | 1 | 06/02/24 05:44 | 06/02/24 05:44 | DSS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 11:36 | 06/03/24 11:36 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2294852 | 1 | 05/29/24 18:27 | 05/30/24 12:26 | MAA | Mt. Juliet, TN |

## DUP-2 L1740636-04 GW

Collected by: Connor Platt | Collected date/time: 05/24/24 12:00 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 22:35 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 23:45 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296309 | 1 | 06/05/24 08:30 | 06/05/24 23:24 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296309 | 1 | 06/05/24 08:30 | 06/07/24 05:35 | JTM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/26/24 18:21 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/21/24 15:25 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296903 | 1 | 06/02/24 06:06 | 06/02/24 06:06 | DSS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 11:58 | 06/03/24 11:58 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296791 | 1 | 06/01/24 19:41 | 06/02/24 12:43 | DMG | Mt. Juliet, TN |

# SAMPLE SUMMARY

## P-01 L1740636-05 GW

Collected by: Connor Platt | Collected date/time: 05/24/24 12:05 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 23:47 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 22:38 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2328408 | 1 | 07/23/24 14:02 | 07/23/24 19:27 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 15:29 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/26/24 18:24 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298580 | 20 | 06/05/24 16:50 | 06/05/24 16:50 | KSD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300160 | 25 | 06/07/24 05:46 | 06/07/24 05:46 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 12:26 | MAA | Mt. Juliet, TN |

## P-11 L1740636-06 GW

Collected by: Connor Platt | Collected date/time: 05/24/24 13:05 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 23:49 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 22:40 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2328408 | 1 | 07/23/24 14:02 | 07/23/24 19:28 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 15:39 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 17:32 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/26/24 18:27 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298580 | 1 | 06/05/24 16:27 | 06/05/24 16:27 | KSD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 12:43 | 06/03/24 12:43 | DYW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300160 | 1 | 06/07/24 05:03 | 06/07/24 05:03 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296791 | 1 | 06/01/24 19:41 | 06/02/24 13:04 | DMG | Mt. Juliet, TN |

## P-02 L1740636-07 GW

Collected by: Connor Platt | Collected date/time: 05/24/24 14:10 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 23:56 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 22:42 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2328408 | 1 | 07/23/24 14:02 | 07/23/24 19:34 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 15:42 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 17:36 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/26/24 18:30 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296903 | 1 | 06/02/24 07:12 | 06/02/24 07:12 | DSS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 13:06 | 06/03/24 13:06 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 13:07 | MAA | Mt. Juliet, TN |

## P-12 L1740636-08 GW

Collected by: Connor Platt | Collected date/time: 05/24/24 15:05 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 23:59 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 22:45 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2328408 | 1 | 07/23/24 14:02 | 07/23/24 19:35 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 15:45 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 17:39 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/26/24 18:34 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296903 | 1 | 06/02/24 07:34 | 06/02/24 07:34 | DSS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 13:28 | 06/03/24 13:28 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 13:27 | MAA | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/29/24 13:00
Level II Report - Version 2: 08/15/24 20:03

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

## Sample Delivery Group (SDG) Narrative

**Analysis was filtered in the laboratory.**

| Lab Sample ID | Project Sample ID | Method |
|---|---|---|
| L1740636-01 | GW-2-2 | 6020 |
| R4085388-3 | | 6020 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-2-2 | L1740636-01 | Barium,Dissolved | 65.5 | | 0.736 | 5.00 | 1 | 07/23/2024 19:23 | WG2328408 |
| GW-2-2 | L1740636-01 | Cobalt,Dissolved | 0.949 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:23 | WG2328408 |
| GW-2-2 | L1740636-01 | Molybdenum,Dissolved | 85.7 | | 1.16 | 5.00 | 1 | 07/23/2024 19:23 | WG2328408 |
| GW-2-2 | L1740636-01 | Vanadium,Dissolved | 5.07 | J | 4.99 | 20.0 | 1 | 07/23/2024 19:23 | WG2328408 |
| GW-4-2 | L1740636-02 | Barium,Dissolved | 139 | | 0.736 | 5.00 | 1 | 06/07/2024 05:58 | WG2296309 |
| GW-4-2 | L1740636-02 | Molybdenum,Dissolved | 7.53 | | 1.16 | 5.00 | 1 | 06/05/2024 23:55 | WG2296309 |
| GW-4-1 | L1740636-03 | Barium,Dissolved | 124 | | 0.736 | 5.00 | 1 | 07/23/2024 19:25 | WG2328408 |
| GW-4-1 | L1740636-03 | Cobalt,Dissolved | 3.06 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:25 | WG2328408 |
| GW-4-1 | L1740636-03 | Molybdenum,Dissolved | 9.53 | | 1.16 | 5.00 | 1 | 07/23/2024 19:25 | WG2328408 |
| DUP-2 | L1740636-04 | Barium,Dissolved | 56.1 | | 0.736 | 5.00 | 1 | 06/07/2024 05:35 | WG2296309 |
| DUP-2 | L1740636-04 | Beryllium,Dissolved | 0.358 | J | 0.330 | 2.00 | 1 | 06/05/2024 23:24 | WG2296309 |
| DUP-2 | L1740636-04 | Molybdenum,Dissolved | 75.6 | | 1.16 | 5.00 | 1 | 06/05/2024 23:24 | WG2296309 |
| DUP-2 | L1740636-04 | Vanadium,Dissolved | 8.24 | J | 4.99 | 20.0 | 1 | 06/05/2024 23:24 | WG2296309 |
| P-01 | L1740636-05 | Barium,Dissolved | 218 | | 0.736 | 5.00 | 1 | 07/23/2024 19:27 | WG2328408 |
| P-01 | L1740636-05 | Cobalt,Dissolved | 3.69 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:27 | WG2328408 |
| P-01 | L1740636-05 | Molybdenum,Dissolved | 13.4 | | 1.16 | 5.00 | 1 | 07/23/2024 19:27 | WG2328408 |
| P-11 | L1740636-06 | Barium,Dissolved | 105 | | 0.736 | 5.00 | 1 | 07/23/2024 19:28 | WG2328408 |
| P-11 | L1740636-06 | Cobalt,Dissolved | 2.81 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:28 | WG2328408 |
| P-11 | L1740636-06 | Molybdenum,Dissolved | 17.8 | | 1.16 | 5.00 | 1 | 07/23/2024 19:28 | WG2328408 |
| P-02 | L1740636-07 | Barium,Dissolved | 192 | | 0.736 | 5.00 | 1 | 07/23/2024 19:34 | WG2328408 |
| P-02 | L1740636-07 | Cobalt,Dissolved | 3.44 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:34 | WG2328408 |
| P-02 | L1740636-07 | Molybdenum,Dissolved | 17.5 | | 1.16 | 5.00 | 1 | 07/23/2024 19:34 | WG2328408 |
| P-12 | L1740636-08 | Barium,Dissolved | 87.6 | | 0.736 | 5.00 | 1 | 07/23/2024 19:35 | WG2328408 |
| P-12 | L1740636-08 | Cobalt,Dissolved | 2.14 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:35 | WG2328408 |
| P-12 | L1740636-08 | Molybdenum,Dissolved | 102 | | 1.16 | 5.00 | 1 | 07/23/2024 19:35 | WG2328408 |
| P-12 | L1740636-08 | Vanadium,Dissolved | 8.45 | J | 4.99 | 20.0 | 1 | 07/23/2024 19:35 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-2-2 | L1740636-01 | Antimony | 1.05 | J | 1.03 | 4.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Arsenic | 21.1 | | 0.180 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Arsenic,Dissolved | 8.65 | | 0.180 | 2.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| GW-2-2 | L1740636-01 | Barium | 390 | | 0.381 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Beryllium | 0.688 | J | 0.190 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Cadmium | 0.318 | J | 0.150 | 1.00 | 1 | 07/23/2024 22:52 | WG2328447 |
| GW-2-2 | L1740636-01 | Chromium | 185 | | 1.24 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Copper | 86.3 | | 1.51 | 5.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Cobalt | 21.7 | | 0.0596 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Lead | 11.2 | | 0.849 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Molybdenum | 279 | | 0.348 | 5.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Nickel | 135 | | 0.816 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Nickel,Dissolved | 3.46 | | 0.816 | 2.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| GW-2-2 | L1740636-01 | Selenium | 0.639 | J | 0.300 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Silver | 0.233 | J | 0.0700 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Thallium | 0.189 | J | 0.121 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Vanadium | 63.2 | | 0.664 | 5.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| GW-2-2 | L1740636-01 | Zinc | 427 | | 3.02 | 25.0 | 1 | 07/25/2024 16:50 | WG2329697 |

# DETECTION SUMMARY

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-4-2 | L1740636-02 | Arsenic | 1.30 | J | 0.180 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Arsenic,Dissolved | 0.762 | J | 0.180 | 2.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| GW-4-2 | L1740636-02 | Barium | 208 | | 0.381 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Chromium | 7.00 | | 1.24 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Copper | 7.73 | | 1.51 | 5.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Cobalt | 4.54 | | 0.0596 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Lead | 1.64 | J | 0.849 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Molybdenum | 2.17 | J | 0.348 | 5.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Nickel | 19.7 | | 0.816 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Nickel,Dissolved | 7.09 | | 0.816 | 2.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| GW-4-2 | L1740636-02 | Selenium | 0.314 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Vanadium | 13.3 | | 0.664 | 5.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Zinc | 13.9 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:19 | WG2298769 |
| GW-4-2 | L1740636-02 | Zinc,Dissolved | 3.43 | J | 3.02 | 25.0 | 1 | 07/24/2024 12:45 | WG2328457 |
| GW-4-1 | L1740636-03 | Arsenic | 5.39 | | 0.180 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Arsenic,Dissolved | 2.26 | | 0.180 | 2.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| GW-4-1 | L1740636-03 | Barium | 2610 | | 3.81 | 20.0 | 10 | 07/26/2024 16:11 | WG2328550 |
| GW-4-1 | L1740636-03 | Beryllium | 0.617 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Cadmium | 4.81 | | 0.150 | 1.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Chromium | 42.0 | | 1.24 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Copper | 194 | | 1.51 | 5.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Copper,Dissolved | 2.67 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| GW-4-1 | L1740636-03 | Cobalt | 14.1 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Lead | 35.9 | | 0.849 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Molybdenum | 5.98 | | 0.348 | 5.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Nickel | 66.6 | | 0.816 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Nickel,Dissolved | 7.78 | | 0.816 | 2.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| GW-4-1 | L1740636-03 | Selenium | 0.490 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Silver | 0.417 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Thallium | 0.121 | J | 0.121 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Vanadium | 54.4 | | 0.664 | 5.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Zinc | 276 | | 3.02 | 25.0 | 1 | 06/26/2024 18:17 | WG2298769 |
| GW-4-1 | L1740636-03 | Zinc,Dissolved | 4.69 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:22 | WG2296381 |
| DUP-2 | L1740636-04 | Arsenic | 12.7 | | 0.180 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Arsenic,Dissolved | 8.40 | | 0.180 | 2.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| DUP-2 | L1740636-04 | Barium | 477 | | 0.381 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Beryllium | 1.75 | J | 0.190 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Cadmium | 0.660 | J | 0.150 | 1.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Chromium | 100 | | 1.24 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Copper | 119 | | 1.51 | 5.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Cobalt | 42.0 | | 0.0596 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Lead | 24.5 | | 0.849 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Molybdenum | 20.8 | | 0.348 | 5.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Nickel | 171 | | 0.816 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Nickel,Dissolved | 3.43 | | 0.816 | 2.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| DUP-2 | L1740636-04 | Selenium | 1.80 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Silver | 0.122 | J | 0.0700 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Thallium | 0.183 | J | 0.121 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Vanadium | 141 | | 0.664 | 5.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Zinc | 253 | | 3.02 | 25.0 | 1 | 06/21/2024 15:25 | WG2298769 |
| DUP-2 | L1740636-04 | Zinc,Dissolved | 4.50 | J | 3.02 | 25.0 | 1 | 06/26/2024 18:21 | WG2296381 |

# DETECTION SUMMARY

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-01 | L1740636-05 | Arsenic | 30.5 | | 0.180 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Arsenic,Dissolved | 29.3 | | 0.180 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| P-01 | L1740636-05 | Barium | 255 | | 0.381 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Cadmium | 0.311 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Chromium | 5.13 | | 1.24 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Copper | 12.8 | | 1.51 | 5.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Copper,Dissolved | 2.02 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| P-01 | L1740636-05 | Cobalt | 3.85 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Lead | 5.58 | | 0.849 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Lead,Dissolved | 2.22 | | 0.849 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| P-01 | L1740636-05 | Molybdenum | 14.8 | | 0.348 | 5.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Nickel | 11.0 | | 0.816 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Nickel,Dissolved | 5.26 | | 0.816 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| P-01 | L1740636-05 | Selenium | 0.343 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Selenium,Dissolved | 0.492 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| P-01 | L1740636-05 | Vanadium | 6.09 | | 0.664 | 5.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Zinc | 51.2 | | 3.02 | 25.0 | 1 | 06/26/2024 18:24 | WG2298769 |
| P-01 | L1740636-05 | Zinc,Dissolved | 4.81 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:29 | WG2296381 |
| P-11 | L1740636-06 | Arsenic | 4.56 | | 0.180 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Arsenic,Dissolved | 0.257 | J | 0.180 | 2.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| P-11 | L1740636-06 | Barium | 438 | | 0.381 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Beryllium | 1.15 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Cadmium | 6.10 | | 0.150 | 1.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Cadmium,Dissolved | 5.17 | | 0.150 | 1.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| P-11 | L1740636-06 | Chromium | 32.4 | | 1.24 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Copper | 55.4 | | 1.51 | 5.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Copper,Dissolved | 1.74 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| P-11 | L1740636-06 | Cobalt | 25.3 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Lead | 97.6 | | 0.849 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Molybdenum | 2.40 | J | 0.348 | 5.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Nickel | 98.8 | | 0.816 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Nickel,Dissolved | 4.45 | | 0.816 | 2.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| P-11 | L1740636-06 | Selenium | 0.770 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Silver | 0.0783 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Vanadium | 47.8 | | 0.664 | 5.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Zinc | 525 | | 3.02 | 25.0 | 1 | 06/26/2024 18:27 | WG2298769 |
| P-11 | L1740636-06 | Zinc,Dissolved | 13.3 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:39 | WG2296381 |
| P-02 | L1740636-07 | Arsenic | 10.6 | | 0.180 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Arsenic,Dissolved | 6.95 | | 0.180 | 2.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| P-02 | L1740636-07 | Barium | 316 | | 0.381 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Beryllium | 0.483 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Cadmium | 0.342 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Chromium | 28.5 | | 1.24 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Copper | 26.8 | | 1.51 | 5.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Copper,Dissolved | 2.34 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| P-02 | L1740636-07 | Cobalt | 12.5 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Lead | 8.39 | | 0.849 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Molybdenum | 8.67 | | 0.348 | 5.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Nickel | 51.9 | | 0.816 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Nickel,Dissolved | 8.07 | | 0.816 | 2.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| P-02 | L1740636-07 | Selenium | 0.683 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Selenium,Dissolved | 0.968 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| P-02 | L1740636-07 | Silver | 0.130 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Vanadium | 39.6 | | 0.664 | 5.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| P-02 | L1740636-07 | Zinc | 82.9 | | 3.02 | 25.0 | 1 | 06/26/2024 18:30 | WG2298769 |

# DETECTION SUMMARY

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-12 | L1740636-08 | Antimony,Dissolved | 1.45 | J | 1.03 | 4.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| P-12 | L1740636-08 | Arsenic | 5.41 | | 0.180 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Arsenic,Dissolved | 4.15 | | 0.180 | 2.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| P-12 | L1740636-08 | Barium | 203 | | 0.381 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Beryllium | 0.492 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Cadmium | 0.741 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Chromium | 30.2 | | 1.24 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Copper | 46.6 | | 1.51 | 5.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Copper,Dissolved | 4.74 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| P-12 | L1740636-08 | Cobalt | 10.6 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Lead | 75.1 | | 0.849 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Lead,Dissolved | 1.98 | J | 0.849 | 2.00 | 1 | 06/21/2024 17:39 | WG2296381 |
| P-12 | L1740636-08 | Molybdenum | 49.2 | | 0.348 | 5.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Nickel | 55.9 | | 0.816 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Nickel,Dissolved | 7.11 | | 0.816 | 2.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| P-12 | L1740636-08 | Selenium | 0.451 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Selenium,Dissolved | 0.921 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| P-12 | L1740636-08 | Silver | 0.0847 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Vanadium | 32.6 | | 0.664 | 5.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Zinc | 109 | | 3.02 | 25.0 | 1 | 06/26/2024 18:34 | WG2298769 |
| P-12 | L1740636-08 | Zinc,Dissolved | 5.17 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:45 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-01 | L1740636-05 | TPHG C5 - C12 | 18300 | | 608 | 2000 | 20 | 06/05/2024 16:50 | WG2298580 |
| P-11 | L1740636-06 | TPHG C5 - C12 | 96.8 | B J | 30.4 | 100 | 1 | 06/05/2024 16:27 | WG2298580 |

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

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-4-1 | L1740636-03 | cis-1,2-Dichloroethene | 0.220 | J | 0.126 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| DUP-2 | L1740636-04 | Acetone | 13.2 | J | 11.3 | 50.0 | 1 | 06/03/2024 11:58 | WG2297219 |
| DUP-2 | L1740636-04 | 1,1-Dichloroethane | 3.65 | | 0.100 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| DUP-2 | L1740636-04 | 1,1-Dichloroethene | 1.07 | | 0.188 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| DUP-2 | L1740636-04 | 2-Butanone (MEK) | 2.32 | J | 1.19 | 10.0 | 1 | 06/03/2024 11:58 | WG2297219 |
| DUP-2 | L1740636-04 | 4-Methyl-2-pentanone (MIBK) | 1.34 | J | 0.478 | 10.0 | 1 | 06/03/2024 11:58 | WG2297219 |
| DUP-2 | L1740636-04 | Vinyl chloride | 47.4 | | 0.234 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| P-01 | L1740636-05 | Benzene | 991 | J3 | 2.35 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | n-Butylbenzene | 37.7 | | 3.93 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | sec-Butylbenzene | 12.9 | J J3 | 3.13 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | Ethylbenzene | 1020 | | 3.43 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | Isopropylbenzene | 89.0 | J3 | 2.63 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | Naphthalene | 275 | J3 | 25.0 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | n-Propylbenzene | 218 | | 2.48 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | Toluene | 70.7 | J3 | 6.95 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | 1,2,3-Trimethylbenzene | 43.4 | | 2.60 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | 1,3,5-Trimethylbenzene | 16.0 | J | 2.60 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-01 | L1740636-05 | Xylenes, Total | 48.7 | J J3 | 4.35 | 75.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| P-02 | L1740636-07 | 1,1-Dichloroethane | 0.845 | J | 0.100 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| P-02 | L1740636-07 | 1,1-Dichloroethene | 1.80 | | 0.188 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| P-02 | L1740636-07 | cis-1,2-Dichloroethene | 0.613 | J | 0.126 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |

# DETECTION SUMMARY

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-2-2 | L1740636-01 | C12-C22 Hydrocarbons | 293 | | 33.0 | 100 | 1 | 06/02/2024 12:01 | WG2296791 |
| GW-2-2 | L1740636-01 | C22-C32 Hydrocarbons | 320 | | 33.0 | 100 | 1 | 06/02/2024 12:01 | WG2296791 |
| GW-2-2 | L1740636-01 | C32-C40 Hydrocarbons | 83.6 | J | 33.0 | 100 | 1 | 06/02/2024 12:01 | WG2296791 |
| GW-4-2 | L1740636-02 | C12-C22 Hydrocarbons | 84.1 | J | 33.0 | 100 | 1 | 06/02/2024 12:22 | WG2296791 |
| GW-4-2 | L1740636-02 | C22-C32 Hydrocarbons | 150 | | 33.0 | 100 | 1 | 06/02/2024 12:22 | WG2296791 |
| GW-4-2 | L1740636-02 | C32-C40 Hydrocarbons | 44.6 | J | 33.0 | 100 | 1 | 06/02/2024 12:22 | WG2296791 |
| GW-4-1 | L1740636-03 | C12-C22 Hydrocarbons | 598 | | 33.0 | 100 | 1 | 05/30/2024 12:26 | WG2294852 |
| GW-4-1 | L1740636-03 | C22-C32 Hydrocarbons | 452 | | 33.0 | 100 | 1 | 05/30/2024 12:26 | WG2294852 |
| GW-4-1 | L1740636-03 | C32-C40 Hydrocarbons | 795 | | 33.0 | 100 | 1 | 05/30/2024 12:26 | WG2294852 |
| DUP-2 | L1740636-04 | C12-C22 Hydrocarbons | 477 | | 33.0 | 100 | 1 | 06/02/2024 12:43 | WG2296791 |
| DUP-2 | L1740636-04 | C22-C32 Hydrocarbons | 421 | | 33.0 | 100 | 1 | 06/02/2024 12:43 | WG2296791 |
| DUP-2 | L1740636-04 | C32-C40 Hydrocarbons | 118 | | 33.0 | 100 | 1 | 06/02/2024 12:43 | WG2296791 |
| P-01 | L1740636-05 | C12-C22 Hydrocarbons | 2680 | | 33.0 | 100 | 1 | 05/31/2024 12:26 | WG2295250 |
| P-01 | L1740636-05 | C22-C32 Hydrocarbons | 507 | | 33.0 | 100 | 1 | 05/31/2024 12:26 | WG2295250 |
| P-01 | L1740636-05 | C32-C40 Hydrocarbons | 33.4 | J | 33.0 | 100 | 1 | 05/31/2024 12:26 | WG2295250 |
| P-11 | L1740636-06 | C12-C22 Hydrocarbons | 183 | | 33.0 | 100 | 1 | 06/02/2024 13:04 | WG2296791 |
| P-11 | L1740636-06 | C22-C32 Hydrocarbons | 208 | | 33.0 | 100 | 1 | 06/02/2024 13:04 | WG2296791 |
| P-11 | L1740636-06 | C32-C40 Hydrocarbons | 95.6 | J | 33.0 | 100 | 1 | 06/02/2024 13:04 | WG2296791 |
| P-02 | L1740636-07 | C12-C22 Hydrocarbons | 347 | B | 33.0 | 100 | 1 | 05/31/2024 13:07 | WG2295250 |
| P-02 | L1740636-07 | C22-C32 Hydrocarbons | 250 | | 33.0 | 100 | 1 | 05/31/2024 13:07 | WG2295250 |
| P-02 | L1740636-07 | C32-C40 Hydrocarbons | 71.4 | J | 33.0 | 100 | 1 | 05/31/2024 13:07 | WG2295250 |
| P-12 | L1740636-08 | C12-C22 Hydrocarbons | 176 | B | 33.0 | 100 | 1 | 05/31/2024 13:27 | WG2295250 |
| P-12 | L1740636-08 | C22-C32 Hydrocarbons | 122 | | 33.0 | 100 | 1 | 05/31/2024 13:27 | WG2295250 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 23:40 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:24 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 65.5 | | 0.736 | 5.00 | 1 | 07/23/2024 19:23 | WG2328408 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 07/23/2024 19:23 | WG2328408 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 07/23/2024 19:23 | WG2328408 |
| Cobalt,Dissolved | 0.949 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:23 | WG2328408 |
| Molybdenum,Dissolved | 85.7 | | 1.16 | 5.00 | 1 | 07/23/2024 19:23 | WG2328408 |
| Vanadium,Dissolved | 5.07 | J | 4.99 | 20.0 | 1 | 07/23/2024 19:23 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | 1.05 | J | 1.03 | 4.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Arsenic | 21.1 | | 0.180 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Arsenic,Dissolved | 8.65 | | 0.180 | 2.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Barium | 390 | | 0.381 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Beryllium | 0.688 | J | 0.190 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Cadmium | 0.318 | J | 0.150 | 1.00 | 1 | 07/23/2024 22:52 | WG2328447 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Chromium | 185 | | 1.24 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Copper | 86.3 | | 1.51 | 5.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Copper,Dissolved | U | | 1.51 | 5.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Cobalt | 21.7 | | 0.0596 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Lead | 11.2 | | 0.849 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Molybdenum | 279 | | 0.348 | 5.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Nickel | 135 | | 0.816 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Nickel,Dissolved | 3.46 | | 0.816 | 2.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Selenium | 0.639 | J | 0.300 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Silver | 0.233 | J | 0.0700 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Thallium | 0.189 | J | 0.121 | 2.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/23/2024 18:12 | WG2296380 |
| Vanadium | 63.2 | | 0.664 | 5.00 | 1 | 07/24/2024 12:48 | WG2328447 |
| Zinc | 427 | | 3.02 | 25.0 | 1 | 07/25/2024 16:50 | WG2329697 |
| Zinc,Dissolved | U | | 3.02 | 25.0 | 1 | 06/23/2024 18:12 | WG2296380 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 06/02/2024 05:00 | WG2296903 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *78.0-120* | | *06/02/2024 05:00* | WG2296903 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 226 | 1000 | 20 | 06/07/2024 05:25 | WG2300160 |
| Acrolein | U | | 50.8 | 1000 | 20 | 06/07/2024 05:25 | WG2300160 |
| Acrylonitrile | U | | 13.4 | 200 | 20 | 06/07/2024 05:25 | WG2300160 |
| Benzene | U | J3 | 1.88 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Bromobenzene | U | | 2.36 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Bromodichloromethane | U | | 2.72 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Bromoform | U | J3 J4 | 2.58 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Bromomethane | U | J3 | 12.1 | 100 | 20 | 06/07/2024 05:25 | WG2300160 |
| n-Butylbenzene | U | | 3.14 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| sec-Butylbenzene | U | J3 | 2.50 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| tert-Butylbenzene | U | | 2.54 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Carbon tetrachloride | U | J3 | 2.56 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Chlorobenzene | U | | 2.32 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Chlorodibromomethane | U | | 2.80 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Chloroethane | U | J3 | 3.84 | 100 | 20 | 06/07/2024 05:25 | WG2300160 |
| Chloroform | U | | 2.22 | 100 | 20 | 06/07/2024 05:25 | WG2300160 |
| Chloromethane | U | | 19.2 | 50.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 2-Chlorotoluene | U | | 2.12 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 4-Chlorotoluene | U | | 2.28 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2-Dibromo-3-Chloropropane | U | | 5.52 | 100 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2-Dibromoethane | U | | 2.52 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Dibromomethane | U | | 2.44 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2-Dichlorobenzene | U | | 2.14 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,3-Dichlorobenzene | U | | 2.20 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,4-Dichlorobenzene | U | | 2.40 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Dichlorodifluoromethane | U | J3 | 7.48 | 100 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,1-Dichloroethane | U | | 2.00 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2-Dichloroethane | U | | 1.64 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,1-Dichloroethene | U | | 3.76 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| cis-1,2-Dichloroethene | U | J3 | 2.52 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| trans-1,2-Dichloroethene | U | J3 | 2.98 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2-Dichloropropane | U | | 2.98 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,1-Dichloropropene | U | | 2.84 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,3-Dichloropropane | U | | 2.20 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| cis-1,3-Dichloropropene | U | | 2.22 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| trans-1,3-Dichloropropene | U | J4 | 2.36 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 2,2-Dichloropropane | U | J3 | 3.22 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Di-isopropyl ether | U | J3 | 2.10 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Ethylbenzene | U | | 2.74 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Hexachloro-1,3-butadiene | U | J4 | 6.74 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Isopropylbenzene | U | J3 | 2.10 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| p-Isopropyltoluene | U | J3 | 2.40 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 2-Butanone (MEK) | U | | 23.8 | 200 | 20 | 06/07/2024 05:25 | WG2300160 |
| Methylene Chloride | U | | 8.60 | 100 | 20 | 06/07/2024 05:25 | WG2300160 |
| 4-Methyl-2-pentanone (MIBK) | U | | 9.56 | 200 | 20 | 06/07/2024 05:25 | WG2300160 |
| Methyl tert-butyl ether | U | | 2.02 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Naphthalene | U | J3 | 20.0 | 100 | 20 | 06/07/2024 05:25 | WG2300160 |
| n-Propylbenzene | U | | 1.99 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Styrene | U | | 2.36 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,1,1,2-Tetrachloroethane | U | J3 | 2.94 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,1,2,2-Tetrachloroethane | U | | 2.66 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 3.60 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Tetrachloroethene | U | | 6.00 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Toluene | U | J3 | 5.56 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2,3-Trichlorobenzene | U | | 4.60 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2,4-Trichlorobenzene | U | J3 | 9.62 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | J3 | 2.98 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,1,2-Trichloroethane | U | J3 | 3.16 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Trichloroethene | U | | 3.80 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Trichlorofluoromethane | U | J3 | 3.20 | 100 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2,3-Trichloropropane | U | | 4.74 | 50.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2,4-Trimethylbenzene | U | | 6.44 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,2,3-Trimethylbenzene | U | | 2.08 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| 1,3,5-Trimethylbenzene | U | | 2.08 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Vinyl chloride | U | J3 | 4.68 | 20.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| Xylenes, Total | U | J3 | 3.48 | 60.0 | 20 | 06/07/2024 05:25 | WG2300160 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *06/07/2024 05:25* | WG2300160 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *77.0-126* | | *06/07/2024 05:25* | WG2300160 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *06/07/2024 05:25* | WG2300160 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 293 | | 33.0 | 100 | 1 | 06/02/2024 12:01 | WG2296791 |
| C22-C32 Hydrocarbons | 320 | | 33.0 | 100 | 1 | 06/02/2024 12:01 | WG2296791 |
| C32-C40 Hydrocarbons | 83.6 | J | 33.0 | 100 | 1 | 06/02/2024 12:01 | WG2296791 |
| *(S) o-Terphenyl* | *71.6* | | | *52.0-156* | | *06/02/2024 12:01* | WG2296791 |

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

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:26 | WG2293415 |
| Mercury,Dissolved | U | J6 | 0.100 | 0.200 | 1 | 05/29/2024 23:06 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 139 | | 0.736 | 5.00 | 1 | 06/07/2024 05:58 | WG2296309 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/05/2024 23:55 | WG2296309 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/05/2024 23:55 | WG2296309 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 | 1 | 06/05/2024 23:55 | WG2296309 |
| Molybdenum,Dissolved | 7.53 | | 1.16 | 5.00 | 1 | 06/05/2024 23:55 | WG2296309 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 06/05/2024 23:55 | WG2296309 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| Arsenic | 1.30 | J | 0.180 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Arsenic,Dissolved | 0.762 | J | 0.180 | 2.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| Barium | 208 | | 0.381 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 07/23/2024 22:48 | WG2328457 |
| Chromium | 7.00 | | 1.24 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Copper | 7.73 | | 1.51 | 5.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Copper,Dissolved | U | | 1.51 | 5.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| Cobalt | 4.54 | | 0.0596 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Lead | 1.64 | J | 0.849 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| Molybdenum | 2.17 | J | 0.348 | 5.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Nickel | 19.7 | | 0.816 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Nickel,Dissolved | 7.09 | | 0.816 | 2.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| Selenium | 0.314 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 07/24/2024 12:45 | WG2328457 |
| Vanadium | 13.3 | | 0.664 | 5.00 | 1 | 06/21/2024 15:19 | WG2298769 |
| Zinc | 13.9 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:19 | WG2298769 |
| Zinc,Dissolved | 3.43 | J | 3.02 | 25.0 | 1 | 07/24/2024 12:45 | WG2328457 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 06/02/2024 05:22 | WG2296903 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *78.0-120* | | *06/02/2024 05:22* | WG2296903 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/03/2024 11:13 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 11:13 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 11:13 | WG2297219 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 11:13 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 11:13 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 11:13 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 11:13 | WG2297219 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *06/03/2024 11:13* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *77.0-126* | | *06/03/2024 11:13* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *103* | | | *70.0-130* | | *06/03/2024 11:13* | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 84.1 | J | 33.0 | 100 | 1 | 06/02/2024 12:22 | WG2296791 |
| C22-C32 Hydrocarbons | 150 | | 33.0 | 100 | 1 | 06/02/2024 12:22 | WG2296791 |
| C32-C40 Hydrocarbons | 44.6 | J | 33.0 | 100 | 1 | 06/02/2024 12:22 | WG2296791 |
| *(S) o-Terphenyl* | *71.6* | | | *52.0-156* | | *06/02/2024 12:22* | WG2296791 |

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

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 23:42 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:33 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 124 | | 0.736 | 5.00 | 1 | 07/23/2024 19:25 | WG2328408 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 07/23/2024 19:25 | WG2328408 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 07/23/2024 19:25 | WG2328408 |
| Cobalt,Dissolved | 3.06 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:25 | WG2328408 |
| Molybdenum,Dissolved | 9.53 | | 1.16 | 5.00 | 1 | 07/23/2024 19:25 | WG2328408 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 07/23/2024 19:25 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Arsenic | 5.39 | | 0.180 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Arsenic,Dissolved | 2.26 | | 0.180 | 2.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Barium | 2610 | | 3.81 | 20.0 | 10 | 07/26/2024 16:11 | WG2328550 |
| Beryllium | 0.617 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Cadmium | 4.81 | | 0.150 | 1.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Chromium | 42.0 | | 1.24 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Copper | 194 | | 1.51 | 5.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Copper,Dissolved | 2.67 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Cobalt | 14.1 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Lead | 35.9 | | 0.849 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Molybdenum | 5.98 | | 0.348 | 5.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Nickel | 66.6 | | 0.816 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Nickel,Dissolved | 7.78 | | 0.816 | 2.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Selenium | 0.490 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Silver | 0.417 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Thallium | 0.121 | J | 0.121 | 2.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/21/2024 15:22 | WG2296381 |
| Vanadium | 54.4 | | 0.664 | 5.00 | 1 | 06/26/2024 18:17 | WG2298769 |
| Zinc | 276 | | 3.02 | 25.0 | 1 | 06/26/2024 18:17 | WG2298769 |
| Zinc,Dissolved | 4.69 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:22 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 06/02/2024 05:44 | WG2296903 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.7* | | | *78.0-120* | | *06/02/2024 05:44* | WG2296903 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/03/2024 11:36 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 11:36 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 11:36 | WG2297219 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 11:36 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| cis-1,2-Dichloroethene | 0.220 | J | 0.126 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 11:36 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 11:36 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 11:36 | WG2297219 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *06/03/2024 11:36* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *77.0-126* | | *06/03/2024 11:36* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/03/2024 11:36* | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 598 | | 33.0 | 100 | 1 | 05/30/2024 12:26 | WG2294852 |
| C22-C32 Hydrocarbons | 452 | | 33.0 | 100 | 1 | 05/30/2024 12:26 | WG2294852 |
| C32-C40 Hydrocarbons | 795 | | 33.0 | 100 | 1 | 05/30/2024 12:26 | WG2294852 |
| *(S) o-Terphenyl* | *66.3* | | | *52.0-156* | | *05/30/2024 12:26* | WG2294852 |

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

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:35 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 23:45 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 56.1 | | 0.736 | 5.00 | 1 | 06/07/2024 05:35 | WG2296309 |
| Beryllium,Dissolved | 0.358 | J | 0.330 | 2.00 | 1 | 06/05/2024 23:24 | WG2296309 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/05/2024 23:24 | WG2296309 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 | 1 | 06/05/2024 23:24 | WG2296309 |
| Molybdenum,Dissolved | 75.6 | | 1.16 | 5.00 | 1 | 06/05/2024 23:24 | WG2296309 |
| Vanadium,Dissolved | 8.24 | J | 4.99 | 20.0 | 1 | 06/05/2024 23:24 | WG2296309 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Arsenic | 12.7 | | 0.180 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Arsenic,Dissolved | 8.40 | | 0.180 | 2.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Barium | 477 | | 0.381 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Beryllium | 1.75 | J | 0.190 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Cadmium | 0.660 | J | 0.150 | 1.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Chromium | 100 | | 1.24 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Copper | 119 | | 1.51 | 5.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Copper,Dissolved | U | | 1.51 | 5.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Cobalt | 42.0 | | 0.0596 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Lead | 24.5 | | 0.849 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Molybdenum | 20.8 | | 0.348 | 5.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Nickel | 171 | | 0.816 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Nickel,Dissolved | 3.43 | | 0.816 | 2.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Selenium | 1.80 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Silver | 0.122 | J | 0.0700 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Thallium | 0.183 | J | 0.121 | 2.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:21 | WG2296381 |
| Vanadium | 141 | | 0.664 | 5.00 | 1 | 06/21/2024 15:25 | WG2298769 |
| Zinc | 253 | | 3.02 | 25.0 | 1 | 06/21/2024 15:25 | WG2298769 |
| Zinc,Dissolved | 4.50 | J | 3.02 | 25.0 | 1 | 06/26/2024 18:21 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 06/02/2024 06:06 | WG2296903 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.9* | | | *78.0-120* | | *06/02/2024 06:06* | WG2296903 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 13.2 | J | 11.3 | 50.0 | 1 | 06/03/2024 11:58 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 11:58 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 11:58 | WG2297219 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 11:58 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,1-Dichloroethane | 3.65 | | 0.100 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,1-Dichloroethene | 1.07 | | 0.188 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 2-Butanone (MEK) | 2.32 | J | 1.19 | 10.0 | 1 | 06/03/2024 11:58 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | 1.34 | J | 0.478 | 10.0 | 1 | 06/03/2024 11:58 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Vinyl chloride | 47.4 | | 0.234 | 1.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 11:58 | WG2297219 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *06/03/2024 11:58* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *77.0-126* | | *06/03/2024 11:58* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* | | *06/03/2024 11:58* | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 477 | | 33.0 | 100 | 1 | 06/02/2024 12:43 | WG2296791 |
| C22-C32 Hydrocarbons | 421 | | 33.0 | 100 | 1 | 06/02/2024 12:43 | WG2296791 |
| C32-C40 Hydrocarbons | 118 | | 33.0 | 100 | 1 | 06/02/2024 12:43 | WG2296791 |
| *(S) o-Terphenyl* | *78.4* | | | *52.0-156* | | *06/02/2024 12:43* | WG2296791 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 23:47 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:38 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 218 | | 0.736 | 5.00 | 1 | 07/23/2024 19:27 | WG2328408 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 07/23/2024 19:27 | WG2328408 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 07/23/2024 19:27 | WG2328408 |
| Cobalt,Dissolved | 3.69 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:27 | WG2328408 |
| Molybdenum,Dissolved | 13.4 | | 1.16 | 5.00 | 1 | 07/23/2024 19:27 | WG2328408 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 07/23/2024 19:27 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Arsenic | 30.5 | | 0.180 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Arsenic,Dissolved | 29.3 | | 0.180 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Barium | 255 | | 0.381 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Cadmium | 0.311 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Chromium | 5.13 | | 1.24 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Copper | 12.8 | | 1.51 | 5.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Copper,Dissolved | 2.02 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Cobalt | 3.85 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Lead | 5.58 | | 0.849 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Lead,Dissolved | 2.22 | | 0.849 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Molybdenum | 14.8 | | 0.348 | 5.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Nickel | 11.0 | | 0.816 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Nickel,Dissolved | 5.26 | | 0.816 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Selenium | 0.343 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Selenium,Dissolved | 0.492 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/21/2024 15:29 | WG2296381 |
| Vanadium | 6.09 | | 0.664 | 5.00 | 1 | 06/26/2024 18:24 | WG2298769 |
| Zinc | 51.2 | | 3.02 | 25.0 | 1 | 06/26/2024 18:24 | WG2298769 |
| Zinc,Dissolved | 4.81 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:29 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 18300 | | 608 | 2000 | 20 | 06/05/2024 16:50 | WG2298580 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *78.0-120* | | *06/05/2024 16:50* | WG2298580 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 282 | 1250 | 25 | 06/07/2024 05:46 | WG2300160 |
| Acrolein | U | | 63.5 | 1250 | 25 | 06/07/2024 05:46 | WG2300160 |
| Acrylonitrile | U | | 16.8 | 250 | 25 | 06/07/2024 05:46 | WG2300160 |
| Benzene | 991 | J3 | 2.35 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Bromobenzene | U | | 2.95 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Bromodichloromethane | U | | 3.40 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Bromoform | U | J3 J4 | 3.22 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Bromomethane | U | J3 | 15.1 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| n-Butylbenzene | 37.7 | | 3.93 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| sec-Butylbenzene | 12.9 | J J3 | 3.13 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| tert-Butylbenzene | U | | 3.18 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Carbon tetrachloride | U | J3 | 3.20 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Chlorobenzene | U | | 2.90 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Chlorodibromomethane | U | | 3.50 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Chloroethane | U | J3 | 4.80 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| Chloroform | U | | 2.78 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| Chloromethane | U | | 24.0 | 62.5 | 25 | 06/07/2024 05:46 | WG2300160 |
| 2-Chlorotoluene | U | | 2.65 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 4-Chlorotoluene | U | | 2.85 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2-Dibromo-3-Chloropropane | U | | 6.90 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2-Dibromoethane | U | | 3.15 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Dibromomethane | U | | 3.05 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2-Dichlorobenzene | U | | 2.68 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,3-Dichlorobenzene | U | | 2.75 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,4-Dichlorobenzene | U | | 3.00 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Dichlorodifluoromethane | U | J3 | 9.35 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,1-Dichloroethane | U | | 2.50 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2-Dichloroethane | U | | 2.05 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,1-Dichloroethene | U | | 4.70 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| cis-1,2-Dichloroethene | U | J3 | 3.15 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| trans-1,2-Dichloroethene | U | J3 | 3.73 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2-Dichloropropane | U | | 3.73 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,1-Dichloropropene | U | | 3.55 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,3-Dichloropropane | U | | 2.75 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| cis-1,3-Dichloropropene | U | | 2.78 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| trans-1,3-Dichloropropene | U | J4 | 2.95 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 2,2-Dichloropropane | U | J3 | 4.03 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Di-isopropyl ether | U | J3 | 2.63 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Ethylbenzene | 1020 | | 3.43 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Hexachloro-1,3-butadiene | U | J4 | 8.43 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Isopropylbenzene | 89.0 | J3 | 2.63 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| p-Isopropyltoluene | U | J3 | 3.00 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 2-Butanone (MEK) | U | | 29.8 | 250 | 25 | 06/07/2024 05:46 | WG2300160 |
| Methylene Chloride | U | | 10.7 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| 4-Methyl-2-pentanone (MIBK) | U | | 12.0 | 250 | 25 | 06/07/2024 05:46 | WG2300160 |
| Methyl tert-butyl ether | U | | 2.53 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Naphthalene | 275 | J3 | 25.0 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| n-Propylbenzene | 218 | | 2.48 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Styrene | U | | 2.95 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,1,1,2-Tetrachloroethane | U | J3 | 3.68 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,1,2,2-Tetrachloroethane | U | | 3.33 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 4.50 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Tetrachloroethene | U | | 7.50 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Toluene | 70.7 | J3 | 6.95 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2,3-Trichlorobenzene | U | | 5.75 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2,4-Trichlorobenzene | U | J3 | 12.0 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |

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

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | J3 | 3.73 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,1,2-Trichloroethane | U | J3 | 3.95 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Trichloroethene | U | | 4.75 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Trichlorofluoromethane | U | J3 | 4.00 | 125 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2,3-Trichloropropane | U | | 5.93 | 62.5 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2,4-Trimethylbenzene | U | | 8.05 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,2,3-Trimethylbenzene | 43.4 | | 2.60 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| 1,3,5-Trimethylbenzene | 16.0 | J | 2.60 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Vinyl chloride | U | J3 | 5.85 | 25.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| Xylenes, Total | 48.7 | J J3 | 4.35 | 75.0 | 25 | 06/07/2024 05:46 | WG2300160 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *06/07/2024 05:46* | WG2300160 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *77.0-126* | | *06/07/2024 05:46* | WG2300160 |
| *(S) 1,2-Dichloroethane-d4* | *103* | | | *70.0-130* | | *06/07/2024 05:46* | WG2300160 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2680 | | 33.0 | 100 | 1 | 05/31/2024 12:26 | WG2295250 |
| C22-C32 Hydrocarbons | 507 | | 33.0 | 100 | 1 | 05/31/2024 12:26 | WG2295250 |
| C32-C40 Hydrocarbons | 33.4 | J | 33.0 | 100 | 1 | 05/31/2024 12:26 | WG2295250 |
| *(S) o-Terphenyl* | *70.0* | | | *52.0-156* | | *05/31/2024 12:26* | WG2295250 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 23:49 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:40 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 105 | | 0.736 | 5.00 | 1 | 07/23/2024 19:28 | WG2328408 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 07/23/2024 19:28 | WG2328408 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 07/23/2024 19:28 | WG2328408 |
| Cobalt,Dissolved | 2.81 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:28 | WG2328408 |
| Molybdenum,Dissolved | 17.8 | | 1.16 | 5.00 | 1 | 07/23/2024 19:28 | WG2328408 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 07/23/2024 19:28 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| Arsenic | 4.56 | | 0.180 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Arsenic,Dissolved | 0.257 | J | 0.180 | 2.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| Barium | 438 | | 0.381 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Beryllium | 1.15 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Cadmium | 6.10 | | 0.150 | 1.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Cadmium,Dissolved | 5.17 | | 0.150 | 1.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| Chromium | 32.4 | | 1.24 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Copper | 55.4 | | 1.51 | 5.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Copper,Dissolved | 1.74 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| Cobalt | 25.3 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Lead | 97.6 | | 0.849 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/21/2024 17:32 | WG2296381 |
| Molybdenum | 2.40 | J | 0.348 | 5.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Nickel | 98.8 | | 0.816 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Nickel,Dissolved | 4.45 | | 0.816 | 2.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| Selenium | 0.770 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| Silver | 0.0783 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/21/2024 15:39 | WG2296381 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/21/2024 17:32 | WG2296381 |
| Vanadium | 47.8 | | 0.664 | 5.00 | 1 | 06/26/2024 18:27 | WG2298769 |
| Zinc | 525 | | 3.02 | 25.0 | 1 | 06/26/2024 18:27 | WG2298769 |
| Zinc,Dissolved | 13.3 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:39 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 96.8 | B J | 30.4 | 100 | 1 | 06/05/2024 16:27 | WG2298580 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.0* | | | *78.0-120* | | *06/05/2024 16:27* | WG2298580 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/03/2024 12:43 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 12:43 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 12:43 | WG2297219 |
| Benzene | U | J3 | 0.0941 | 1.00 | 1 | 06/07/2024 05:03 | WG2300160 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 12:43 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/07/2024 05:03 | WG2300160 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 12:43 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 12:43 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Naphthalene | U | J3 | 1.00 | 5.00 | 1 | 06/07/2024 05:03 | WG2300160 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 12:43 | WG2297219 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *06/03/2024 12:43* | WG2297219 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *06/07/2024 05:03* | WG2300160 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *77.0-126* | | *06/03/2024 12:43* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *77.0-126* | | *06/07/2024 05:03* | WG2300160 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* | | *06/03/2024 12:43* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *06/07/2024 05:03* | WG2300160 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 183 | | 33.0 | 100 | 1 | 06/02/2024 13:04 | WG2296791 |
| C22-C32 Hydrocarbons | 208 | | 33.0 | 100 | 1 | 06/02/2024 13:04 | WG2296791 |
| C32-C40 Hydrocarbons | 95.6 | J | 33.0 | 100 | 1 | 06/02/2024 13:04 | WG2296791 |
| *(S) o-Terphenyl* | *65.8* | | | *52.0-156* | | *06/02/2024 13:04* | WG2296791 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 23:56 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:42 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 192 | | 0.736 | 5.00 | 1 | 07/23/2024 19:34 | WG2328408 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 07/23/2024 19:34 | WG2328408 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 07/23/2024 19:34 | WG2328408 |
| Cobalt,Dissolved | 3.44 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:34 | WG2328408 |
| Molybdenum,Dissolved | 17.5 | | 1.16 | 5.00 | 1 | 07/23/2024 19:34 | WG2328408 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 07/23/2024 19:34 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| Arsenic | 10.6 | | 0.180 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Arsenic,Dissolved | 6.95 | | 0.180 | 2.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| Barium | 316 | | 0.381 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Beryllium | 0.483 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Cadmium | 0.342 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| Chromium | 28.5 | | 1.24 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Copper | 26.8 | | 1.51 | 5.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Copper,Dissolved | 2.34 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| Cobalt | 12.5 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Lead | 8.39 | | 0.849 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/21/2024 17:36 | WG2296381 |
| Molybdenum | 8.67 | | 0.348 | 5.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Nickel | 51.9 | | 0.816 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Nickel,Dissolved | 8.07 | | 0.816 | 2.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| Selenium | 0.683 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Selenium,Dissolved | 0.968 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| Silver | 0.130 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/21/2024 15:42 | WG2296381 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/21/2024 17:36 | WG2296381 |
| Vanadium | 39.6 | | 0.664 | 5.00 | 1 | 06/26/2024 18:30 | WG2298769 |
| Zinc | 82.9 | | 3.02 | 25.0 | 1 | 06/26/2024 18:30 | WG2298769 |
| Zinc,Dissolved | U | | 3.02 | 25.0 | 1 | 06/21/2024 15:42 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 06/02/2024 07:12 | WG2296903 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.5* | | | *78.0-120* | | *06/02/2024 07:12* | WG2296903 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/03/2024 13:06 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 13:06 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 13:06 | WG2297219 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 13:06 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,1-Dichloroethane | 0.845 | J | 0.100 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,1-Dichloroethene | 1.80 | | 0.188 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| cis-1,2-Dichloroethene | 0.613 | J | 0.126 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 13:06 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 13:06 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 13:06 | WG2297219 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *06/03/2024 13:06* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *77.0-126* | | *06/03/2024 13:06* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/03/2024 13:06* | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 347 | B | 33.0 | 100 | 1 | 05/31/2024 13:07 | WG2295250 |
| C22-C32 Hydrocarbons | 250 | | 33.0 | 100 | 1 | 05/31/2024 13:07 | WG2295250 |
| C32-C40 Hydrocarbons | 71.4 | J | 33.0 | 100 | 1 | 05/31/2024 13:07 | WG2295250 |
| *(S) o-Terphenyl* | *66.8* | | | *52.0-156* | | *05/31/2024 13:07* | WG2295250 |

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

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 23:59 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:45 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 87.6 | | 0.736 | 5.00 | 1 | 07/23/2024 19:35 | WG2328408 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 07/23/2024 19:35 | WG2328408 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 07/23/2024 19:35 | WG2328408 |
| Cobalt,Dissolved | 2.14 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:35 | WG2328408 |
| Molybdenum,Dissolved | 102 | | 1.16 | 5.00 | 1 | 07/23/2024 19:35 | WG2328408 |
| Vanadium,Dissolved | 8.45 | J | 4.99 | 20.0 | 1 | 07/23/2024 19:35 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Antimony,Dissolved | 1.45 | J | 1.03 | 4.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| Arsenic | 5.41 | | 0.180 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Arsenic,Dissolved | 4.15 | | 0.180 | 2.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| Barium | 203 | | 0.381 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Beryllium | 0.492 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Cadmium | 0.741 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| Chromium | 30.2 | | 1.24 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Copper | 46.6 | | 1.51 | 5.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Copper,Dissolved | 4.74 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| Cobalt | 10.6 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Lead | 75.1 | | 0.849 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Lead,Dissolved | 1.98 | J | 0.849 | 2.00 | 1 | 06/21/2024 17:39 | WG2296381 |
| Molybdenum | 49.2 | | 0.348 | 5.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Nickel | 55.9 | | 0.816 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Nickel,Dissolved | 7.11 | | 0.816 | 2.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| Selenium | 0.451 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Selenium,Dissolved | 0.921 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| Silver | 0.0847 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/21/2024 15:45 | WG2296381 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/21/2024 17:39 | WG2296381 |
| Vanadium | 32.6 | | 0.664 | 5.00 | 1 | 06/26/2024 18:34 | WG2298769 |
| Zinc | 109 | | 3.02 | 25.0 | 1 | 06/26/2024 18:34 | WG2298769 |
| Zinc,Dissolved | 5.17 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:45 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 06/02/2024 07:34 | WG2296903 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *78.0-120* | | *06/02/2024 07:34* | WG2296903 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/03/2024 13:28 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 13:28 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 13:28 | WG2297219 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 13:28 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 13:28 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 13:28 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 13:28 | WG2297219 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *06/03/2024 13:28* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *77.0-126* | | *06/03/2024 13:28* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/03/2024 13:28* | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 176 | B | 33.0 | 100 | 1 | 05/31/2024 13:27 | WG2295250 |
| C22-C32 Hydrocarbons | 122 | | 33.0 | 100 | 1 | 05/31/2024 13:27 | WG2295250 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 13:27 | WG2295250 |
| *(S) o-Terphenyl* | *58.4* | | | *52.0-156* | | *05/31/2024 13:27* | WG2295250 |

# QUALITY CONTROL SUMMARY

L1740636-01,02,03,04,05,06,07,08

## Method Blank (MB)

(MB) R4075150-1 05/29/24 21:46

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | ug/l | | ug/l | ug/l |
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4075150-2 05/29/24 21:48

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | ug/l | ug/l | % | % | |
| Mercury | 3.00 | 2.85 | 95.1 | 80.0-120 | |

## L1740632-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740632-13 05/29/24 21:50 • (MS) R4075150-4 05/29/24 21:55 • (MSD) R4075150-5 05/29/24 21:57

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ug/l | ug/l | ug/l | ug/l | % | % | | % | | | % | % |
| Mercury | 3.00 | U | 1.68 | 1.59 | 56.1 | 53.0 | 1 | 75.0-125 | J6 | J6 | 5.62 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-01,02,03,04,05,06,07,08

## Method Blank (MB)

(MB) R4075151-1 05/29/24 23:01

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury,Dissolved | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4075151-2 05/29/24 23:03

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | 2.87 | 95.8 | 80.0-120 | |

## L1740636-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740636-02 05/29/24 23:06 • (MS) R4075151-4 05/29/24 23:10 • (MSD) R4075151-5 05/29/24 23:13

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | U | 1.37 | 1.32 | 45.5 | 44.1 | 1 | 75.0-125 | J6 | J6 | 3.15 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-02,04

## Method Blank (MB)

(MB) R4077876-1 06/05/24 23:20

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | 5.39 | | 0.736 | 5.00 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 |
| Chromium,Dissolved | U | | 1.40 | 10.0 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 |

## Method Blank (MB)

(MB) R4078424-1 06/07/24 05:29

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | 5.38 | | 0.736 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077876-2 06/05/24 23:22

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 1020 | 102 | 80.0-120 | |
| Beryllium,Dissolved | 1000 | 1010 | 101 | 80.0-120 | |
| Chromium,Dissolved | 1000 | 1020 | 102 | 80.0-120 | |
| Cobalt,Dissolved | 1000 | 927 | 92.7 | 80.0-120 | |
| Molybdenum,Dissolved | 1000 | 1030 | 103 | 80.0-120 | |
| Vanadium,Dissolved | 1000 | 990 | 99.0 | 80.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078424-2 06/07/24 05:32

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 992 | 99.2 | 80.0-120 | |

## L1740636-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740636-04 06/05/24 23:24 • (MS) R4077876-4 06/05/24 23:27 • (MSD) R4077876-5 06/05/24 23:29

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 58.1 | 1070 | 1060 | 101 | 100 | 1 | 75.0-125 | | | 0.673 | 20 |
| Beryllium,Dissolved | 1000 | 0.358 | 1040 | 1030 | 104 | 103 | 1 | 75.0-125 | | | 0.856 | 20 |
| Chromium,Dissolved | 1000 | U | 1020 | 1020 | 102 | 102 | 1 | 75.0-125 | | | 0.0701 | 20 |
| Cobalt,Dissolved | 1000 | U | 983 | 986 | 98.3 | 98.6 | 1 | 75.0-125 | | | 0.291 | 20 |
| Molybdenum,Dissolved | 1000 | 75.6 | 1110 | 1120 | 104 | 104 | 1 | 75.0-125 | | | 0.721 | 20 |
| Vanadium,Dissolved | 1000 | 8.24 | 1030 | 1020 | 102 | 101 | 1 | 75.0-125 | | | 0.418 | 20 |

## L1740636-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740636-04 06/07/24 05:35 • (MS) R4078424-4 06/07/24 05:42 • (MSD) R4078424-5 06/07/24 05:45

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 56.1 | 1040 | 1040 | 98.5 | 98.3 | 1 | 75.0-125 | | | 0.197 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-01,03,05,06,07,08

## Method Blank (MB)

(MB) R4097588-1 07/23/24 19:13

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | U | | 0.736 | 5.00 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 |
| Chromium,Dissolved | U | | 1.40 | 10.0 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 |

## Laboratory Control Sample (LCS)

(LCS) R4097588-2 07/23/24 19:15

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 991 | 99.1 | 80.0-120 | |
| Beryllium,Dissolved | 1000 | 976 | 97.6 | 80.0-120 | |
| Chromium,Dissolved | 1000 | 979 | 97.9 | 80.0-120 | |
| Cobalt,Dissolved | 1000 | 956 | 95.6 | 80.0-120 | |
| Molybdenum,Dissolved | 1000 | 938 | 93.8 | 80.0-120 | |
| Vanadium,Dissolved | 1000 | 958 | 95.8 | 80.0-120 | |

## L1740641-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740641-02 07/23/24 19:16 • (MS) R4097588-4 07/23/24 19:20 • (MSD) R4097588-5 07/23/24 19:22

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 122 | 1110 | 1090 | 98.6 | 97.2 | 1 | 75.0-125 | | | 1.27 | 20 |
| Beryllium,Dissolved | 1000 | U | 1000 | 997 | 100 | 99.7 | 1 | 75.0-125 | | | 0.799 | 20 |
| Chromium,Dissolved | 1000 | U | 990 | 968 | 99.0 | 96.8 | 1 | 75.0-125 | | | 2.25 | 20 |
| Cobalt,Dissolved | 1000 | 3.84 | 1010 | 994 | 100 | 99.0 | 1 | 75.0-125 | | | 1.40 | 20 |
| Molybdenum,Dissolved | 1000 | 45.7 | 1010 | 989 | 96.0 | 94.4 | 1 | 75.0-125 | | | 1.62 | 20 |
| Vanadium,Dissolved | 1000 | U | 985 | 976 | 98.5 | 97.6 | 1 | 75.0-125 | | | 0.987 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-01

## Method Blank (MB)

(MB) R4085388-1 06/23/24 17:10

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony,Dissolved | U | | 1.03 | 4.00 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 |
| Copper,Dissolved | U | | 1.51 | 5.00 |
| Lead,Dissolved | U | | 0.849 | 2.00 |
| Nickel,Dissolved | U | | 0.816 | 2.00 |
| Selenium,Dissolved | U | | 0.300 | 2.00 |
| Silver,Dissolved | U | | 0.0700 | 2.00 |
| Thallium,Dissolved | U | | 0.121 | 2.00 |
| Zinc,Dissolved | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4085388-2 06/23/24 17:13

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | 51.9 | 104 | 80.0-120 | |
| Arsenic,Dissolved | 50.0 | 52.2 | 104 | 80.0-120 | |
| Cadmium,Dissolved | 50.0 | 52.7 | 105 | 80.0-120 | |
| Copper,Dissolved | 50.0 | 52.2 | 104 | 80.0-120 | |
| Lead,Dissolved | 50.0 | 51.4 | 103 | 80.0-120 | |
| Nickel,Dissolved | 50.0 | 55.5 | 111 | 80.0-120 | |
| Selenium,Dissolved | 50.0 | 50.6 | 101 | 80.0-120 | |
| Silver,Dissolved | 50.0 | 51.3 | 103 | 80.0-120 | |
| Thallium,Dissolved | 50.0 | 50.3 | 101 | 80.0-120 | |
| Zinc,Dissolved | 50.0 | 52.5 | 105 | 80.0-120 | |

## L1740600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740600-01 06/23/24 17:16 • (MS) R4085388-4 06/23/24 17:23 • (MSD) R4085388-5 06/23/24 17:26

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | U | 50.5 | 49.5 | 101 | 99.0 | 1 | 75.0-125 | | | 1.95 | 20 |
| Arsenic,Dissolved | 50.0 | 0.864 | 51.6 | 53.7 | 101 | 106 | 1 | 75.0-125 | | | 4.02 | 20 |
| Cadmium,Dissolved | 50.0 | U | 52.5 | 51.2 | 105 | 102 | 1 | 75.0-125 | | | 2.33 | 20 |
| Copper,Dissolved | 50.0 | 2.56 | 52.0 | 50.5 | 98.9 | 95.9 | 1 | 75.0-125 | | | 2.94 | 20 |
| Lead,Dissolved | 50.0 | U | 50.7 | 49.8 | 101 | 99.6 | 1 | 75.0-125 | | | 1.75 | 20 |
| Nickel,Dissolved | 50.0 | 3.52 | 54.5 | 56.9 | 102 | 107 | 1 | 75.0-125 | | | 4.31 | 20 |
| Selenium,Dissolved | 50.0 | U | 51.2 | 50.3 | 102 | 101 | 1 | 75.0-125 | | | 1.87 | 20 |

## L1740600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740600-01 06/23/24 17:16 • (MS) R4085388-4 06/23/24 17:23 • (MSD) R4085388-5 06/23/24 17:26

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver,Dissolved | 50.0 | U | 51.2 | 50.9 | 102 | 102 | 1 | 75.0-125 | | | 0.488 | 20 |
| Thallium,Dissolved | 50.0 | U | 50.5 | 48.2 | 101 | 96.4 | 1 | 75.0-125 | | | 4.60 | 20 |
| Zinc,Dissolved | 50.0 | 12.5 | 58.7 | 56.1 | 92.5 | 87.2 | 1 | 75.0-125 | | | 4.62 | 20 |

## L1740600-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740600-02 06/23/24 17:30 • (MS) R4085388-6 06/23/24 17:33 • (MSD) R4085388-7 06/23/24 17:36

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | U | 50.9 | 51.3 | 102 | 103 | 1 | 75.0-125 | | | 0.785 | 20 |
| Arsenic,Dissolved | 50.0 | 3.16 | 55.9 | 53.2 | 106 | 100 | 1 | 75.0-125 | | | 5.10 | 20 |
| Cadmium,Dissolved | 50.0 | U | 52.0 | 53.2 | 104 | 106 | 1 | 75.0-125 | | | 2.17 | 20 |
| Copper,Dissolved | 50.0 | U | 50.5 | 49.9 | 101 | 99.8 | 1 | 75.0-125 | | | 1.16 | 20 |
| Lead,Dissolved | 50.0 | U | 50.6 | 49.8 | 101 | 99.6 | 1 | 75.0-125 | | | 1.68 | 20 |
| Nickel,Dissolved | 50.0 | U | 55.3 | 52.1 | 111 | 104 | 1 | 75.0-125 | | | 5.89 | 20 |
| Selenium,Dissolved | 50.0 | U | 50.1 | 51.2 | 100 | 102 | 1 | 75.0-125 | | | 2.11 | 20 |
| Silver,Dissolved | 50.0 | U | 52.3 | 53.3 | 105 | 107 | 1 | 75.0-125 | | | 1.80 | 20 |
| Thallium,Dissolved | 50.0 | U | 49.8 | 48.8 | 99.6 | 97.6 | 1 | 75.0-125 | | | 2.06 | 20 |
| Zinc,Dissolved | 50.0 | 13.1 | 59.7 | 51.8 | 93.2 | 77.4 | 1 | 75.0-125 | | | 14.2 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-03,04,05,06,07,08

## Method Blank (MB)

(MB) R4086714-1 06/26/24 13:25

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony,Dissolved | U | | 1.03 | 4.00 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 |
| Copper,Dissolved | U | | 1.51 | 5.00 |
| Lead,Dissolved | U | | 0.849 | 2.00 |
| Nickel,Dissolved | U | | 0.816 | 2.00 |
| Selenium,Dissolved | U | | 0.300 | 2.00 |
| Silver,Dissolved | U | | 0.0700 | 2.00 |
| Thallium,Dissolved | U | | 0.121 | 2.00 |
| Zinc,Dissolved | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4086714-2 06/26/24 13:29

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | 46.8 | 93.6 | 80.0-120 | |
| Arsenic,Dissolved | 50.0 | 51.7 | 103 | 80.0-120 | |
| Cadmium,Dissolved | 50.0 | 53.1 | 106 | 80.0-120 | |
| Copper,Dissolved | 50.0 | 50.5 | 101 | 80.0-120 | |
| Lead,Dissolved | 50.0 | 51.9 | 104 | 80.0-120 | |
| Nickel,Dissolved | 50.0 | 55.5 | 111 | 80.0-120 | |
| Selenium,Dissolved | 50.0 | 50.6 | 101 | 80.0-120 | |
| Silver,Dissolved | 50.0 | 50.9 | 102 | 80.0-120 | |
| Thallium,Dissolved | 50.0 | 53.0 | 106 | 80.0-120 | |
| Zinc,Dissolved | 50.0 | 50.7 | 101 | 80.0-120 | |

## L1740651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740651-01 06/26/24 17:42 • (MS) R4086714-10 06/26/24 17:48 • (MSD) R4086714-11 06/26/24 17:51

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | U | 52.6 | 54.5 | 105 | 109 | 1 | 75.0-125 | | | 3.53 | 20 |
| Arsenic,Dissolved | 50.0 | 43.9 | 94.7 | 96.5 | 102 | 105 | 1 | 75.0-125 | | | 1.82 | 20 |
| Cadmium,Dissolved | 50.0 | U | 53.5 | 55.0 | 107 | 110 | 1 | 75.0-125 | | | 2.73 | 20 |
| Copper,Dissolved | 50.0 | U | 52.1 | 53.5 | 104 | 107 | 1 | 75.0-125 | | | 2.66 | 20 |
| Lead,Dissolved | 50.0 | U | 51.2 | 53.5 | 102 | 107 | 1 | 75.0-125 | | | 4.40 | 20 |
| Nickel,Dissolved | 50.0 | 2.47 | 52.6 | 54.6 | 100 | 104 | 1 | 75.0-125 | | | 3.73 | 20 |
| Selenium,Dissolved | 50.0 | 36.2 | 90.5 | 90.5 | 109 | 109 | 1 | 75.0-125 | | | 0.0403 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-03,04,05,06,07,08

## L1740651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740651-01 06/26/24 17:42 • (MS) R4086714-10 06/26/24 17:48 • (MSD) R4086714-11 06/26/24 17:51

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver,Dissolved | 50.0 | 0.0812 | 51.6 | 53.2 | 103 | 106 | 1 | 75.0-125 | | | 3.03 | 20 |
| Thallium,Dissolved | 50.0 | U | 49.2 | 51.1 | 98.4 | 102 | 1 | 75.0-125 | | | 3.71 | 20 |
| Zinc,Dissolved | 50.0 | U | 50.7 | 50.8 | 101 | 102 | 1 | 75.0-125 | | | 0.204 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-02,03,04,05,06,07,08

## Method Blank (MB)

(MB) R4084816-1 06/21/24 12:51

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4084816-2 06/21/24 12:55

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 48.8 | 97.5 | 80.0-120 | |
| Arsenic | 50.0 | 50.9 | 102 | 80.0-120 | |
| Barium | 50.0 | 45.7 | 91.5 | 80.0-120 | |
| Beryllium | 50.0 | 50.3 | 101 | 80.0-120 | |
| Cadmium | 50.0 | 52.4 | 105 | 80.0-120 | |
| Chromium | 50.0 | 51.7 | 103 | 80.0-120 | |
| Copper | 50.0 | 50.7 | 101 | 80.0-120 | |
| Cobalt | 50.0 | 51.7 | 103 | 80.0-120 | |
| Lead | 50.0 | 50.9 | 102 | 80.0-120 | |
| Molybdenum | 50.0 | 47.3 | 94.7 | 80.0-120 | |
| Nickel | 50.0 | 51.4 | 103 | 80.0-120 | |
| Selenium | 50.0 | 49.7 | 99.4 | 80.0-120 | |
| Silver | 50.0 | 49.6 | 99.2 | 80.0-120 | |
| Thallium | 50.0 | 50.1 | 100 | 80.0-120 | |
| Vanadium | 50.0 | 50.1 | 100 | 80.0-120 | |
| Zinc | 50.0 | 52.0 | 104 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1740636-02,03,04,05,06,07,08

## L1740632-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740632-08 06/21/24 12:58 • (MS) R4084816-4 06/21/24 13:05 • (MSD) R4084816-5 06/21/24 13:08

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 50.7 | 48.8 | 101 | 97.6 | 1 | 75.0-125 | | | 3.77 | 20 |
| Arsenic | 50.0 | 0.516 | 51.4 | 50.3 | 102 | 99.5 | 1 | 75.0-125 | | | 2.16 | 20 |
| Barium | 50.0 | 13.9 | 59.8 | 61.2 | 91.7 | 94.6 | 1 | 75.0-125 | | | 2.40 | 20 |
| Beryllium | 50.0 | U | 49.6 | 50.2 | 99.1 | 100 | 1 | 75.0-125 | | | 1.36 | 20 |
| Cadmium | 50.0 | 0.313 | 53.7 | 54.2 | 107 | 108 | 1 | 75.0-125 | | | 1.10 | 20 |
| Chromium | 50.0 | U | 52.2 | 49.7 | 104 | 99.4 | 1 | 75.0-125 | | | 4.90 | 20 |
| Copper | 50.0 | U | 50.7 | 52.5 | 101 | 105 | 1 | 75.0-125 | | | 3.44 | 20 |
| Cobalt | 50.0 | 0.790 | 53.1 | 51.2 | 105 | 101 | 1 | 75.0-125 | | | 3.65 | 20 |
| Lead | 50.0 | U | 50.7 | 51.2 | 101 | 102 | 1 | 75.0-125 | | | 0.998 | 20 |
| Molybdenum | 50.0 | U | 47.0 | 46.7 | 94.0 | 93.5 | 1 | 75.0-125 | | | 0.613 | 20 |
| Nickel | 50.0 | 15.7 | 67.3 | 65.1 | 103 | 98.9 | 1 | 75.0-125 | | | 3.32 | 20 |
| Selenium | 50.0 | U | 48.2 | 50.5 | 96.3 | 101 | 1 | 75.0-125 | | | 4.73 | 20 |
| Silver | 50.0 | U | 50.8 | 50.2 | 102 | 100 | 1 | 75.0-125 | | | 1.20 | 20 |
| Thallium | 50.0 | U | 50.0 | 50.4 | 100 | 101 | 1 | 75.0-125 | | | 0.880 | 20 |
| Vanadium | 50.0 | U | 49.5 | 48.1 | 99.1 | 96.2 | 1 | 75.0-125 | | | 2.98 | 20 |
| Zinc | 50.0 | 105 | 154 | 143 | 97.1 | 75.8 | 1 | 75.0-125 | | | 7.19 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-01

## Method Blank (MB)

(MB) R4097854-1 07/23/24 22:32

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Cadmium | U | | 0.150 | 1.00 |

## Method Blank (MB)

(MB) R4097857-1 07/24/24 12:28

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4097854-2 07/23/24 22:42 • (LCSD) R4097854-3 07/23/24 22:45

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 50.0 | 50.3 | 50.4 | 101 | 101 | 80.0-120 | | | 0.159 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4097857-2 07/24/24 12:32 • (LCSD) R4097857-3 07/24/24 12:35

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | 53.3 | 52.7 | 107 | 105 | 80.0-120 | | | 1.23 | 20 |
| Arsenic | 50.0 | 50.9 | 51.1 | 102 | 102 | 80.0-120 | | | 0.528 | 20 |
| Barium | 50.0 | 48.3 | 48.6 | 96.6 | 97.2 | 80.0-120 | | | 0.604 | 20 |
| Beryllium | 50.0 | 47.6 | 49.9 | 95.1 | 99.9 | 80.0-120 | | | 4.85 | 20 |
| Chromium | 50.0 | 52.3 | 52.3 | 105 | 105 | 80.0-120 | | | 0.114 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-01

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4097857-2 07/24/24 12:32 • (LCSD) R4097857-3 07/24/24 12:35

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Copper | 50.0 | 52.6 | 53.3 | 105 | 107 | 80.0-120 | | | 1.27 | 20 |
| Cobalt | 50.0 | 52.7 | 52.9 | 105 | 106 | 80.0-120 | | | 0.337 | 20 |
| Lead | 50.0 | 49.9 | 49.0 | 99.9 | 98.1 | 80.0-120 | | | 1.84 | 20 |
| Molybdenum | 50.0 | 50.5 | 51.8 | 101 | 104 | 80.0-120 | | | 2.41 | 20 |
| Nickel | 50.0 | 52.7 | 52.8 | 105 | 106 | 80.0-120 | | | 0.212 | 20 |
| Selenium | 50.0 | 49.5 | 49.0 | 98.9 | 97.9 | 80.0-120 | | | 1.01 | 20 |
| Silver | 50.0 | 49.8 | 50.1 | 99.6 | 100 | 80.0-120 | | | 0.473 | 20 |
| Thallium | 50.0 | 46.0 | 46.7 | 91.9 | 93.4 | 80.0-120 | | | 1.58 | 20 |
| Vanadium | 50.0 | 52.0 | 51.9 | 104 | 104 | 80.0-120 | | | 0.212 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-02

## Method Blank (MB)

(MB) R4097852-1 07/23/24 22:29

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Cadmium,Dissolved | U | | 0.150 | 1.00 |

## Method Blank (MB)

(MB) R4097856-1 07/24/24 12:25

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony,Dissolved | U | | 1.03 | 4.00 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 |
| Copper,Dissolved | U | | 1.51 | 5.00 |
| Lead,Dissolved | U | | 0.849 | 2.00 |
| Nickel,Dissolved | U | | 0.816 | 2.00 |
| Selenium,Dissolved | U | | 0.300 | 2.00 |
| Silver,Dissolved | U | | 0.0700 | 2.00 |
| Thallium,Dissolved | 0.222 | J | 0.121 | 2.00 |
| Zinc,Dissolved | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4097852-2 07/23/24 22:35 • (LCSD) R4097852-3 07/23/24 22:39

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium,Dissolved | 50.0 | 51.1 | 51.2 | 102 | 102 | 80.0-120 | | | 0.122 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4097856-2 07/24/24 12:38 • (LCSD) R4097856-3 07/24/24 12:41

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | 53.6 | 53.7 | 107 | 107 | 80.0-120 | | | 0.0733 | 20 |
| Arsenic,Dissolved | 50.0 | 51.6 | 52.6 | 103 | 105 | 80.0-120 | | | 2.02 | 20 |
| Copper,Dissolved | 50.0 | 53.6 | 53.6 | 107 | 107 | 80.0-120 | | | 0.00860 | 20 |
| Lead,Dissolved | 50.0 | 50.4 | 49.6 | 101 | 99.2 | 80.0-120 | | | 1.60 | 20 |
| Nickel,Dissolved | 50.0 | 52.9 | 53.6 | 106 | 107 | 80.0-120 | | | 1.24 | 20 |
| Selenium,Dissolved | 50.0 | 50.7 | 50.5 | 101 | 101 | 80.0-120 | | | 0.386 | 20 |
| Silver,Dissolved | 50.0 | 49.4 | 49.6 | 98.7 | 99.3 | 80.0-120 | | | 0.544 | 20 |
| Thallium,Dissolved | 50.0 | 47.4 | 46.6 | 94.8 | 93.1 | 80.0-120 | | | 1.79 | 20 |
| Zinc,Dissolved | 50.0 | 50.4 | 52.3 | 101 | 105 | 80.0-120 | | | 3.63 | 20 |

## Method Blank (MB)

(MB) R4098979-1 07/26/24 12:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium | 0.537 | J | 0.381 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4098979-2 07/26/24 12:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium | 50.0 | 51.0 | 102 | 80.0-120 | |

## L1757498-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757498-01 07/26/24 12:51 • (MS) R4098979-4 07/26/24 12:57 • (MSD) R4098979-5 07/26/24 13:01

| Analyte | Spike Amount ug/l | Original Result | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 50.0 | | 280 | 282 | 103 | 106 | 1 | 75.0-125 | | | 0.590 | 20 |

# QUALITY CONTROL SUMMARY

L1740636-01

## Method Blank (MB)

(MB) R4098700-1 07/25/24 16:30

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4098700-2 07/25/24 16:33

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Zinc | 50.0 | 48.7 | 97.5 | 80.0-120 | |

## L1759532-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1759532-01 07/25/24 16:37 • (MS) R4098700-4 07/25/24 16:43 • (MSD) R4098700-5 07/25/24 16:47

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 50.0 | U | 48.1 | 48.5 | 96.2 | 97.0 | 1 | 75.0-125 | | | 0.752 | 20 |

## Method Blank (MB)

(MB) R4077206-2 06/01/24 21:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4077206-1 06/01/24 20:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 5700 | 114 | 71.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *105* | *78.0-120* | |

## Method Blank (MB)

(MB) R4078073-2 06/05/24 12:24

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | 69.7 | J | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078073-1 06/05/24 11:39

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 5590 | 112 | 71.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *105* | *78.0-120* | |

## Method Blank (MB)

(MB) R4078198-3 06/03/24 08:36

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

## Method Blank (MB)

(MB) R4078198-3 06/03/24 08:36

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078198-1 06/03/24 07:29 • (LCSD) R4078198-2 06/03/24 07:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 34.4 | 38.2 | 138 | 153 | 19.0-160 | J | J | 10.5 | 27 |
| Acrolein | 25.0 | 14.7 | 17.4 | 58.8 | 69.6 | 10.0-160 | J | J | 16.8 | 26 |
| Acrylonitrile | 25.0 | 26.4 | 30.5 | 106 | 122 | 55.0-149 | | | 14.4 | 20 |
| Benzene | 5.00 | 4.91 | 5.74 | 98.2 | 115 | 70.0-123 | | | 15.6 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078198-1 06/03/24 07:29 • (LCSD) R4078198-2 06/03/24 07:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 5.54 | 6.19 | 111 | 124 | 73.0-121 | | J4 | 11.1 | 20 |
| Bromodichloromethane | 5.00 | 4.62 | 5.28 | 92.4 | 106 | 75.0-120 | | | 13.3 | 20 |
| Bromoform | 5.00 | 4.29 | 5.03 | 85.8 | 101 | 68.0-132 | | | 15.9 | 20 |
| Bromomethane | 5.00 | 6.25 | 7.09 | 125 | 142 | 10.0-160 | | | 12.6 | 25 |
| n-Butylbenzene | 5.00 | 4.46 | 4.98 | 89.2 | 99.6 | 73.0-125 | | | 11.0 | 20 |
| sec-Butylbenzene | 5.00 | 5.40 | 5.97 | 108 | 119 | 75.0-125 | | | 10.0 | 20 |
| tert-Butylbenzene | 5.00 | 4.95 | 5.69 | 99.0 | 114 | 76.0-124 | | | 13.9 | 20 |
| Carbon tetrachloride | 5.00 | 4.28 | 4.71 | 85.6 | 94.2 | 68.0-126 | | | 9.57 | 20 |
| Chlorobenzene | 5.00 | 4.72 | 5.45 | 94.4 | 109 | 80.0-121 | | | 14.4 | 20 |
| Chlorodibromomethane | 5.00 | 4.19 | 4.92 | 83.8 | 98.4 | 77.0-125 | | | 16.0 | 20 |
| Chloroethane | 5.00 | 5.33 | 6.00 | 107 | 120 | 47.0-150 | | | 11.8 | 20 |
| Chloroform | 5.00 | 4.77 | 5.56 | 95.4 | 111 | 73.0-120 | J | | 15.3 | 20 |
| Chloromethane | 5.00 | 5.04 | 5.89 | 101 | 118 | 41.0-142 | | | 15.6 | 20 |
| 2-Chlorotoluene | 5.00 | 5.32 | 6.15 | 106 | 123 | 76.0-123 | | | 14.5 | 20 |
| 4-Chlorotoluene | 5.00 | 5.30 | 6.15 | 106 | 123 | 75.0-122 | | J4 | 14.8 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 3.86 | 4.33 | 77.2 | 86.6 | 58.0-134 | J | J | 11.5 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.64 | 5.54 | 92.8 | 111 | 80.0-122 | | | 17.7 | 20 |
| Dibromomethane | 5.00 | 4.50 | 5.18 | 90.0 | 104 | 80.0-120 | | | 14.0 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 5.14 | 5.80 | 103 | 116 | 79.0-121 | | | 12.1 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 5.18 | 5.84 | 104 | 117 | 79.0-120 | | | 12.0 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 5.12 | 5.90 | 102 | 118 | 79.0-120 | | | 14.2 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.41 | 5.77 | 108 | 115 | 51.0-149 | | | 6.44 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.00 | 5.77 | 100 | 115 | 70.0-126 | | | 14.3 | 20 |
| 1,2-Dichloroethane | 5.00 | 5.16 | 5.80 | 103 | 116 | 70.0-128 | | | 11.7 | 20 |
| 1,1-Dichloroethene | 5.00 | 4.42 | 4.83 | 88.4 | 96.6 | 71.0-124 | | | 8.86 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.42 | 5.18 | 88.4 | 104 | 73.0-120 | | | 15.8 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 4.57 | 5.30 | 91.4 | 106 | 73.0-120 | | | 14.8 | 20 |
| 1,2-Dichloropropane | 5.00 | 4.70 | 5.42 | 94.0 | 108 | 77.0-125 | | | 14.2 | 20 |
| 1,1-Dichloropropene | 5.00 | 4.75 | 5.27 | 95.0 | 105 | 74.0-126 | | | 10.4 | 20 |
| 1,3-Dichloropropane | 5.00 | 5.03 | 5.96 | 101 | 119 | 80.0-120 | | | 16.9 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.34 | 5.06 | 86.8 | 101 | 80.0-123 | | | 15.3 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 4.42 | 5.25 | 88.4 | 105 | 78.0-124 | | | 17.2 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.01 | 4.47 | 80.2 | 89.4 | 58.0-130 | | | 10.8 | 20 |
| Di-isopropyl ether | 5.00 | 4.83 | 5.66 | 96.6 | 113 | 58.0-138 | | | 15.8 | 20 |
| Ethylbenzene | 5.00 | 4.79 | 5.44 | 95.8 | 109 | 79.0-123 | | | 12.7 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 5.13 | 5.57 | 103 | 111 | 54.0-138 | | | 8.22 | 20 |
| Isopropylbenzene | 5.00 | 4.74 | 5.37 | 94.8 | 107 | 76.0-127 | | | 12.5 | 20 |
| p-Isopropyltoluene | 5.00 | 4.90 | 5.42 | 98.0 | 108 | 76.0-125 | | | 10.1 | 20 |
| 2-Butanone (MEK) | 25.0 | 27.5 | 31.8 | 110 | 127 | 44.0-160 | | | 14.5 | 20 |
| Methylene Chloride | 5.00 | 4.76 | 5.46 | 95.2 | 109 | 67.0-120 | J | | 13.7 | 20 |

Cp
Tc
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Cn
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## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078198-1 06/03/24 07:29 • (LCSD) R4078198-2 06/03/24 07:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 24.5 | 28.6 | 98.0 | 114 | 68.0-142 | | | 15.4 | 20 |
| Methyl tert-butyl ether | 5.00 | 4.49 | 5.30 | 89.8 | 106 | 68.0-125 | | | 16.5 | 20 |
| Naphthalene | 5.00 | 3.92 | 4.24 | 78.4 | 84.8 | 54.0-135 | J | J | 7.84 | 20 |
| n-Propylbenzene | 5.00 | 5.42 | 6.01 | 108 | 120 | 77.0-124 | | | 10.3 | 20 |
| Styrene | 5.00 | 4.46 | 5.27 | 89.2 | 105 | 73.0-130 | | | 16.6 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.57 | 4.98 | 91.4 | 99.6 | 75.0-125 | | | 8.59 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 5.00 | 5.85 | 100 | 117 | 65.0-130 | | | 15.7 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 4.97 | 5.07 | 99.4 | 101 | 69.0-132 | | | 1.99 | 20 |
| Tetrachloroethene | 5.00 | 4.99 | 5.61 | 99.8 | 112 | 72.0-132 | | | 11.7 | 20 |
| Toluene | 5.00 | 4.96 | 5.69 | 99.2 | 114 | 79.0-120 | | | 13.7 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 4.43 | 4.75 | 88.6 | 95.0 | 50.0-138 | | | 6.97 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.67 | 5.02 | 93.4 | 100 | 57.0-137 | | | 7.22 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 4.57 | 5.13 | 91.4 | 103 | 73.0-124 | | | 11.5 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.95 | 5.71 | 99.0 | 114 | 80.0-120 | | | 14.3 | 20 |
| Trichloroethene | 5.00 | 4.64 | 5.14 | 92.8 | 103 | 78.0-124 | | | 10.2 | 20 |
| Trichlorofluoromethane | 5.00 | 4.72 | 4.91 | 94.4 | 98.2 | 59.0-147 | J | J | 3.95 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 5.33 | 5.81 | 107 | 116 | 73.0-130 | | | 8.62 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 5.17 | 5.82 | 103 | 116 | 76.0-121 | | | 11.8 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 5.14 | 5.80 | 103 | 116 | 77.0-120 | | | 12.1 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 5.29 | 5.82 | 106 | 116 | 76.0-122 | | | 9.54 | 20 |
| Vinyl chloride | 5.00 | 5.32 | 5.70 | 106 | 114 | 67.0-131 | | | 6.90 | 20 |
| Xylenes, Total | 15.0 | 14.2 | 16.2 | 94.7 | 108 | 79.0-123 | | | 13.2 | 20 |
| *(S) Toluene-d8* | | | | *107* | *107* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *99.4* | *102* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *103* | *104* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4078575-3 06/06/24 22:53

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

## Method Blank (MB)

(MB) R4078575-3 06/06/24 22:53

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | 0.329 | J | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078575-1 06/06/24 19:18 • (LCSD) R4078575-2 06/06/24 19:41

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 15.6 | 19.2 | 62.4 | 76.8 | 19.0-160 | J | J | 20.7 | 27 |
| Acrolein | 25.0 | 12.9 | 12.6 | 51.6 | 50.4 | 10.0-160 | J | J | 2.35 | 26 |
| Acrylonitrile | 25.0 | 21.7 | 26.0 | 86.8 | 104 | 55.0-149 | | | 18.0 | 20 |
| Benzene | 5.00 | 4.25 | 5.27 | 85.0 | 105 | 70.0-123 | | J3 | 21.4 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078575-1 06/06/24 19:18 • (LCSD) R4078575-2 06/06/24 19:41

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 4.44 | 5.30 | 88.8 | 106 | 73.0-121 | | | 17.7 | 20 |
| Bromodichloromethane | 5.00 | 4.32 | 5.15 | 86.4 | 103 | 75.0-120 | | | 17.5 | 20 |
| Bromoform | 5.00 | 3.39 | 4.33 | 67.8 | 86.6 | 68.0-132 | J4 | J3 | 24.4 | 20 |
| Bromomethane | 5.00 | 2.53 | 3.68 | 50.6 | 73.6 | 10.0-160 | J | J J3 | 37.0 | 25 |
| n-Butylbenzene | 5.00 | 4.00 | 4.31 | 80.0 | 86.2 | 73.0-125 | | | 7.46 | 20 |
| sec-Butylbenzene | 5.00 | 4.47 | 5.52 | 89.4 | 110 | 75.0-125 | | J3 | 21.0 | 20 |
| tert-Butylbenzene | 5.00 | 4.41 | 5.39 | 88.2 | 108 | 76.0-124 | | | 20.0 | 20 |
| Carbon tetrachloride | 5.00 | 4.48 | 5.54 | 89.6 | 111 | 68.0-126 | | J3 | 21.2 | 20 |
| Chlorobenzene | 5.00 | 4.25 | 5.19 | 85.0 | 104 | 80.0-121 | | | 19.9 | 20 |
| Chlorodibromomethane | 5.00 | 4.04 | 4.94 | 80.8 | 98.8 | 77.0-125 | | | 20.0 | 20 |
| Chloroethane | 5.00 | 3.12 | 4.80 | 62.4 | 96.0 | 47.0-150 | J | J J3 | 42.4 | 20 |
| Chloroform | 5.00 | 4.43 | 5.35 | 88.6 | 107 | 73.0-120 | J | | 18.8 | 20 |
| Chloromethane | 5.00 | 4.84 | 5.81 | 96.8 | 116 | 41.0-142 | | | 18.2 | 20 |
| 2-Chlorotoluene | 5.00 | 4.34 | 5.21 | 86.8 | 104 | 76.0-123 | | | 18.2 | 20 |
| 4-Chlorotoluene | 5.00 | 4.49 | 5.19 | 89.8 | 104 | 75.0-122 | | | 14.5 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.30 | 4.58 | 86.0 | 91.6 | 58.0-134 | J | J | 6.31 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.42 | 5.33 | 88.4 | 107 | 80.0-122 | | | 18.7 | 20 |
| Dibromomethane | 5.00 | 4.61 | 5.30 | 92.2 | 106 | 80.0-120 | | | 13.9 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 4.18 | 5.11 | 83.6 | 102 | 79.0-121 | | | 20.0 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.49 | 5.06 | 89.8 | 101 | 79.0-120 | | | 11.9 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 4.55 | 5.29 | 91.0 | 106 | 79.0-120 | | | 15.0 | 20 |
| Dichlorodifluoromethane | 5.00 | 4.39 | 5.50 | 87.8 | 110 | 51.0-149 | J | J3 | 22.4 | 20 |
| 1,1-Dichloroethane | 5.00 | 4.60 | 5.35 | 92.0 | 107 | 70.0-126 | | | 15.1 | 20 |
| 1,2-Dichloroethane | 5.00 | 4.61 | 5.59 | 92.2 | 112 | 70.0-128 | | | 19.2 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.26 | 5.93 | 105 | 119 | 71.0-124 | | | 12.0 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.25 | 5.33 | 85.0 | 107 | 73.0-120 | | J3 | 22.5 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 4.35 | 5.33 | 87.0 | 107 | 73.0-120 | | J3 | 20.2 | 20 |
| 1,2-Dichloropropane | 5.00 | 4.50 | 5.34 | 90.0 | 107 | 77.0-125 | | | 17.1 | 20 |
| 1,1-Dichloropropene | 5.00 | 4.52 | 5.35 | 90.4 | 107 | 74.0-126 | | | 16.8 | 20 |
| 1,3-Dichloropropane | 5.00 | 4.46 | 5.36 | 89.2 | 107 | 80.0-120 | | | 18.3 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.05 | 4.82 | 81.0 | 96.4 | 80.0-123 | | | 17.4 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 3.81 | 4.65 | 76.2 | 93.0 | 78.0-124 | J4 | | 19.9 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.11 | 5.59 | 82.2 | 112 | 58.0-130 | | J3 | 30.5 | 20 |
| Di-isopropyl ether | 5.00 | 4.24 | 5.23 | 84.8 | 105 | 58.0-138 | | J3 | 20.9 | 20 |
| Ethylbenzene | 5.00 | 4.18 | 5.03 | 83.6 | 101 | 79.0-123 | | | 18.5 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 6.65 | 7.00 | 133 | 140 | 54.0-138 | | J4 | 5.13 | 20 |
| Isopropylbenzene | 5.00 | 3.90 | 4.95 | 78.0 | 99.0 | 76.0-127 | | J3 | 23.7 | 20 |
| p-Isopropyltoluene | 5.00 | 4.10 | 5.10 | 82.0 | 102 | 76.0-125 | | J3 | 21.7 | 20 |
| 2-Butanone (MEK) | 25.0 | 20.4 | 23.6 | 81.6 | 94.4 | 44.0-160 | | | 14.5 | 20 |
| Methylene Chloride | 5.00 | 4.68 | 5.50 | 93.6 | 110 | 67.0-120 | J | | 16.1 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078575-1 06/06/24 19:18 • (LCSD) R4078575-2 06/06/24 19:41

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 21.6 | 25.9 | 86.4 | 104 | 68.0-142 | | | 18.1 | 20 |
| Methyl tert-butyl ether | 5.00 | 4.38 | 5.10 | 87.6 | 102 | 68.0-125 | | | 15.2 | 20 |
| Naphthalene | 5.00 | 3.26 | 4.00 | 65.2 | 80.0 | 54.0-135 | J | J J3 | 20.4 | 20 |
| n-Propylbenzene | 5.00 | 4.35 | 5.11 | 87.0 | 102 | 77.0-124 | | | 16.1 | 20 |
| Styrene | 5.00 | 3.90 | 4.68 | 78.0 | 93.6 | 73.0-130 | | | 18.2 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.00 | 5.08 | 80.0 | 102 | 75.0-125 | | J3 | 23.8 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.87 | 5.30 | 97.4 | 106 | 65.0-130 | | | 8.46 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 4.90 | 6.30 | 98.0 | 126 | 69.0-132 | | J3 | 25.0 | 20 |
| Tetrachloroethene | 5.00 | 5.31 | 6.45 | 106 | 129 | 72.0-132 | | | 19.4 | 20 |
| Toluene | 5.00 | 4.13 | 5.18 | 82.6 | 104 | 79.0-120 | | J3 | 22.6 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 3.55 | 4.11 | 71.0 | 82.2 | 50.0-138 | | | 14.6 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 3.25 | 3.98 | 65.0 | 79.6 | 57.0-137 | | J3 | 20.2 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 4.64 | 5.75 | 92.8 | 115 | 73.0-124 | | J3 | 21.4 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.32 | 5.59 | 86.4 | 112 | 80.0-120 | | J3 | 25.6 | 20 |
| Trichloroethene | 5.00 | 4.64 | 5.52 | 92.8 | 110 | 78.0-124 | | | 17.3 | 20 |
| Trichlorofluoromethane | 5.00 | 4.63 | 5.88 | 92.6 | 118 | 59.0-147 | J | J3 | 23.8 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 5.24 | 5.76 | 105 | 115 | 73.0-130 | | | 9.45 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.20 | 5.07 | 84.0 | 101 | 76.0-121 | | | 18.8 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.14 | 4.91 | 82.8 | 98.2 | 77.0-120 | | | 17.0 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.31 | 5.26 | 86.2 | 105 | 76.0-122 | | | 19.9 | 20 |
| Vinyl chloride | 5.00 | 4.54 | 5.60 | 90.8 | 112 | 67.0-131 | | J3 | 20.9 | 20 |
| Xylenes, Total | 15.0 | 12.1 | 14.9 | 80.7 | 99.3 | 79.0-123 | | J3 | 20.7 | 20 |
| *(S) Toluene-d8* | | | | *102* | *105* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.9* | *99.5* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *105* | *106* | *70.0-130* | | | | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4075530-1 05/30/24 08:04

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *73.0* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075530-2 05/30/24 08:24 • (LCSD) R4075530-3 05/30/24 08:45

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 868 | 916 | 116 | 122 | 50.0-150 | | | 5.38 | 20 |
| C22-C32 Hydrocarbons | 750 | 804 | 808 | 107 | 108 | 50.0-150 | | | 0.496 | 20 |
| *(S) o-Terphenyl* | | | | *74.0* | *75.0* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4075758-1 05/31/24 07:50

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | 34.9 | J | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *58.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075758-2 05/31/24 08:10 • (LCSD) R4075758-3 05/31/24 08:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 829 | 966 | 111 | 129 | 50.0-150 | | | 15.3 | 20 |
| C22-C32 Hydrocarbons | 750 | 734 | 870 | 97.9 | 116 | 50.0-150 | | | 17.0 | 20 |
| *(S) o-Terphenyl* | | | | *73.0* | *77.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4076519-1 06/02/24 10:37

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *59.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076519-2 06/02/24 10:58 • (LCSD) R4076519-3 06/02/24 11:19

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 793 | 803 | 106 | 107 | 50.0-150 | | | 1.25 | 20 |
| C22-C32 Hydrocarbons | 750 | 722 | 733 | 96.3 | 97.7 | 50.0-150 | | | 1.51 | 20 |
| *(S) o-Terphenyl* | | | | *73.5* | *73.5* | *52.0-156* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # ABI

Lab Project # **ROUXOCA-CA**

Collected by (print): Connor Platt

Site/Facility ID # ~

P.O. # –

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Quote # –

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740836

Table # H223

Acctnum: **ROUXOCA**
Template: **T253289**
Prelogin: **P1076384**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAERLVI 40mlAmb-HCl-BT | GROCA 40mlAmb HCl | M6010CAM17 250mlHDPE-HNO3 | M6010DCAM17 (FF) 250mlHDPE-HNO3 | V8260 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-2-2 | G | GW | 14.05 | 5/24/24 | 0800 | 9 | X | X | X | X | X | | -01 |
| GW-4-2 | G | GW | 8.10 | " | 1025 | 9 | X | X | X | X | X | | -02 |
| GW-4-1 | G | GW | 9.15 | " | 1105 | 9 | X | X | X | X | X | | -03 |
| Dup-2 | G | GW | – | " | 1200 | 9 | X | X | X | X | X | | -04 |
| P-01 | G | GW | 9.45 | " | 1205 | 9 | X | X | X | X | X | | -05 |
| P-11 | G | GW | 4.75 | " | 1305 | 9 | X | X | X | X | X | | -06 |
| P-02 | G | GW | 6.45 | " | 1410 | 9 | X | X | X | X | X | | -07 |
| P-12 | G | GW | | " | 1505 | 9 | X | X | X | X | X | | -08 |
| | | GW | | | | 9 | X | X | X | X | X | | |
| | | GW | | | | 9 | X | X | X | X | X | | |

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

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 5/24/24 | 1609 | pAa | | |
| Relinquished by : (Signature) pAa | Date: 5/24/24 | Time: 1630 | Received by: (Signature) SWA Corp | Temp: EOA °C 1.8+0.1=1.9 Bottles Received: 82 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Easton Orgon | Date: 5/25/24 Time: 1200 | Hold: Condition: NCF / OK |

L1740636

| Tracking Numbers | Temperature |
|---|---|
| SW | 2.3+0.1=2.4 EOA6 |
| SW | 1.8+0.1=1.9 EOA6 |
| SW | 1.3+0.1=1.4 EOA6 |
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| | |
| | |

Emtan Orgon
Name

5/25/24
Date

## 5/25 NCF-ROUXOCA L1740636

R5

**Time estimate:** oh **Time spent:** oh

**Members**

Nicolle Faulk (responsible) Jennifer Gambill

Due on *31 May 2024 5:00 PM* for target *Done*

- [ ] Parameter(s) past holding time
- [ ] Temperature not in range
- [ ] Improper container type
- [ ] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [x] Broken container
- [x] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

**Comments**

*Nicolle Faulk* *25 May 2024 4:38 PM*

1 broken HCL vial for ID: DUP-02.

*Jennifer Gambill* *28 May 2024 12:20 PM*

Please continue with remaining vials.

*Matthew Shacklock* *28 May 2024 1:33 PM*

Done

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1740641 |
| Samples Received: | 05/25/2024 |
| Project Number: | AB&1 |
| Description: | AB&I Redevelopment |

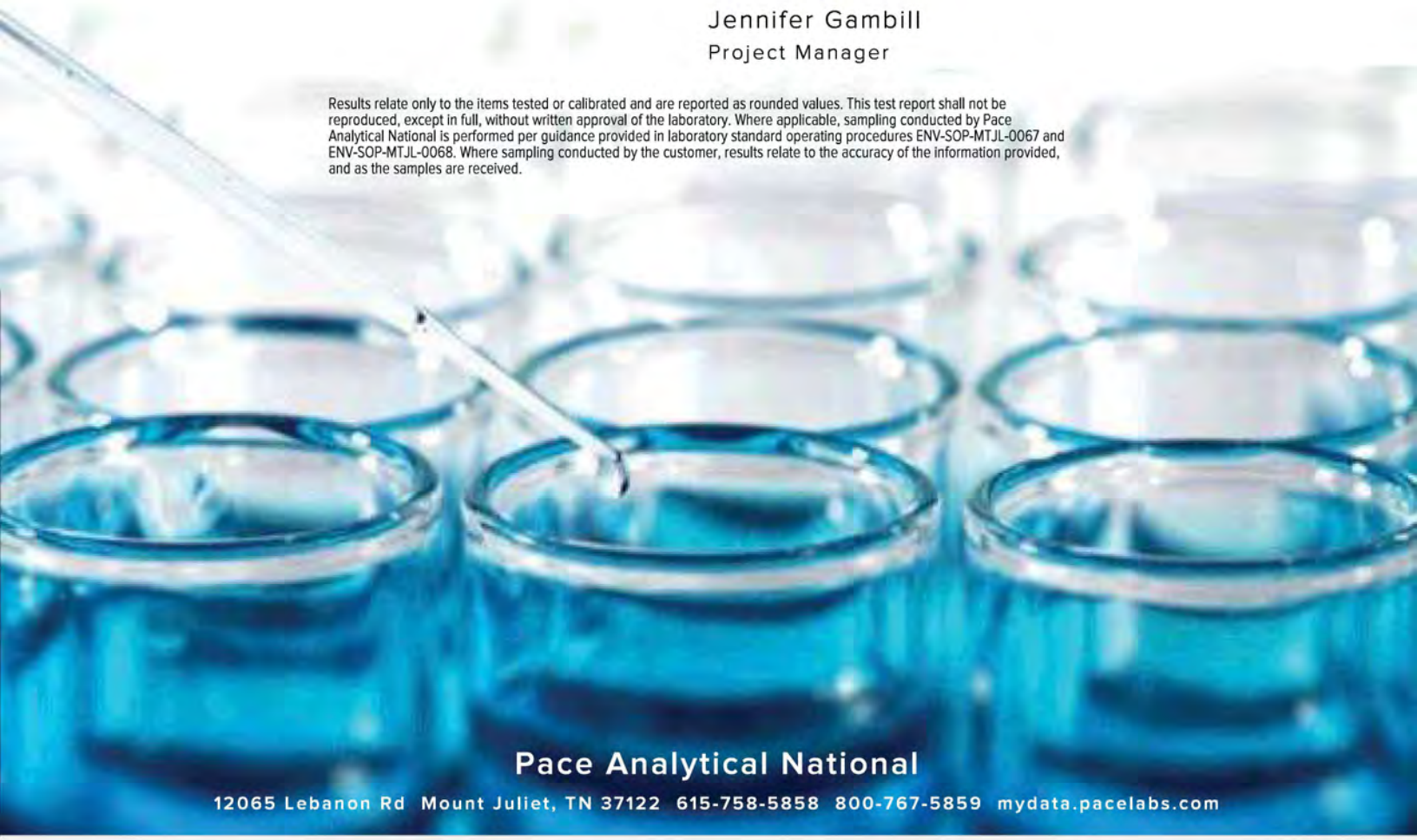
Report To:

Joshua Osborne
555 12th Street
Suite 250
Oakland, CA 94607

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## GW-3-1 L1740641-01 GW

Collected by: D. Bailey | Collected date/time: 05/24/24 08:32 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/29/24 22:49 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/30/24 00:01 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296311 | 1 | 06/06/24 18:13 | 06/07/24 02:59 | JTM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/26/24 18:37 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/21/24 17:42 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296903 | 1 | 06/02/24 07:56 | 06/02/24 07:56 | DSS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 13:51 | 06/03/24 13:51 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 14:28 | MAA | Mt. Juliet, TN |

## GW-3-2 L1740641-02 GW

Collected by: D. Bailey | Collected date/time: 05/24/24 10:12 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/30/24 00:03 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 22:52 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2328408 | 1 | 07/23/24 14:02 | 07/23/24 19:16 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 15:52 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 17:46 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/26/24 18:40 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297105 | 1 | 06/02/24 15:19 | 06/02/24 15:19 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 14:14 | 06/03/24 14:14 | DYW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300160 | 10 | 06/07/24 06:07 | 06/07/24 06:07 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 14:48 | MAA | Mt. Juliet, TN |

## GW-6-1 L1740641-03 GW

Collected by: D. Bailey | Collected date/time: 05/24/24 13:12 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293415 | 1 | 05/29/24 12:55 | 05/30/24 00:06 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2293420 | 1 | 05/29/24 13:03 | 05/29/24 22:54 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2328408 | 1 | 07/23/24 14:02 | 07/23/24 19:37 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 15:55 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/21/24 17:49 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298769 | 1 | 06/05/24 10:19 | 06/26/24 18:43 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297105 | 1 | 06/02/24 15:42 | 06/02/24 15:42 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 14:36 | 06/03/24 14:36 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 15:12 | MAA | Mt. Juliet, TN |

## GW-6-2 L1740641-04 GW

Collected by: D. Bailey | Collected date/time: 05/24/24 12:02 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293417 | 1 | 05/29/24 13:54 | 05/30/24 22:29 | NDL | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2294965 | 1 | 05/30/24 09:33 | 05/30/24 19:56 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296311 | 1 | 06/06/24 18:13 | 06/07/24 03:22 | JTM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2296381 | 1 | 06/05/24 11:26 | 06/26/24 18:46 | JPD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298963 | 1 | 06/06/24 04:18 | 06/26/24 18:13 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297105 | 1 | 06/02/24 16:05 | 06/02/24 16:05 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297219 | 1 | 06/03/24 14:59 | 06/03/24 14:59 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 15:32 | MAA | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/29/24 12:31
Level II Report - Version 2: 08/15/24 20:08

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Mercury by Method 7470A

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-6-2 | L1740641-04 | Mercury | 0.896 | | 0.100 | 0.200 | 1 | 05/30/2024 22:29 | WG2293417 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-3-1 | L1740641-01 | Barium,Dissolved | 95.9 | | 0.736 | 5.00 | 1 | 06/07/2024 02:59 | WG2296311 |
| GW-3-1 | L1740641-01 | Cobalt,Dissolved | 2.81 | J | 0.840 | 10.0 | 1 | 06/07/2024 02:59 | WG2296311 |
| GW-3-1 | L1740641-01 | Molybdenum,Dissolved | 21.2 | | 1.16 | 5.00 | 1 | 06/07/2024 02:59 | WG2296311 |
| GW-3-1 | L1740641-01 | Vanadium,Dissolved | 10.3 | J | 4.99 | 20.0 | 1 | 06/07/2024 02:59 | WG2296311 |
| GW-3-2 | L1740641-02 | Barium,Dissolved | 122 | | 0.736 | 5.00 | 1 | 07/23/2024 19:16 | WG2328408 |
| GW-3-2 | L1740641-02 | Cobalt,Dissolved | 3.84 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:16 | WG2328408 |
| GW-3-2 | L1740641-02 | Molybdenum,Dissolved | 45.7 | | 1.16 | 5.00 | 1 | 07/23/2024 19:16 | WG2328408 |
| GW-6-1 | L1740641-03 | Barium,Dissolved | 117 | | 0.736 | 5.00 | 1 | 07/23/2024 19:37 | WG2328408 |
| GW-6-1 | L1740641-03 | Cobalt,Dissolved | 2.42 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:37 | WG2328408 |
| GW-6-1 | L1740641-03 | Molybdenum,Dissolved | 34.5 | | 1.16 | 5.00 | 1 | 07/23/2024 19:37 | WG2328408 |
| GW-6-2 | L1740641-04 | Barium,Dissolved | 72.3 | | 0.736 | 5.00 | 1 | 06/07/2024 03:22 | WG2296311 |
| GW-6-2 | L1740641-04 | Cobalt,Dissolved | 6.26 | J | 0.840 | 10.0 | 1 | 06/07/2024 03:22 | WG2296311 |
| GW-6-2 | L1740641-04 | Molybdenum,Dissolved | 40.3 | | 1.16 | 5.00 | 1 | 06/07/2024 03:22 | WG2296311 |
| GW-6-2 | L1740641-04 | Vanadium,Dissolved | 8.58 | J | 4.99 | 20.0 | 1 | 06/07/2024 03:22 | WG2296311 |

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-3-1 | L1740641-01 | Arsenic | 13.9 | | 0.180 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Arsenic,Dissolved | 3.52 | | 0.180 | 2.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| GW-3-1 | L1740641-01 | Barium | 1050 | | 0.381 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Beryllium | 0.839 | J | 0.190 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Cadmium | 0.647 | J | 0.150 | 1.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Chromium | 45.6 | | 1.24 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Copper | 47.2 | | 1.51 | 5.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Cobalt | 20.8 | | 0.0596 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Lead | 88.4 | | 0.849 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Molybdenum | 12.7 | | 0.348 | 5.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Nickel | 69.4 | | 0.816 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Nickel,Dissolved | 11.1 | | 0.816 | 2.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| GW-3-1 | L1740641-01 | Selenium | 1.40 | J | 0.300 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Silver | 0.128 | J | 0.0700 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Vanadium | 51.5 | | 0.664 | 5.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Zinc | 659 | | 3.02 | 25.0 | 1 | 06/21/2024 17:42 | WG2298769 |
| GW-3-1 | L1740641-01 | Zinc,Dissolved | 4.39 | J | 3.02 | 25.0 | 1 | 06/26/2024 18:37 | WG2296381 |
| GW-3-2 | L1740641-02 | Arsenic | 3.13 | | 0.180 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Arsenic,Dissolved | 0.557 | J | 0.180 | 2.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| GW-3-2 | L1740641-02 | Barium | 237 | | 0.381 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Beryllium | 0.327 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Cadmium | 0.405 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Cadmium,Dissolved | 0.237 | J | 0.150 | 1.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| GW-3-2 | L1740641-02 | Chromium | 31.4 | | 1.24 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Copper | 22.1 | | 1.51 | 5.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Copper,Dissolved | 1.85 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| GW-3-2 | L1740641-02 | Cobalt | 9.85 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Lead | 7.23 | | 0.849 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Molybdenum | 60.1 | | 0.348 | 5.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Nickel | 50.3 | | 0.816 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Nickel,Dissolved | 10.0 | | 0.816 | 2.00 | 1 | 06/21/2024 15:52 | WG2296381 |

# DETECTION SUMMARY

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-3-2 | L1740641-02 | Selenium | 1.27 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Silver | 0.210 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Vanadium | 30.1 | | 0.664 | 5.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Zinc | 170 | | 3.02 | 25.0 | 1 | 06/26/2024 18:40 | WG2298769 |
| GW-3-2 | L1740641-02 | Zinc,Dissolved | 15.4 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:52 | WG2296381 |
| GW-6-1 | L1740641-03 | Arsenic | 9.65 | | 0.180 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Arsenic,Dissolved | 13.7 | | 0.180 | 2.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| GW-6-1 | L1740641-03 | Barium | 218 | | 0.381 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Beryllium | 0.274 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Chromium | 18.8 | | 1.24 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Copper | 23.8 | | 1.51 | 5.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Copper,Dissolved | 2.13 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| GW-6-1 | L1740641-03 | Cobalt | 7.96 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Lead | 5.35 | | 0.849 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Molybdenum | 17.9 | | 0.348 | 5.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Nickel | 41.1 | | 0.816 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Nickel,Dissolved | 12.8 | | 0.816 | 2.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| GW-6-1 | L1740641-03 | Selenium | 0.436 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Selenium,Dissolved | 0.629 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| GW-6-1 | L1740641-03 | Vanadium | 27.2 | | 0.664 | 5.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-1 | L1740641-03 | Zinc | 65.6 | | 3.02 | 25.0 | 1 | 06/26/2024 18:43 | WG2298769 |
| GW-6-2 | L1740641-04 | Arsenic | 1.59 | J | 0.180 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Arsenic,Dissolved | 0.389 | J | 0.180 | 2.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| GW-6-2 | L1740641-04 | Barium | 259 | | 0.381 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Beryllium | 1.27 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Cadmium | 0.772 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Cadmium,Dissolved | 0.184 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| GW-6-2 | L1740641-04 | Chromium | 43.5 | | 1.24 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Copper | 36.4 | | 1.51 | 5.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Cobalt | 33.6 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Lead | 7.53 | | 0.849 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Molybdenum | 3.82 | J | 0.348 | 5.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Nickel | 131 | | 0.816 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Nickel,Dissolved | 28.1 | | 0.816 | 2.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| GW-6-2 | L1740641-04 | Selenium | 1.28 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Silver | 0.0892 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Vanadium | 58.0 | | 0.664 | 5.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Zinc | 118 | | 3.02 | 25.0 | 1 | 06/26/2024 18:13 | WG2298963 |
| GW-6-2 | L1740641-04 | Zinc,Dissolved | 3.52 | J | 3.02 | 25.0 | 1 | 06/26/2024 18:46 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-3-1 | L1740641-01 | TPHG C5 - C12 | 85.2 | J | 30.4 | 100 | 1 | 06/02/2024 07:56 | WG2296903 |
| GW-3-2 | L1740641-02 | TPHG C5 - C12 | 200 | B | 30.4 | 100 | 1 | 06/02/2024 15:19 | WG2297105 |
| GW-6-1 | L1740641-03 | TPHG C5 - C12 | 928 | | 30.4 | 100 | 1 | 06/02/2024 15:42 | WG2297105 |
| GW-6-2 | L1740641-04 | TPHG C5 - C12 | 62.0 | B J | 30.4 | 100 | 1 | 06/02/2024 16:05 | WG2297105 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-3-1 | L1740641-01 | Acetone | 16.7 | J | 11.3 | 50.0 | 1 | 06/03/2024 13:51 | WG2297219 |
| GW-3-1 | L1740641-01 | 1,1-Dichloroethane | 2.91 | | 0.100 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| GW-3-1 | L1740641-01 | 1,1-Dichloroethene | 108 | | 0.188 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| GW-3-1 | L1740641-01 | cis-1,2-Dichloroethene | 1.35 | | 0.126 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| GW-3-1 | L1740641-01 | 2-Butanone (MEK) | 3.50 | J | 1.19 | 10.0 | 1 | 06/03/2024 13:51 | WG2297219 |
| GW-3-1 | L1740641-01 | Vinyl chloride | 6.66 | | 0.234 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| GW-3-2 | L1740641-02 | 1,1-Dichloroethane | 4.75 | | 0.100 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| GW-3-2 | L1740641-02 | 1,1-Dichloroethene | 315 | | 1.88 | 10.0 | 10 | 06/07/2024 06:07 | WG2300160 |
| GW-3-2 | L1740641-02 | cis-1,2-Dichloroethene | 2.39 | | 0.126 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| GW-3-2 | L1740641-02 | Vinyl chloride | 7.71 | | 0.234 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| GW-6-1 | L1740641-03 | Benzene | 13.0 | | 0.0941 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | sec-Butylbenzene | 4.26 | | 0.125 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | tert-Butylbenzene | 0.541 | J | 0.127 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | Ethylbenzene | 5.33 | | 0.137 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | Isopropylbenzene | 5.40 | | 0.105 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | p-Isopropyltoluene | 2.55 | | 0.120 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | Naphthalene | 5.84 | | 1.00 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | n-Propylbenzene | 6.91 | | 0.0993 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | Toluene | 1.44 | | 0.278 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | 1,2,3-Trimethylbenzene | 6.70 | | 0.104 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-1 | L1740641-03 | Xylenes, Total | 1.12 | J | 0.174 | 3.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| GW-6-2 | L1740641-04 | Trichloroethene | 1.99 | | 0.190 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GW-3-1 | L1740641-01 | C12-C22 Hydrocarbons | 393 | | 33.0 | 100 | 1 | 05/31/2024 14:28 | WG2295250 |
| GW-3-1 | L1740641-01 | C22-C32 Hydrocarbons | 288 | | 33.0 | 100 | 1 | 05/31/2024 14:28 | WG2295250 |
| GW-3-1 | L1740641-01 | C32-C40 Hydrocarbons | 102 | | 33.0 | 100 | 1 | 05/31/2024 14:28 | WG2295250 |
| GW-3-2 | L1740641-02 | C12-C22 Hydrocarbons | 155 | B | 33.0 | 100 | 1 | 05/31/2024 14:48 | WG2295250 |
| GW-3-2 | L1740641-02 | C22-C32 Hydrocarbons | 172 | | 33.0 | 100 | 1 | 05/31/2024 14:48 | WG2295250 |
| GW-3-2 | L1740641-02 | C32-C40 Hydrocarbons | 47.4 | J | 33.0 | 100 | 1 | 05/31/2024 14:48 | WG2295250 |
| GW-6-1 | L1740641-03 | C12-C22 Hydrocarbons | 812 | | 33.0 | 100 | 1 | 05/31/2024 15:12 | WG2295250 |
| GW-6-1 | L1740641-03 | C22-C32 Hydrocarbons | 97.4 | J | 33.0 | 100 | 1 | 05/31/2024 15:12 | WG2295250 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:49 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/30/2024 00:01 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 95.9 | | 0.736 | 5.00 | 1 | 06/07/2024 02:59 | WG2296311 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/07/2024 02:59 | WG2296311 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/07/2024 02:59 | WG2296311 |
| Cobalt,Dissolved | 2.81 | J | 0.840 | 10.0 | 1 | 06/07/2024 02:59 | WG2296311 |
| Molybdenum,Dissolved | 21.2 | | 1.16 | 5.00 | 1 | 06/07/2024 02:59 | WG2296311 |
| Vanadium,Dissolved | 10.3 | J | 4.99 | 20.0 | 1 | 06/07/2024 02:59 | WG2296311 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Arsenic | 13.9 | | 0.180 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Arsenic,Dissolved | 3.52 | | 0.180 | 2.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Barium | 1050 | | 0.381 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Beryllium | 0.839 | J | 0.190 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Cadmium | 0.647 | J | 0.150 | 1.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Chromium | 45.6 | | 1.24 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Copper | 47.2 | | 1.51 | 5.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Copper,Dissolved | U | | 1.51 | 5.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Cobalt | 20.8 | | 0.0596 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Lead | 88.4 | | 0.849 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Molybdenum | 12.7 | | 0.348 | 5.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Nickel | 69.4 | | 0.816 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Nickel,Dissolved | 11.1 | | 0.816 | 2.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Selenium | 1.40 | J | 0.300 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Silver | 0.128 | J | 0.0700 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:37 | WG2296381 |
| Vanadium | 51.5 | | 0.664 | 5.00 | 1 | 06/21/2024 17:42 | WG2298769 |
| Zinc | 659 | | 3.02 | 25.0 | 1 | 06/21/2024 17:42 | WG2298769 |
| Zinc,Dissolved | 4.39 | J | 3.02 | 25.0 | 1 | 06/26/2024 18:37 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 85.2 | J | 30.4 | 100 | 1 | 06/02/2024 07:56 | WG2296903 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *78.0-120* | | *06/02/2024 07:56* | WG2296903 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 16.7 | J | 11.3 | 50.0 | 1 | 06/03/2024 13:51 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 13:51 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 13:51 | WG2297219 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 13:51 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,1-Dichloroethane | 2.91 | | 0.100 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,1-Dichloroethene | 108 | | 0.188 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| cis-1,2-Dichloroethene | 1.35 | | 0.126 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 2-Butanone (MEK) | 3.50 | J | 1.19 | 10.0 | 1 | 06/03/2024 13:51 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 13:51 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |

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

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Vinyl chloride | 6.66 | | 0.234 | 1.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 13:51 | WG2297219 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *06/03/2024 13:51* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *77.0-126* | | *06/03/2024 13:51* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *06/03/2024 13:51* | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 393 | | 33.0 | 100 | 1 | 05/31/2024 14:28 | WG2295250 |
| C22-C32 Hydrocarbons | 288 | | 33.0 | 100 | 1 | 05/31/2024 14:28 | WG2295250 |
| C32-C40 Hydrocarbons | 102 | | 33.0 | 100 | 1 | 05/31/2024 14:28 | WG2295250 |
| *(S) o-Terphenyl* | *71.6* | | | *52.0-156* | | *05/31/2024 14:28* | WG2295250 |

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

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/30/2024 00:03 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:52 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 122 | | 0.736 | 5.00 | 1 | 07/23/2024 19:16 | WG2328408 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 07/23/2024 19:16 | WG2328408 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 07/23/2024 19:16 | WG2328408 |
| Cobalt,Dissolved | 3.84 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:16 | WG2328408 |
| Molybdenum,Dissolved | 45.7 | | 1.16 | 5.00 | 1 | 07/23/2024 19:16 | WG2328408 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 07/23/2024 19:16 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| Arsenic | 3.13 | | 0.180 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Arsenic,Dissolved | 0.557 | J | 0.180 | 2.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| Barium | 237 | | 0.381 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Beryllium | 0.327 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Cadmium | 0.405 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Cadmium,Dissolved | 0.237 | J | 0.150 | 1.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| Chromium | 31.4 | | 1.24 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Copper | 22.1 | | 1.51 | 5.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Copper,Dissolved | 1.85 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| Cobalt | 9.85 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Lead | 7.23 | | 0.849 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/21/2024 17:46 | WG2296381 |
| Molybdenum | 60.1 | | 0.348 | 5.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Nickel | 50.3 | | 0.816 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Nickel,Dissolved | 10.0 | | 0.816 | 2.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| Selenium | 1.27 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| Silver | 0.210 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/21/2024 15:52 | WG2296381 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/21/2024 17:46 | WG2296381 |
| Vanadium | 30.1 | | 0.664 | 5.00 | 1 | 06/26/2024 18:40 | WG2298769 |
| Zinc | 170 | | 3.02 | 25.0 | 1 | 06/26/2024 18:40 | WG2298769 |
| Zinc,Dissolved | 15.4 | J | 3.02 | 25.0 | 1 | 06/21/2024 15:52 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 200 | B | 30.4 | 100 | 1 | 06/02/2024 15:19 | WG2297105 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.9* | | | *78.0-120* | | *06/02/2024 15:19* | WG2297105 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/03/2024 14:14 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 14:14 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 14:14 | WG2297219 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 14:14 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,1-Dichloroethane | 4.75 | | 0.100 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,1-Dichloroethene | 315 | | 1.88 | 10.0 | 10 | 06/07/2024 06:07 | WG2300160 |
| cis-1,2-Dichloroethene | 2.39 | | 0.126 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 14:14 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 14:14 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Vinyl chloride | 7.71 | | 0.234 | 1.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 14:14 | WG2297219 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *06/03/2024 14:14* | WG2297219 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *06/07/2024 06:07* | WG2300160 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *77.0-126* | | *06/03/2024 14:14* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *77.0-126* | | *06/07/2024 06:07* | WG2300160 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/03/2024 14:14* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *06/07/2024 06:07* | WG2300160 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 155 | B | 33.0 | 100 | 1 | 05/31/2024 14:48 | WG2295250 |
| C22-C32 Hydrocarbons | 172 | | 33.0 | 100 | 1 | 05/31/2024 14:48 | WG2295250 |
| C32-C40 Hydrocarbons | 47.4 | J | 33.0 | 100 | 1 | 05/31/2024 14:48 | WG2295250 |
| *(S) o-Terphenyl* | *69.5* | | | *52.0-156* | | *05/31/2024 14:48* | WG2295250 |

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

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 05/30/2024 00:06 | WG2293415 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/29/2024 22:54 | WG2293420 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 117 | | 0.736 | 5.00 | 1 | 07/23/2024 19:37 | WG2328408 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 07/23/2024 19:37 | WG2328408 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 07/23/2024 19:37 | WG2328408 |
| Cobalt,Dissolved | 2.42 | J | 0.840 | 10.0 | 1 | 07/23/2024 19:37 | WG2328408 |
| Molybdenum,Dissolved | 34.5 | | 1.16 | 5.00 | 1 | 07/23/2024 19:37 | WG2328408 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 07/23/2024 19:37 | WG2328408 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| Arsenic | 9.65 | | 0.180 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Arsenic,Dissolved | 13.7 | | 0.180 | 2.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| Barium | 218 | | 0.381 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Beryllium | 0.274 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| Chromium | 18.8 | | 1.24 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Copper | 23.8 | | 1.51 | 5.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Copper,Dissolved | 2.13 | J | 1.51 | 5.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| Cobalt | 7.96 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Lead | 5.35 | | 0.849 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/21/2024 17:49 | WG2296381 |
| Molybdenum | 17.9 | | 0.348 | 5.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Nickel | 41.1 | | 0.816 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Nickel,Dissolved | 12.8 | | 0.816 | 2.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| Selenium | 0.436 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Selenium,Dissolved | 0.629 | J | 0.300 | 2.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/21/2024 15:55 | WG2296381 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/21/2024 17:49 | WG2296381 |
| Vanadium | 27.2 | | 0.664 | 5.00 | 1 | 06/26/2024 18:43 | WG2298769 |
| Zinc | 65.6 | | 3.02 | 25.0 | 1 | 06/26/2024 18:43 | WG2298769 |
| Zinc,Dissolved | U | | 3.02 | 25.0 | 1 | 06/21/2024 15:55 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 928 | | 30.4 | 100 | 1 | 06/02/2024 15:42 | WG2297105 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.6* | | | *78.0-120* | | *06/02/2024 15:42* | WG2297105 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/03/2024 14:36 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 14:36 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 14:36 | WG2297219 |
| Benzene | 13.0 | | 0.0941 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| sec-Butylbenzene | 4.26 | | 0.125 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| tert-Butylbenzene | 0.541 | J | 0.127 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 14:36 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Ethylbenzene | 5.33 | | 0.137 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Isopropylbenzene | 5.40 | | 0.105 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| p-Isopropyltoluene | 2.55 | | 0.120 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 14:36 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 14:36 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Naphthalene | 5.84 | | 1.00 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| n-Propylbenzene | 6.91 | | 0.0993 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Toluene | 1.44 | | 0.278 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,2,3-Trimethylbenzene | 6.70 | | 0.104 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| Xylenes, Total | 1.12 | J | 0.174 | 3.00 | 1 | 06/03/2024 14:36 | WG2297219 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *06/03/2024 14:36* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *94.7* | | | *77.0-126* | | *06/03/2024 14:36* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* | | *06/03/2024 14:36* | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 812 | | 33.0 | 100 | 1 | 05/31/2024 15:12 | WG2295250 |
| C22-C32 Hydrocarbons | 97.4 | J | 33.0 | 100 | 1 | 05/31/2024 15:12 | WG2295250 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 15:12 | WG2295250 |
| *(S) o-Terphenyl* | *75.3* | | | *52.0-156* | | *05/31/2024 15:12* | WG2295250 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | 0.896 | | 0.100 | 0.200 | 1 | 05/30/2024 22:29 | WG2293417 |
| Mercury,Dissolved | U | J6 O1 | 0.100 | 0.200 | 1 | 05/30/2024 19:56 | WG2294965 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 72.3 | | 0.736 | 5.00 | 1 | 06/07/2024 03:22 | WG2296311 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/07/2024 03:22 | WG2296311 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/07/2024 03:22 | WG2296311 |
| Cobalt,Dissolved | 6.26 | J | 0.840 | 10.0 | 1 | 06/07/2024 03:22 | WG2296311 |
| Molybdenum,Dissolved | 40.3 | | 1.16 | 5.00 | 1 | 06/07/2024 03:22 | WG2296311 |
| Vanadium,Dissolved | 8.58 | J | 4.99 | 20.0 | 1 | 06/07/2024 03:22 | WG2296311 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Arsenic | 1.59 | J | 0.180 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Arsenic,Dissolved | 0.389 | J | 0.180 | 2.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Barium | 259 | | 0.381 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Beryllium | 1.27 | J | 0.190 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Cadmium | 0.772 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Cadmium,Dissolved | 0.184 | J | 0.150 | 1.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Chromium | 43.5 | | 1.24 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Copper | 36.4 | | 1.51 | 5.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Copper,Dissolved | U | | 1.51 | 5.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Cobalt | 33.6 | | 0.0596 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Lead | 7.53 | | 0.849 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Molybdenum | 3.82 | J | 0.348 | 5.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Nickel | 131 | | 0.816 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Nickel,Dissolved | 28.1 | | 0.816 | 2.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Selenium | 1.28 | J | 0.300 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Silver | 0.0892 | J | 0.0700 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:46 | WG2296381 |
| Vanadium | 58.0 | | 0.664 | 5.00 | 1 | 06/26/2024 18:13 | WG2298963 |
| Zinc | 118 | | 3.02 | 25.0 | 1 | 06/26/2024 18:13 | WG2298963 |
| Zinc,Dissolved | 3.52 | J | 3.02 | 25.0 | 1 | 06/26/2024 18:46 | WG2296381 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 62.0 | B J | 30.4 | 100 | 1 | 06/02/2024 16:05 | WG2297105 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *78.0-120* | | *06/02/2024 16:05* | WG2297105 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/03/2024 14:59 | WG2297219 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 14:59 | WG2297219 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 14:59 | WG2297219 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Bromobenzene | U | J4 | 0.118 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 14:59 | WG2297219 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 4-Chlorotoluene | U | J4 | 0.114 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 14:59 | WG2297219 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 14:59 | WG2297219 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |

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

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Trichloroethene | 1.99 | | 0.190 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 14:59 | WG2297219 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *06/03/2024 14:59* | WG2297219 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *77.0-126* | | *06/03/2024 14:59* | WG2297219 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/03/2024 14:59* | WG2297219 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 15:32 | WG2295250 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 15:32 | WG2295250 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 15:32 | WG2295250 |
| *(S) o-Terphenyl* | *33.3* | J2 | | *52.0-156* | | *05/31/2024 15:32* | WG2295250 |

**Sample Narrative:**

L1740641-04 WG2295250: Surrogate failure due to matrix interference during extraction procedure.

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

# QUALITY CONTROL SUMMARY

L1740641-01,02,03

## Method Blank (MB)

(MB) R4075150-1 05/29/24 21:46

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4075150-2 05/29/24 21:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 2.85 | 95.1 | 80.0-120 | |

## L1740632-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740632-13 05/29/24 21:50 • (MS) R4075150-4 05/29/24 21:55 • (MSD) R4075150-5 05/29/24 21:57

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 1.68 | 1.59 | 56.1 | 53.0 | 1 | 75.0-125 | J6 | J6 | 5.62 | 20 |

# QUALITY CONTROL SUMMARY

L1740641-04

## Method Blank (MB)

(MB) R4075602-1 05/30/24 22:14

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4075602-2 05/30/24 22:17

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 3.03 | 101 | 80.0-120 | |

## L1740659-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740659-20 05/30/24 22:19 • (MS) R4075602-4 05/30/24 22:24 • (MSD) R4075602-5 05/30/24 22:26

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 180 | U | 151 | 171 | 83.9 | 94.8 | 60 | 75.0-125 | | | 12.2 | 20 |

# QUALITY CONTROL SUMMARY

L1740641-01,02,03

## Method Blank (MB)

(MB) R4075151-1 05/29/24 23:01

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury,Dissolved | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4075151-2 05/29/24 23:03

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | 2.87 | 95.8 | 80.0-120 | |

## L1740636-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740636-02 05/29/24 23:06 • (MS) R4075151-4 05/29/24 23:10 • (MSD) R4075151-5 05/29/24 23:13

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | U | 1.37 | 1.32 | 45.5 | 44.1 | 1 | 75.0-125 | J6 | J6 | 3.15 | 20 |

# QUALITY CONTROL SUMMARY

L1740641-04

## Method Blank (MB)

(MB) R4075546-1 05/30/24 19:45

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury,Dissolved | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4075546-2 05/30/24 19:53

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | 2.94 | 98.2 | 80.0-120 | |

## L1740641-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740641-04 05/30/24 19:56 • (MS) R4075546-4 05/30/24 20:00 • (MSD) R4075546-5 05/30/24 20:03

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | U | 1.93 | 2.09 | 64.4 | 69.6 | 1 | 75.0-125 | J6 | J6 | 7.82 | 20 |

**Sample Narrative:**

MS: Matrix spike failure due to matrix interference.

MSD: Matrix spike failure due to matrix interference.

Cp
1 Tc
2 Ss
3 Cn
4 Ds
5 Sr
6 Qc
7 Gl
8 Al
9 Sc
10

# QUALITY CONTROL SUMMARY

L1740641-01,04

## Method Blank (MB)

(MB) R4078423-1 06/07/24 02:53

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | U | | 0.736 | 5.00 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 |
| Chromium,Dissolved | U | | 1.40 | 10.0 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 |

## Laboratory Control Sample (LCS)

(LCS) R4078423-2 06/07/24 02:56

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 1010 | 101 | 80.0-120 | |
| Beryllium,Dissolved | 1000 | 1010 | 101 | 80.0-120 | |
| Chromium,Dissolved | 1000 | 1010 | 101 | 80.0-120 | |
| Cobalt,Dissolved | 1000 | 924 | 92.4 | 80.0-120 | |
| Molybdenum,Dissolved | 1000 | 977 | 97.7 | 80.0-120 | |
| Vanadium,Dissolved | 1000 | 1010 | 101 | 80.0-120 | |

## L1740641-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740641-01 06/07/24 02:59 • (MS) R4078423-4 06/07/24 03:06 • (MSD) R4078423-5 06/07/24 03:09

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 95.9 | 1080 | 1070 | 98.1 | 97.5 | 1 | 75.0-125 | | | 0.615 | 20 |
| Beryllium,Dissolved | 1000 | U | 987 | 989 | 98.7 | 98.9 | 1 | 75.0-125 | | | 0.162 | 20 |
| Chromium,Dissolved | 1000 | U | 976 | 970 | 97.6 | 97.0 | 1 | 75.0-125 | | | 0.657 | 20 |
| Cobalt,Dissolved | 1000 | 2.81 | 939 | 939 | 93.6 | 93.6 | 1 | 75.0-125 | | | 0.0192 | 20 |
| Molybdenum,Dissolved | 1000 | 21.2 | 999 | 992 | 97.8 | 97.1 | 1 | 75.0-125 | | | 0.700 | 20 |
| Vanadium,Dissolved | 1000 | 10.3 | 996 | 986 | 98.6 | 97.6 | 1 | 75.0-125 | | | 1.05 | 20 |

# QUALITY CONTROL SUMMARY

L1740641-02,03

## Method Blank (MB)

(MB) R4097588-1 07/23/24 19:13

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | U | | 0.736 | 5.00 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 |
| Chromium,Dissolved | U | | 1.40 | 10.0 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 |

## Laboratory Control Sample (LCS)

(LCS) R4097588-2 07/23/24 19:15

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 991 | 99.1 | 80.0-120 | |
| Beryllium,Dissolved | 1000 | 976 | 97.6 | 80.0-120 | |
| Chromium,Dissolved | 1000 | 979 | 97.9 | 80.0-120 | |
| Cobalt,Dissolved | 1000 | 956 | 95.6 | 80.0-120 | |
| Molybdenum,Dissolved | 1000 | 938 | 93.8 | 80.0-120 | |
| Vanadium,Dissolved | 1000 | 958 | 95.8 | 80.0-120 | |

## L1740641-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740641-02 07/23/24 19:16 • (MS) R4097588-4 07/23/24 19:20 • (MSD) R4097588-5 07/23/24 19:22

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 122 | 1110 | 1090 | 98.6 | 97.2 | 1 | 75.0-125 | | | 1.27 | 20 |
| Beryllium,Dissolved | 1000 | U | 1000 | 997 | 100 | 99.7 | 1 | 75.0-125 | | | 0.799 | 20 |
| Chromium,Dissolved | 1000 | U | 990 | 968 | 99.0 | 96.8 | 1 | 75.0-125 | | | 2.25 | 20 |
| Cobalt,Dissolved | 1000 | 3.84 | 1010 | 994 | 100 | 99.0 | 1 | 75.0-125 | | | 1.40 | 20 |
| Molybdenum,Dissolved | 1000 | 45.7 | 1010 | 989 | 96.0 | 94.4 | 1 | 75.0-125 | | | 1.62 | 20 |
| Vanadium,Dissolved | 1000 | U | 985 | 976 | 98.5 | 97.6 | 1 | 75.0-125 | | | 0.987 | 20 |

# QUALITY CONTROL SUMMARY

L1740641-01,02,03,04

## Method Blank (MB)

(MB) R4086714-1 06/26/24 13:25

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony,Dissolved | U | | 1.03 | 4.00 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 |
| Copper,Dissolved | U | | 1.51 | 5.00 |
| Lead,Dissolved | U | | 0.849 | 2.00 |
| Nickel,Dissolved | U | | 0.816 | 2.00 |
| Selenium,Dissolved | U | | 0.300 | 2.00 |
| Silver,Dissolved | U | | 0.0700 | 2.00 |
| Thallium,Dissolved | U | | 0.121 | 2.00 |
| Zinc,Dissolved | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4086714-2 06/26/24 13:29

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | 46.8 | 93.6 | 80.0-120 | |
| Arsenic,Dissolved | 50.0 | 51.7 | 103 | 80.0-120 | |
| Cadmium,Dissolved | 50.0 | 53.1 | 106 | 80.0-120 | |
| Copper,Dissolved | 50.0 | 50.5 | 101 | 80.0-120 | |
| Lead,Dissolved | 50.0 | 51.9 | 104 | 80.0-120 | |
| Nickel,Dissolved | 50.0 | 55.5 | 111 | 80.0-120 | |
| Selenium,Dissolved | 50.0 | 50.6 | 101 | 80.0-120 | |
| Silver,Dissolved | 50.0 | 50.9 | 102 | 80.0-120 | |
| Thallium,Dissolved | 50.0 | 53.0 | 106 | 80.0-120 | |
| Zinc,Dissolved | 50.0 | 50.7 | 101 | 80.0-120 | |

## L1740651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740651-01 06/26/24 17:42 • (MS) R4086714-10 06/26/24 17:48 • (MSD) R4086714-11 06/26/24 17:51

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | U | 52.6 | 54.5 | 105 | 109 | 1 | 75.0-125 | | | 3.53 | 20 |
| Arsenic,Dissolved | 50.0 | 43.9 | 94.7 | 96.5 | 102 | 105 | 1 | 75.0-125 | | | 1.82 | 20 |
| Cadmium,Dissolved | 50.0 | U | 53.5 | 55.0 | 107 | 110 | 1 | 75.0-125 | | | 2.73 | 20 |
| Copper,Dissolved | 50.0 | U | 52.1 | 53.5 | 104 | 107 | 1 | 75.0-125 | | | 2.66 | 20 |
| Lead,Dissolved | 50.0 | U | 51.2 | 53.5 | 102 | 107 | 1 | 75.0-125 | | | 4.40 | 20 |
| Nickel,Dissolved | 50.0 | 2.47 | 52.6 | 54.6 | 100 | 104 | 1 | 75.0-125 | | | 3.73 | 20 |
| Selenium,Dissolved | 50.0 | 36.2 | 90.5 | 90.5 | 109 | 109 | 1 | 75.0-125 | | | 0.0403 | 20 |

# QUALITY CONTROL SUMMARY

L1740641-01,02,03,04

## L1740651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740651-01 06/26/24 17:42 • (MS) R4086714-10 06/26/24 17:48 • (MSD) R4086714-11 06/26/24 17:51

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver,Dissolved | 50.0 | 0.0812 | 51.6 | 53.2 | 103 | 106 | 1 | 75.0-125 | | | 3.03 | 20 |
| Thallium,Dissolved | 50.0 | U | 49.2 | 51.1 | 98.4 | 102 | 1 | 75.0-125 | | | 3.71 | 20 |
| Zinc,Dissolved | 50.0 | U | 50.7 | 50.8 | 101 | 102 | 1 | 75.0-125 | | | 0.204 | 20 |

## Method Blank (MB)

(MB) R4084816-1 06/21/24 12:51

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4084816-2 06/21/24 12:55

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 48.8 | 97.5 | 80.0-120 | |
| Arsenic | 50.0 | 50.9 | 102 | 80.0-120 | |
| Barium | 50.0 | 45.7 | 91.5 | 80.0-120 | |
| Beryllium | 50.0 | 50.3 | 101 | 80.0-120 | |
| Cadmium | 50.0 | 52.4 | 105 | 80.0-120 | |
| Chromium | 50.0 | 51.7 | 103 | 80.0-120 | |
| Copper | 50.0 | 50.7 | 101 | 80.0-120 | |
| Cobalt | 50.0 | 51.7 | 103 | 80.0-120 | |
| Lead | 50.0 | 50.9 | 102 | 80.0-120 | |
| Molybdenum | 50.0 | 47.3 | 94.7 | 80.0-120 | |
| Nickel | 50.0 | 51.4 | 103 | 80.0-120 | |
| Selenium | 50.0 | 49.7 | 99.4 | 80.0-120 | |
| Silver | 50.0 | 49.6 | 99.2 | 80.0-120 | |
| Thallium | 50.0 | 50.1 | 100 | 80.0-120 | |
| Vanadium | 50.0 | 50.1 | 100 | 80.0-120 | |
| Zinc | 50.0 | 52.0 | 104 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1740641-01,02,03

## L1740632-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740632-08 06/21/24 12:58 • (MS) R4084816-4 06/21/24 13:05 • (MSD) R4084816-5 06/21/24 13:08

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 50.7 | 48.8 | 101 | 97.6 | 1 | 75.0-125 | | | 3.77 | 20 |
| Arsenic | 50.0 | 0.516 | 51.4 | 50.3 | 102 | 99.5 | 1 | 75.0-125 | | | 2.16 | 20 |
| Barium | 50.0 | 13.9 | 59.8 | 61.2 | 91.7 | 94.6 | 1 | 75.0-125 | | | 2.40 | 20 |
| Beryllium | 50.0 | U | 49.6 | 50.2 | 99.1 | 100 | 1 | 75.0-125 | | | 1.36 | 20 |
| Cadmium | 50.0 | 0.313 | 53.7 | 54.2 | 107 | 108 | 1 | 75.0-125 | | | 1.10 | 20 |
| Chromium | 50.0 | U | 52.2 | 49.7 | 104 | 99.4 | 1 | 75.0-125 | | | 4.90 | 20 |
| Copper | 50.0 | U | 50.7 | 52.5 | 101 | 105 | 1 | 75.0-125 | | | 3.44 | 20 |
| Cobalt | 50.0 | 0.790 | 53.1 | 51.2 | 105 | 101 | 1 | 75.0-125 | | | 3.65 | 20 |
| Lead | 50.0 | U | 50.7 | 51.2 | 101 | 102 | 1 | 75.0-125 | | | 0.998 | 20 |
| Molybdenum | 50.0 | U | 47.0 | 46.7 | 94.0 | 93.5 | 1 | 75.0-125 | | | 0.613 | 20 |
| Nickel | 50.0 | 15.7 | 67.3 | 65.1 | 103 | 98.9 | 1 | 75.0-125 | | | 3.32 | 20 |
| Selenium | 50.0 | U | 48.2 | 50.5 | 96.3 | 101 | 1 | 75.0-125 | | | 4.73 | 20 |
| Silver | 50.0 | U | 50.8 | 50.2 | 102 | 100 | 1 | 75.0-125 | | | 1.20 | 20 |
| Thallium | 50.0 | U | 50.0 | 50.4 | 100 | 101 | 1 | 75.0-125 | | | 0.880 | 20 |
| Vanadium | 50.0 | U | 49.5 | 48.1 | 99.1 | 96.2 | 1 | 75.0-125 | | | 2.98 | 20 |
| Zinc | 50.0 | 105 | 154 | 143 | 97.1 | 75.8 | 1 | 75.0-125 | | | 7.19 | 20 |

# QUALITY CONTROL SUMMARY

L1740641-04

## Method Blank (MB)

(MB) R4086928-1 06/26/24 17:53

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | 0.127 | J | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4086928-2 06/26/24 17:56

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 45.3 | 90.7 | 80.0-120 | |
| Arsenic | 50.0 | 48.5 | 97.1 | 80.0-120 | |
| Barium | 50.0 | 45.2 | 90.4 | 80.0-120 | |
| Beryllium | 50.0 | 48.4 | 96.7 | 80.0-120 | |
| Cadmium | 50.0 | 48.3 | 96.7 | 80.0-120 | |
| Chromium | 50.0 | 49.0 | 98.0 | 80.0-120 | |
| Copper | 50.0 | 47.3 | 94.6 | 80.0-120 | |
| Cobalt | 50.0 | 50.4 | 101 | 80.0-120 | |
| Lead | 50.0 | 48.5 | 97.0 | 80.0-120 | |
| Molybdenum | 50.0 | 45.0 | 90.0 | 80.0-120 | |
| Nickel | 50.0 | 50.9 | 102 | 80.0-120 | |
| Selenium | 50.0 | 46.3 | 92.6 | 80.0-120 | |
| Silver | 50.0 | 47.8 | 95.6 | 80.0-120 | |
| Thallium | 50.0 | 48.0 | 96.0 | 80.0-120 | |
| Vanadium | 50.0 | 48.4 | 96.9 | 80.0-120 | |
| Zinc | 50.0 | 47.7 | 95.3 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1740641-04

## L1740742-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740742-01 06/26/24 18:00 • (MS) R4086928-4 06/26/24 18:06 • (MSD) R4086928-5 06/26/24 18:10

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 49.6 | 48.6 | 99.2 | 97.1 | 1 | 75.0-125 | | | 2.07 | 20 |
| Arsenic | 50.0 | 2.89 | 52.7 | 51.9 | 99.6 | 98.1 | 1 | 75.0-125 | | | 1.47 | 20 |
| Barium | 50.0 | 23.4 | 71.5 | 69.0 | 96.2 | 91.3 | 1 | 75.0-125 | | | 3.48 | 20 |
| Beryllium | 50.0 | U | 45.4 | 47.4 | 90.7 | 94.8 | 1 | 75.0-125 | | | 4.40 | 20 |
| Cadmium | 50.0 | 0.662 | 50.8 | 49.1 | 100 | 96.9 | 1 | 75.0-125 | | | 3.35 | 20 |
| Chromium | 50.0 | | 50.2 | 49.4 | 100 | 98.7 | 1 | 75.0-125 | | | 1.61 | 20 |
| Copper | 50.0 | | 50.8 | 51.4 | 90.7 | 92.0 | 1 | 75.0-125 | | | 1.27 | 20 |
| Cobalt | 50.0 | 0.289 | 48.6 | 48.1 | 96.6 | 95.6 | 1 | 75.0-125 | | | 1.03 | 20 |
| Lead | 50.0 | | 50.2 | 48.8 | 100 | 97.6 | 1 | 75.0-125 | | | 2.74 | 20 |
| Molybdenum | 50.0 | | 57.2 | 56.6 | 99.2 | 98.1 | 1 | 75.0-125 | | | 0.917 | 20 |
| Nickel | 50.0 | 6.84 | 56.0 | 55.5 | 98.2 | 97.3 | 1 | 75.0-125 | | | 0.833 | 20 |
| Selenium | 50.0 | 0.796 | 50.2 | 48.7 | 98.8 | 95.9 | 1 | 75.0-125 | | | 2.96 | 20 |
| Silver | 50.0 | U | 49.6 | 48.4 | 99.2 | 96.9 | 1 | 75.0-125 | | | 2.41 | 20 |
| Thallium | 50.0 | U | 48.2 | 47.9 | 96.4 | 95.8 | 1 | 75.0-125 | | | 0.593 | 20 |
| Vanadium | 50.0 | 1.30 | 51.2 | 49.2 | 99.7 | 95.7 | 1 | 75.0-125 | | | 4.00 | 20 |
| Zinc | 50.0 | 39.1 | 84.5 | 84.1 | 90.9 | 90.0 | 1 | 75.0-125 | | | 0.547 | 20 |

# QUALITY CONTROL SUMMARY

L1740641-01

## Method Blank (MB)

(MB) R4077206-2 06/01/24 21:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4077206-1 06/01/24 20:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 5700 | 114 | 71.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *105* | *78.0-120* | |

## Method Blank (MB)

(MB) R4077308-2 06/02/24 13:06

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | 86.6 | J | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.7* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4077308-1 06/02/24 12:20

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 4690 | 93.8 | 71.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *110* | *78.0-120* | |

## Method Blank (MB)

(MB) R4078198-3 06/03/24 08:36

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

Cp
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Al
Sc

## Method Blank (MB)

(MB) R4078198-3 06/03/24 08:36

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078198-1 06/03/24 07:29 • (LCSD) R4078198-2 06/03/24 07:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 34.4 | 38.2 | 138 | 153 | 19.0-160 | J | J | 10.5 | 27 |
| Acrolein | 25.0 | 14.7 | 17.4 | 58.8 | 69.6 | 10.0-160 | J | J | 16.8 | 26 |
| Acrylonitrile | 25.0 | 26.4 | 30.5 | 106 | 122 | 55.0-149 | | | 14.4 | 20 |
| Benzene | 5.00 | 4.91 | 5.74 | 98.2 | 115 | 70.0-123 | | | 15.6 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078198-1 06/03/24 07:29 • (LCSD) R4078198-2 06/03/24 07:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 5.54 | 6.19 | 111 | 124 | 73.0-121 | | J4 | 11.1 | 20 |
| Bromodichloromethane | 5.00 | 4.62 | 5.28 | 92.4 | 106 | 75.0-120 | | | 13.3 | 20 |
| Bromoform | 5.00 | 4.29 | 5.03 | 85.8 | 101 | 68.0-132 | | | 15.9 | 20 |
| Bromomethane | 5.00 | 6.25 | 7.09 | 125 | 142 | 10.0-160 | | | 12.6 | 25 |
| n-Butylbenzene | 5.00 | 4.46 | 4.98 | 89.2 | 99.6 | 73.0-125 | | | 11.0 | 20 |
| sec-Butylbenzene | 5.00 | 5.40 | 5.97 | 108 | 119 | 75.0-125 | | | 10.0 | 20 |
| tert-Butylbenzene | 5.00 | 4.95 | 5.69 | 99.0 | 114 | 76.0-124 | | | 13.9 | 20 |
| Carbon tetrachloride | 5.00 | 4.28 | 4.71 | 85.6 | 94.2 | 68.0-126 | | | 9.57 | 20 |
| Chlorobenzene | 5.00 | 4.72 | 5.45 | 94.4 | 109 | 80.0-121 | | | 14.4 | 20 |
| Chlorodibromomethane | 5.00 | 4.19 | 4.92 | 83.8 | 98.4 | 77.0-125 | | | 16.0 | 20 |
| Chloroethane | 5.00 | 5.33 | 6.00 | 107 | 120 | 47.0-150 | | | 11.8 | 20 |
| Chloroform | 5.00 | 4.77 | 5.56 | 95.4 | 111 | 73.0-120 | J | | 15.3 | 20 |
| Chloromethane | 5.00 | 5.04 | 5.89 | 101 | 118 | 41.0-142 | | | 15.6 | 20 |
| 2-Chlorotoluene | 5.00 | 5.32 | 6.15 | 106 | 123 | 76.0-123 | | | 14.5 | 20 |
| 4-Chlorotoluene | 5.00 | 5.30 | 6.15 | 106 | 123 | 75.0-122 | | J4 | 14.8 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 3.86 | 4.33 | 77.2 | 86.6 | 58.0-134 | J | J | 11.5 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.64 | 5.54 | 92.8 | 111 | 80.0-122 | | | 17.7 | 20 |
| Dibromomethane | 5.00 | 4.50 | 5.18 | 90.0 | 104 | 80.0-120 | | | 14.0 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 5.14 | 5.80 | 103 | 116 | 79.0-121 | | | 12.1 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 5.18 | 5.84 | 104 | 117 | 79.0-120 | | | 12.0 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 5.12 | 5.90 | 102 | 118 | 79.0-120 | | | 14.2 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.41 | 5.77 | 108 | 115 | 51.0-149 | | | 6.44 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.00 | 5.77 | 100 | 115 | 70.0-126 | | | 14.3 | 20 |
| 1,2-Dichloroethane | 5.00 | 5.16 | 5.80 | 103 | 116 | 70.0-128 | | | 11.7 | 20 |
| 1,1-Dichloroethene | 5.00 | 4.42 | 4.83 | 88.4 | 96.6 | 71.0-124 | | | 8.86 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.42 | 5.18 | 88.4 | 104 | 73.0-120 | | | 15.8 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 4.57 | 5.30 | 91.4 | 106 | 73.0-120 | | | 14.8 | 20 |
| 1,2-Dichloropropane | 5.00 | 4.70 | 5.42 | 94.0 | 108 | 77.0-125 | | | 14.2 | 20 |
| 1,1-Dichloropropene | 5.00 | 4.75 | 5.27 | 95.0 | 105 | 74.0-126 | | | 10.4 | 20 |
| 1,3-Dichloropropane | 5.00 | 5.03 | 5.96 | 101 | 119 | 80.0-120 | | | 16.9 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.34 | 5.06 | 86.8 | 101 | 80.0-123 | | | 15.3 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 4.42 | 5.25 | 88.4 | 105 | 78.0-124 | | | 17.2 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.01 | 4.47 | 80.2 | 89.4 | 58.0-130 | | | 10.8 | 20 |
| Di-isopropyl ether | 5.00 | 4.83 | 5.66 | 96.6 | 113 | 58.0-138 | | | 15.8 | 20 |
| Ethylbenzene | 5.00 | 4.79 | 5.44 | 95.8 | 109 | 79.0-123 | | | 12.7 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 5.13 | 5.57 | 103 | 111 | 54.0-138 | | | 8.22 | 20 |
| Isopropylbenzene | 5.00 | 4.74 | 5.37 | 94.8 | 107 | 76.0-127 | | | 12.5 | 20 |
| p-Isopropyltoluene | 5.00 | 4.90 | 5.42 | 98.0 | 108 | 76.0-125 | | | 10.1 | 20 |
| 2-Butanone (MEK) | 25.0 | 27.5 | 31.8 | 110 | 127 | 44.0-160 | | | 14.5 | 20 |
| Methylene Chloride | 5.00 | 4.76 | 5.46 | 95.2 | 109 | 67.0-120 | J | | 13.7 | 20 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078198-1 06/03/24 07:29 • (LCSD) R4078198-2 06/03/24 07:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 24.5 | 28.6 | 98.0 | 114 | 68.0-142 | | | 15.4 | 20 |
| Methyl tert-butyl ether | 5.00 | 4.49 | 5.30 | 89.8 | 106 | 68.0-125 | | | 16.5 | 20 |
| Naphthalene | 5.00 | 3.92 | 4.24 | 78.4 | 84.8 | 54.0-135 | J | J | 7.84 | 20 |
| n-Propylbenzene | 5.00 | 5.42 | 6.01 | 108 | 120 | 77.0-124 | | | 10.3 | 20 |
| Styrene | 5.00 | 4.46 | 5.27 | 89.2 | 105 | 73.0-130 | | | 16.6 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.57 | 4.98 | 91.4 | 99.6 | 75.0-125 | | | 8.59 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 5.00 | 5.85 | 100 | 117 | 65.0-130 | | | 15.7 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 4.97 | 5.07 | 99.4 | 101 | 69.0-132 | | | 1.99 | 20 |
| Tetrachloroethene | 5.00 | 4.99 | 5.61 | 99.8 | 112 | 72.0-132 | | | 11.7 | 20 |
| Toluene | 5.00 | 4.96 | 5.69 | 99.2 | 114 | 79.0-120 | | | 13.7 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 4.43 | 4.75 | 88.6 | 95.0 | 50.0-138 | | | 6.97 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.67 | 5.02 | 93.4 | 100 | 57.0-137 | | | 7.22 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 4.57 | 5.13 | 91.4 | 103 | 73.0-124 | | | 11.5 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.95 | 5.71 | 99.0 | 114 | 80.0-120 | | | 14.3 | 20 |
| Trichloroethene | 5.00 | 4.64 | 5.14 | 92.8 | 103 | 78.0-124 | | | 10.2 | 20 |
| Trichlorofluoromethane | 5.00 | 4.72 | 4.91 | 94.4 | 98.2 | 59.0-147 | J | J | 3.95 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 5.33 | 5.81 | 107 | 116 | 73.0-130 | | | 8.62 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 5.17 | 5.82 | 103 | 116 | 76.0-121 | | | 11.8 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 5.14 | 5.80 | 103 | 116 | 77.0-120 | | | 12.1 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 5.29 | 5.82 | 106 | 116 | 76.0-122 | | | 9.54 | 20 |
| Vinyl chloride | 5.00 | 5.32 | 5.70 | 106 | 114 | 67.0-131 | | | 6.90 | 20 |
| Xylenes, Total | 15.0 | 14.2 | 16.2 | 94.7 | 108 | 79.0-123 | | | 13.2 | 20 |
| *(S) Toluene-d8* | | | | *107* | *107* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *99.4* | *102* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *103* | *104* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4078575-3 06/06/24 22:53

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078575-1 06/06/24 19:18 • (LCSD) R4078575-2 06/06/24 19:41

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.00 | 5.26 | 5.93 | 105 | 119 | 71.0-124 | | | 12.0 | 20 |
| *(S) Toluene-d8* | | | | *102* | *105* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.9* | *99.5* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *105* | *106* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075758-1 05/31/24 07:50

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | 34.9 | J | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *58.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075758-2 05/31/24 08:10 • (LCSD) R4075758-3 05/31/24 08:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 829 | 966 | 111 | 129 | 50.0-150 | | | 15.3 | 20 |
| C22-C32 Hydrocarbons | 750 | 734 | 870 | 97.9 | 116 | 50.0-150 | | | 17.0 | 20 |
| *(S) o-Terphenyl* | | | | *73.0* | *77.5* | *52.0-156* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J2 | Surrogate recovery limits have been exceeded; values are outside lower control limits. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1,6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1,4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # AB&I

Lab Project # **ROUXOCA-CA**

Collected by (print): D. Bailey

Site/Facility ID # –

P.O. # –

Collected by (signature):

Immediately Packed on Ice N___ Y___

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

Date Results Needed

Quote # –

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAERLVI 40mlAmb-HCl-BT | GROCA 40mlAmb HCl | M6010CAM17 250mlHDPE-HNO3 | M6010DCAM17 (FF) 250mlHDPE-HNO3 | V8260 40mlAmb-HCl | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-3-1 | Grab | GW | ~8 | 05/14/24 | 0832 | 9 | X | X | X | X | X | | | | | | | -01 |
| GW-3-2 | ↓ | GW | ~8.25 | ↓ | 1012 | 9 | X | X | X | X | X | | | | | | | -02 |
| GW-6-1 | | GW | ~4.89 | | 1312 | 9 | X | X | X | X | X | | | | | | | -03 |
| GW-6-2 | | GW | ~5.02 | | 1202 | 9 | X | X | X | X | X | | | | | | | -04 |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740641

Table H224

Acctnum: ROUXOCA

Template: T253289

Prelogin: P1076384

PM: 3500 - Jennifer Gambill

PB:

Shipped Via: **FedEx Ground**

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

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/14/24 | 1609 | Pace | | |
| Relinquished by : (Signature) Pace | 5/24/24 | 1630 | Received by: (Signature) SWA Cargo | Temp: 6.0 °C 2.3+0.1=2.4 Bottles Received: 36 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Custody Open | Date: 5/25/24 Time: 1200 | Hold: Condition: NCF / OK |

L1740641

| Tracking Numbers | Temperature |
|---|---|
| SW | 2.3+0.1=2.4 EDA6 |
| SW | 1.8+0.1=1.9 EDA6 |
| SW | 1.3+0.1=1.4 EDA6 |
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Emtan Oppa
Name

5/25/24
Date

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1740668 |
| Samples Received: | 05/25/2024 |
| Project Number: | |
| Description: | AB&I Redevelopment |
| Site: | AB&I FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G-D2-1-1.0 L1740668-01 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 12:10 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 15:40 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:13 | JTM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297369 | 1 | 06/03/24 10:10 | 06/03/24 17:18 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299525 | 2 | 06/06/24 06:42 | 06/06/24 18:34 | DSH | Mt. Juliet, TN |

## G-D2-1-2.0 L1740668-02 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 12:25 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 15:43 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:15 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 12:25 | 06/02/24 18:30 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299525 | 10 | 06/06/24 06:42 | 06/06/24 20:39 | JRM | Mt. Juliet, TN |

## G-D2-1-3.0 L1740668-03 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 12:35 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 15:45 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:16 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 12:35 | 05/31/24 18:12 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 12:35 | 06/02/24 18:49 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 5 | 06/04/24 06:32 | 06/04/24 19:21 | KDB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299525 | 2 | 06/06/24 06:42 | 06/06/24 17:53 | DSH | Mt. Juliet, TN |

## G-D2-1-5.0 L1740668-05 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 12:55 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 12:55 | 05/31/24 18:31 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 12:55 | 06/02/24 19:09 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 1 | 06/04/24 06:32 | 06/04/24 17:57 | KDB | Mt. Juliet, TN |

## P-11-12.5 L1740668-06 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 09:15 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 09:15 | 05/31/24 19:10 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 09:15 | 06/02/24 19:29 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 1 | 06/04/24 06:32 | 06/04/24 16:47 | KDB | Mt. Juliet, TN |

# SAMPLE SUMMARY

## SVP-53-S-4.0 L1740668-07 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 10:15 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 10:15 | 05/31/24 19:29 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 10:15 | 06/02/24 19:49 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297492 | 2 | 05/24/24 10:15 | 06/04/24 03:07 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 50 | 06/04/24 06:32 | 06/04/24 21:12 | KDB | Mt. Juliet, TN |

## SVP-57-S-6.0 L1740668-08 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 11:46 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 28.7 | 05/24/24 11:46 | 05/31/24 19:49 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 11.5 | 05/24/24 11:46 | 06/02/24 20:09 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 100 | 06/04/24 06:32 | 06/04/24 20:58 | KDB | Mt. Juliet, TN |

## TB-052424 L1740668-09 GW

Collected by: JA, DB | Collected date/time: 05/24/24 12:00 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298107 | 1 | 06/05/24 10:22 | 06/05/24 10:22 | JAH | Mt. Juliet, TN |

## EB-052424 L1740668-10 GW

Collected by: JA, DB | Collected date/time: 05/24/24 12:00 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2293966 | 1 | 06/02/24 14:49 | 06/03/24 10:19 | NDL | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2298963 | 1 | 06/06/24 04:18 | 06/26/24 18:16 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297105 | 1 | 06/02/24 14:57 | 06/02/24 14:57 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298107 | 1 | 06/05/24 11:05 | 06/05/24 11:05 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 15:52 | MAA | Mt. Juliet, TN |

## G-D1-1-1.0 L1740668-11 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 10:30 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 15:48 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:22 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 25 | 05/24/24 10:30 | 06/07/24 07:49 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297369 | 1 | 06/03/24 10:10 | 06/03/24 17:36 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299526 | 20 | 06/06/24 06:05 | 06/07/24 03:37 | DSH | Mt. Juliet, TN |

## G-D1-1-2.0 L1740668-12 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 10:35 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295630 | 1 | 05/30/24 17:22 | 05/30/24 17:33 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 15:50 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:23 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 25 | 05/24/24 10:35 | 06/07/24 08:13 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 10:35 | 06/02/24 20:28 | JAH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-D1-1-2.0 L1740668-12 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 10:35 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2301229 | 100 | 06/07/24 15:27 | 06/08/24 11:21 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299526 | 10 | 06/06/24 06:05 | 06/07/24 02:37 | DSH | Mt. Juliet, TN |

## G-D1-1-3.0 L1740668-13 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 10:55 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295888 | 1 | 05/31/24 07:30 | 05/31/24 07:38 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 16:16 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:25 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 10:55 | 05/31/24 20:08 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 8 | 05/24/24 10:55 | 06/03/24 00:14 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 10 | 06/04/24 06:32 | 06/04/24 20:02 | KDB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299526 | 10 | 06/06/24 06:05 | 06/06/24 19:03 | JRM | Mt. Juliet, TN |

## G-D1-1-4.0 L1740668-14 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 11:05 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300491 | 1 | 06/07/24 12:32 | 06/07/24 12:45 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300843 | 25 | 05/24/24 11:05 | 06/07/24 18:58 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2301229 | 10 | 06/07/24 15:27 | 06/08/24 10:54 | JAS | Mt. Juliet, TN |

## G-D1-1-5.0 L1740668-15 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 11:15 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295888 | 1 | 05/31/24 07:30 | 05/31/24 07:38 | MT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 11:15 | 05/31/24 20:27 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 11:15 | 06/02/24 21:25 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 20 | 06/04/24 06:32 | 06/04/24 20:30 | KDB | Mt. Juliet, TN |

## BS-D1-1-1.0 L1740668-16 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 08:50 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295888 | 1 | 05/31/24 07:30 | 05/31/24 07:38 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 16:19 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:27 | JTM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 1 | 06/03/24 13:52 | 06/03/24 18:04 | LJD | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 1 | 06/03/24 13:52 | 06/04/24 13:36 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299526 | 10 | 06/06/24 06:05 | 06/07/24 02:57 | DSH | Mt. Juliet, TN |

## BS-D1-1-2.0 L1740668-17 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 09:00 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295888 | 1 | 05/31/24 07:30 | 05/31/24 07:38 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 16:24 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:28 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 09:00 | 06/02/24 22:16 | JAH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## BS-D1-1-2.0 L1740668-17 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 09:00 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304133 | 1 | 06/13/24 09:21 | 06/13/24 21:47 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299526 | 2 | 06/06/24 06:05 | 06/07/24 02:17 | DSH | Mt. Juliet, TN |

## BS-D1-1-3.0 L1740668-18 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 09:15 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295888 | 1 | 05/31/24 07:30 | 05/31/24 07:38 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 16:27 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:30 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 09:15 | 05/31/24 20:47 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 09:15 | 06/02/24 22:35 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 20 | 06/04/24 06:32 | 06/04/24 23:03 | KDB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299526 | 10 | 06/06/24 06:05 | 06/07/24 03:17 | DSH | Mt. Juliet, TN |

## BS-D1-1-5.0 L1740668-20 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 09:40 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295888 | 1 | 05/31/24 07:30 | 05/31/24 07:38 | MT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 09:40 | 05/31/24 21:06 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 09:40 | 06/02/24 22:55 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2297499 | 1 | 06/04/24 06:32 | 06/04/24 18:11 | KDB | Mt. Juliet, TN |

## G-D3-1-1.0 L1740668-21 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 14:38 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295888 | 1 | 05/31/24 07:30 | 05/31/24 07:38 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 16:29 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:32 | JTM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 1 | 06/03/24 13:52 | 06/03/24 18:13 | LJD | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 1 | 06/03/24 13:52 | 06/04/24 13:44 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 11:28 | DSH | Mt. Juliet, TN |

## G-D3-1-2.0 L1740668-22 Solid

Collected by: JA, DB | Collected date/time: 05/24/24 14:44 | Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295888 | 1 | 05/31/24 07:30 | 05/31/24 07:38 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 16:31 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:34 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 14:44 | 06/02/24 23:15 | JAH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304143 | 1 | 06/14/24 01:34 | 06/14/24 21:24 | HCS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 12:42 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-D3-1-3.0 L1740668-23 Solid

Collected by: JA, DB
Collected date/time: 05/24/24 14:50
Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295890 | 1 | 05/31/24 07:57 | 05/31/24 08:04 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295950 | 1 | 05/30/24 22:04 | 05/31/24 16:39 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2298288 | 1 | 06/11/24 09:41 | 06/11/24 15:35 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 25 | 05/24/24 14:50 | 05/31/24 21:26 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1 | 05/24/24 14:50 | 06/02/24 23:34 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 1 | 06/04/24 16:42 | 06/05/24 00:16 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 12:17 | DSH | Mt. Juliet, TN |

## G-D3-1-5.0 L1740668-25 Solid

Collected by: JA, DB
Collected date/time: 05/24/24 15:00
Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2295890 | 1 | 05/31/24 07:57 | 05/31/24 08:04 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2296426 | 33 | 05/24/24 15:00 | 05/31/24 21:45 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297144 | 1.32 | 05/24/24 15:00 | 06/02/24 23:54 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 20 | 06/04/24 16:42 | 06/05/24 02:41 | JAS | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 06/30/24 18:18
Level II Report - Version 2: 08/15/24 20:06

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D2-1-1.0 | L1740668-01 | Mercury | 0.151 | | 0.0208 | 0.0463 | 1 | 05/31/2024 15:40 | WG2295950 |
| G-D2-1-2.0 | L1740668-02 | Mercury | 0.197 | | 0.0215 | 0.0479 | 1 | 05/31/2024 15:43 | WG2295950 |
| G-D2-1-3.0 | L1740668-03 | Mercury | 0.0559 | | 0.0198 | 0.0441 | 1 | 05/31/2024 15:45 | WG2295950 |
| G-D1-1-1.0 | L1740668-11 | Mercury | 0.126 | | 0.0197 | 0.0437 | 1 | 05/31/2024 15:48 | WG2295950 |
| G-D1-1-2.0 | L1740668-12 | Mercury | 0.0899 | | 0.0200 | 0.0444 | 1 | 05/31/2024 15:50 | WG2295950 |
| G-D1-1-3.0 | L1740668-13 | Mercury | 0.173 | | 0.0215 | 0.0479 | 1 | 05/31/2024 16:16 | WG2295950 |
| BS-D1-1-1.0 | L1740668-16 | Mercury | 0.101 | | 0.0199 | 0.0442 | 1 | 05/31/2024 16:19 | WG2295950 |
| BS-D1-1-2.0 | L1740668-17 | Mercury | 0.136 | | 0.0198 | 0.0440 | 1 | 05/31/2024 16:24 | WG2295950 |
| BS-D1-1-3.0 | L1740668-18 | Mercury | 0.0771 | | 0.0198 | 0.0440 | 1 | 05/31/2024 16:27 | WG2295950 |
| G-D3-1-1.0 | L1740668-21 | Mercury | 0.0460 | J | 0.0212 | 0.0472 | 1 | 05/31/2024 16:29 | WG2295950 |
| G-D3-1-2.0 | L1740668-22 | Mercury | 0.0830 | | 0.0219 | 0.0487 | 1 | 05/31/2024 16:31 | WG2295950 |
| G-D3-1-3.0 | L1740668-23 | Mercury | 0.0835 | | 0.0221 | 0.0492 | 1 | 05/31/2024 16:39 | WG2295950 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D2-1-1.0 | L1740668-01 | Antimony | 2.40 | | 0.630 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Arsenic | 6.51 | | 0.599 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Barium | 133 | | 0.0986 | 0.579 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Beryllium | 0.233 | | 0.0365 | 0.231 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Cadmium | 0.464 | J | 0.0545 | 0.579 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Chromium | 17.8 | | 0.154 | 1.16 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Cobalt | 5.73 | | 0.0938 | 1.16 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Copper | 35.6 | | 0.463 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Lead | 85.5 | | 0.241 | 0.579 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Molybdenum | 1.55 | | 0.126 | 0.579 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Nickel | 20.1 | | 0.153 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Silver | 0.219 | J | 0.147 | 1.16 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Vanadium | 21.3 | | 0.586 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-1.0 | L1740668-01 | Zinc | 113 | | 0.963 | 5.79 | 1 | 06/11/2024 15:13 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Antimony | 2.29 | J | 0.651 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Arsenic | 9.38 | | 0.620 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Barium | 205 | | 0.102 | 0.599 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Beryllium | 0.320 | | 0.0377 | 0.239 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Cadmium | 0.697 | | 0.0564 | 0.599 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Chromium | 28.0 | | 0.159 | 1.20 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Cobalt | 8.90 | | 0.0971 | 1.20 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Copper | 114 | | 0.479 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Lead | 164 | | 0.249 | 0.599 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Molybdenum | 1.54 | | 0.130 | 0.599 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Nickel | 37.4 | | 0.158 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Silver | 0.373 | J | 0.152 | 1.20 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Vanadium | 35.8 | | 0.606 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| G-D2-1-2.0 | L1740668-02 | Zinc | 186 | | 0.996 | 5.99 | 1 | 06/11/2024 15:15 | WG2298288 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D2-1-3.0 | L1740668-03 | Antimony | 2.42 | | 0.599 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Arsenic | 5.69 | | 0.571 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Barium | 129 | | 0.0939 | 0.551 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Beryllium | 0.557 | | 0.0347 | 0.220 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Cadmium | 0.344 | J | 0.0519 | 0.551 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Chromium | 31.4 | | 0.147 | 1.10 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Cobalt | 9.47 | | 0.0893 | 1.10 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Copper | 35.9 | | 0.441 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Lead | 37.4 | | 0.229 | 0.551 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Molybdenum | 0.657 | | 0.120 | 0.551 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Nickel | 46.0 | | 0.145 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Silver | 0.428 | J | 0.140 | 1.10 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Vanadium | 27.4 | | 0.557 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D2-1-3.0 | L1740668-03 | Zinc | 78.1 | | 0.917 | 5.51 | 1 | 06/11/2024 15:16 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Antimony | 2.62 | | 0.594 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Arsenic | 4.66 | | 0.566 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Barium | 105 | | 0.0930 | 0.546 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Beryllium | 0.120 | J | 0.0344 | 0.218 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Cadmium | 0.360 | J | 0.0514 | 0.546 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Chromium | 21.6 | | 0.145 | 1.09 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Cobalt | 7.88 | | 0.0886 | 1.09 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Copper | 36.4 | | 0.437 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Lead | 110 | | 0.227 | 0.546 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Molybdenum | 0.484 | J | 0.119 | 0.546 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Nickel | 28.2 | | 0.144 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Silver | 0.829 | J | 0.139 | 1.09 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Vanadium | 24.6 | | 0.553 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-1.0 | L1740668-11 | Zinc | 90.0 | | 0.909 | 5.46 | 1 | 06/11/2024 15:22 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Antimony | 1.68 | J | 0.604 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Arsenic | 5.43 | | 0.576 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Barium | 159 | | 0.0947 | 0.556 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Beryllium | 0.264 | | 0.0350 | 0.222 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Cadmium | 0.539 | J | 0.0523 | 0.556 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Chromium | 26.8 | | 0.148 | 1.11 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Cobalt | 9.95 | | 0.0901 | 1.11 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Copper | 53.6 | | 0.444 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Lead | 141 | | 0.231 | 0.556 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Molybdenum | 0.431 | J | 0.121 | 0.556 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Nickel | 31.1 | | 0.147 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Silver | 0.654 | J | 0.141 | 1.11 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Vanadium | 33.1 | | 0.562 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-2.0 | L1740668-12 | Zinc | 141 | | 0.924 | 5.56 | 1 | 06/11/2024 15:23 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Antimony | 3.15 | | 0.651 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Arsenic | 8.83 | | 0.620 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Barium | 183 | | 0.102 | 0.598 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Beryllium | 0.318 | | 0.0377 | 0.239 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Cadmium | 0.617 | | 0.0564 | 0.598 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Chromium | 31.3 | | 0.159 | 1.20 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Cobalt | 10.8 | | 0.0971 | 1.20 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Copper | 64.7 | | 0.479 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Lead | 103 | | 0.249 | 0.598 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Molybdenum | 0.931 | | 0.130 | 0.598 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Nickel | 44.1 | | 0.158 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Silver | 0.357 | J | 0.152 | 1.20 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Vanadium | 40.0 | | 0.606 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| G-D1-1-3.0 | L1740668-13 | Zinc | 156 | | 0.996 | 5.98 | 1 | 06/11/2024 15:25 | WG2298288 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-D1-1-1.0 | L1740668-16 | Antimony | 1.68 | J | 0.602 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Arsenic | 3.25 | | 0.573 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Barium | 140 | | 0.0942 | 0.553 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Beryllium | 0.145 | J | 0.0348 | 0.221 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Cadmium | 0.681 | | 0.0521 | 0.553 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Chromium | 29.3 | | 0.147 | 1.11 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Cobalt | 12.3 | | 0.0897 | 1.11 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Copper | 64.5 | | 0.442 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Lead | 200 | | 0.230 | 0.553 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Molybdenum | 0.549 | J | 0.121 | 0.553 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Nickel | 38.5 | | 0.146 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Silver | 0.492 | J | 0.140 | 1.11 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Vanadium | 30.7 | | 0.560 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-1.0 | L1740668-16 | Zinc | 176 | | 0.920 | 5.53 | 1 | 06/11/2024 15:27 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Antimony | 2.32 | | 0.598 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Arsenic | 3.87 | | 0.570 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Barium | 233 | | 0.0937 | 0.550 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Beryllium | 0.244 | | 0.0346 | 0.220 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Cadmium | 0.427 | J | 0.0518 | 0.550 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Chromium | 24.2 | | 0.146 | 1.10 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Cobalt | 10.0 | | 0.0892 | 1.10 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Copper | 121 | | 0.440 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Lead | 178 | | 0.229 | 0.550 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Molybdenum | 0.509 | J | 0.120 | 0.550 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Nickel | 23.1 | | 0.145 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Silver | 0.389 | J | 0.140 | 1.10 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Vanadium | 29.8 | | 0.556 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-2.0 | L1740668-17 | Zinc | 173 | | 0.915 | 5.50 | 1 | 06/11/2024 15:28 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Antimony | 3.74 | | 0.599 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Arsenic | 4.70 | | 0.570 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Barium | 131 | | 0.0937 | 0.550 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Beryllium | 0.215 | J J | 0.0347 | 0.220 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Cadmium | 0.174 | J J | 0.0518 | 0.550 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Chromium | 15.7 | | 0.146 | 1.10 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Cobalt | 11.7 | | 0.0892 | 1.10 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Copper | 34.9 | | 0.440 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Lead | 33.8 | | 0.229 | 0.550 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Molybdenum | 0.732 | | 0.120 | 0.550 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Nickel | 22.1 | | 0.145 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Silver | 0.179 | J | 0.140 | 1.10 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Vanadium | 42.4 | | 0.557 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| BS-D1-1-3.0 | L1740668-18 | Zinc | 83.4 | | 0.915 | 5.50 | 1 | 06/11/2024 15:30 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Antimony | 4.16 | | 0.642 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Arsenic | 5.57 | | 0.611 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Barium | 165 | | 0.101 | 0.590 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Beryllium | 0.199 | J J | 0.0372 | 0.236 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Cadmium | 0.133 | J J | 0.0556 | 0.590 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Chromium | 31.5 | | 0.157 | 1.18 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Cobalt | 13.5 | | 0.0957 | 1.18 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Copper | 32.9 | | 0.472 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Lead | 7.60 | | 0.246 | 0.590 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Molybdenum | 0.563 | J | 0.129 | 0.590 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Nickel | 39.4 | | 0.156 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Silver | 3.02 | | 0.150 | 1.18 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Vanadium | 53.5 | | 0.597 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| G-D3-1-1.0 | L1740668-21 | Zinc | 41.0 | | 0.982 | 5.90 | 1 | 06/11/2024 15:32 | WG2298288 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D3-1-2.0 | L1740668-22 | Antimony | 2.40 | J | 0.662 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Arsenic | 13.9 | | 0.630 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Barium | 337 | | 0.104 | 0.608 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Beryllium | 0.432 | | 0.0383 | 0.243 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Cadmium | 0.708 | | 0.0573 | 0.608 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Chromium | 26.2 | | 0.162 | 1.22 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Cobalt | 9.38 | | 0.0987 | 1.22 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Copper | 32.3 | | 0.487 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Lead | 35.2 | | 0.253 | 0.608 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Molybdenum | 0.347 | J | 0.133 | 0.608 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Nickel | 38.3 | | 0.161 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Silver | 0.217 | J | 0.155 | 1.22 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Vanadium | 34.1 | | 0.616 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-2.0 | L1740668-22 | Zinc | 77.8 | | 1.01 | 6.08 | 1 | 06/11/2024 15:34 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Antimony | 3.48 | | 0.669 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Arsenic | 19.5 | | 0.637 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Barium | 659 | | 0.105 | 0.615 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Beryllium | 0.464 | | 0.0387 | 0.246 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Cadmium | 2.08 | | 0.0579 | 0.615 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Chromium | 30.1 | | 0.164 | 1.23 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Cobalt | 12.7 | | 0.0997 | 1.23 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Copper | 57.6 | | 0.492 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Lead | 52.6 | | 0.256 | 0.615 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Molybdenum | 0.494 | J | 0.134 | 0.615 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Nickel | 45.5 | | 0.162 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Silver | 0.261 | J | 0.156 | 1.23 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Vanadium | 44.1 | | 0.622 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| G-D3-1-3.0 | L1740668-23 | Zinc | 91.6 | | 1.02 | 6.15 | 1 | 06/11/2024 15:35 | WG2298288 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052424 | L1740668-10 | TPHG C5 - C12 | 64.4 | B J | 30.4 | 100 | 1 | 06/02/2024 14:57 | WG2297105 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D2-1-3.0 | L1740668-03 | TPHG C5 - C12 | 12.7 | | 1.00 | 3.02 | 25 | 05/31/2024 18:12 | WG2296426 |
| G-D2-1-5.0 | L1740668-05 | TPHG C5 - C12 | 2.03 | B J | 1.04 | 3.13 | 25 | 05/31/2024 18:31 | WG2296426 |
| P-11-12.5 | L1740668-06 | TPHG C5 - C12 | 1.80 | B J | 1.13 | 3.40 | 25 | 05/31/2024 19:10 | WG2296426 |
| SVP-53-S-4.0 | L1740668-07 | TPHG C5 - C12 | 4.42 | B | 1.35 | 4.08 | 25 | 05/31/2024 19:29 | WG2296426 |
| SVP-57-S-6.0 | L1740668-08 | TPHG C5 - C12 | 97.2 | | 1.46 | 4.40 | 28.7 | 05/31/2024 19:49 | WG2296426 |
| G-D1-1-1.0 | L1740668-11 | TPHG C5 - C12 | 1.36 | J | 0.985 | 2.97 | 25 | 06/07/2024 07:49 | WG2300368 |
| G-D1-1-2.0 | L1740668-12 | TPHG C5 - C12 | 1.52 | J | 1.02 | 3.06 | 25 | 06/07/2024 08:13 | WG2300368 |
| G-D1-1-3.0 | L1740668-13 | TPHG C5 - C12 | 13.1 | | 1.18 | 3.54 | 25 | 05/31/2024 20:08 | WG2296426 |
| G-D1-1-4.0 | L1740668-14 | TPHG C5 - C12 | 6.68 | | 1.19 | 3.58 | 25 | 06/07/2024 18:58 | WG2300843 |
| G-D1-1-5.0 | L1740668-15 | TPHG C5 - C12 | 5.42 | B | 1.13 | 3.41 | 25 | 05/31/2024 20:27 | WG2296426 |
| BS-D1-1-3.0 | L1740668-18 | TPHG C5 - C12 | 2.52 | B J | 0.997 | 3.00 | 25 | 05/31/2024 20:47 | WG2296426 |
| BS-D1-1-5.0 | L1740668-20 | TPHG C5 - C12 | 2.21 | B J | 1.29 | 3.90 | 25 | 05/31/2024 21:06 | WG2296426 |
| G-D3-1-3.0 | L1740668-23 | TPHG C5 - C12 | 2.24 | B J | 1.22 | 3.67 | 25 | 05/31/2024 21:26 | WG2296426 |
| G-D3-1-5.0 | L1740668-25 | TPHG C5 - C12 | 9.78 | | 1.52 | 4.57 | 33 | 05/31/2024 21:45 | WG2296426 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| TB-052424 | L1740668-09 | Acetone | 13.5 | J | 11.3 | 50.0 | 1 | 06/05/2024 10:22 | WG2298107 |
| TB-052424 | L1740668-09 | Methylene Chloride | 0.509 | J | 0.430 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D2-1-2.0 | L1740668-02 | Benzene | 0.00815 | | 0.000661 | 0.00142 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | n-Butylbenzene | 0.0239 | | 0.00743 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | sec-Butylbenzene | 0.0181 | | 0.00408 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | tert-Butylbenzene | 0.00525 | J | 0.00276 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | 1,4-Dichlorobenzene | 0.00194 | J | 0.000991 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | Ethylbenzene | 0.0204 | | 0.00104 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | Isopropylbenzene | 0.00453 | | 0.000602 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | p-Isopropyltoluene | 0.0163 | | 0.00361 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | Naphthalene | 0.485 | | 0.00691 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | n-Propylbenzene | 0.0117 | | 0.00134 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | Toluene | 0.0333 | | 0.00184 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | 1,2,4-Trimethylbenzene | 0.0354 | | 0.00224 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | 1,2,3-Trimethylbenzene | 0.0477 | | 0.00224 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | 1,3,5-Trimethylbenzene | 0.00943 | | 0.00283 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-2.0 | L1740668-02 | Xylenes, Total | 0.0638 | | 0.00125 | 0.00920 | 1 | 06/02/2024 18:30 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | Benzene | 0.00381 | | 0.000565 | 0.00121 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | 1,4-Dichlorobenzene | 0.00108 | J | 0.000847 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | Ethylbenzene | 0.00773 | | 0.000892 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | Isopropylbenzene | 0.00131 | J | 0.000514 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | Naphthalene | 0.0288 | | 0.00590 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | n-Propylbenzene | 0.00520 | J | 0.00115 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | Toluene | 0.00947 | | 0.00157 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | 1,2,4-Trimethylbenzene | 0.00350 | J | 0.00191 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | 1,2,3-Trimethylbenzene | 0.00333 | J | 0.00191 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-3.0 | L1740668-03 | Xylenes, Total | 0.00762 | J | 0.00106 | 0.00786 | 1 | 06/02/2024 18:49 | WG2297144 |
| G-D2-1-5.0 | L1740668-05 | Xylenes, Total | 0.00203 | J | 0.00110 | 0.00814 | 1 | 06/02/2024 19:09 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | Benzene | 0.00151 | J | 0.000762 | 0.00163 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | 1,1-Dichloroethane | 0.000992 | J | 0.000801 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | Ethylbenzene | 0.00320 | J | 0.00120 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | Isopropylbenzene | 0.00132 | J | 0.000694 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | Naphthalene | 0.299 | | 0.0163 | 0.0418 | 2 | 06/04/2024 03:07 | WG2297492 |
| SVP-53-S-4.0 | L1740668-07 | n-Propylbenzene | 0.00188 | J | 0.00155 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | Toluene | 0.00796 | J | 0.00212 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | 1,2,4-Trimethylbenzene | 0.00591 | J | 0.00258 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | 1,2,3-Trimethylbenzene | 0.00432 | J | 0.00258 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | 1,3,5-Trimethylbenzene | 0.00470 | J | 0.00326 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| SVP-53-S-4.0 | L1740668-07 | Xylenes, Total | 0.00948 | J | 0.00144 | 0.0106 | 1 | 06/02/2024 19:49 | WG2297144 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-57-S-6.0 | L1740668-08 | Benzene | 0.0366 | | 0.00823 | 0.0176 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | n-Butylbenzene | 0.454 | | 0.0926 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | sec-Butylbenzene | 0.228 | | 0.0507 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | tert-Butylbenzene | 0.0388 | J | 0.0343 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | Ethylbenzene | 0.207 | | 0.0130 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | Isopropylbenzene | 0.139 | | 0.00749 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | p-Isopropyltoluene | 0.357 | | 0.0449 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | Naphthalene | 2.68 | | 0.0860 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | n-Propylbenzene | 0.228 | | 0.0167 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | Toluene | 0.0616 | J | 0.0230 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | 1,2,4-Trimethylbenzene | 0.512 | | 0.0279 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | 1,2,3-Trimethylbenzene | 1.37 | | 0.0279 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | 1,3,5-Trimethylbenzene | 0.190 | | 0.0352 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| SVP-57-S-6.0 | L1740668-08 | Xylenes, Total | 0.294 | | 0.0155 | 0.115 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| G-D1-1-2.0 | L1740668-12 | Naphthalene | 0.0167 | | 0.00598 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| G-D1-1-2.0 | L1740668-12 | Xylenes, Total | 0.00300 | J | 0.00108 | 0.00796 | 1 | 06/02/2024 20:28 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | Benzene | 0.000753 | J | 0.000636 | 0.00136 | 1 | 06/02/2024 21:25 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | Chlorobenzene | 0.00962 | | 0.000286 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | cis-1,2-Dichloroethene | 0.00144 | J | 0.00100 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | Naphthalene | 0.00813 | J | 0.00665 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | Toluene | 0.00281 | J | 0.00177 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | Trichloroethene | 0.00119 | J | 0.000796 | 0.00136 | 1 | 06/02/2024 21:25 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | 1,2,4-Trimethylbenzene | 0.00309 | J | 0.00215 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | 1,2,3-Trimethylbenzene | 0.00232 | J | 0.00215 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| G-D1-1-5.0 | L1740668-15 | Xylenes, Total | 0.00527 | J | 0.00120 | 0.00886 | 1 | 06/02/2024 21:25 | WG2297144 |
| BS-D1-1-2.0 | L1740668-17 | Benzene | 0.00193 | | 0.000568 | 0.00122 | 1 | 06/02/2024 22:16 | WG2297144 |
| BS-D1-1-2.0 | L1740668-17 | 1,4-Dichlorobenzene | 0.000905 | J | 0.000851 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| BS-D1-1-2.0 | L1740668-17 | Ethylbenzene | 0.000956 | J | 0.000896 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| BS-D1-1-2.0 | L1740668-17 | Naphthalene | 0.0221 | | 0.00594 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| BS-D1-1-2.0 | L1740668-17 | Toluene | 0.00225 | J | 0.00158 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| BS-D1-1-2.0 | L1740668-17 | 1,2,4-Trimethylbenzene | 0.00294 | J | 0.00192 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| BS-D1-1-2.0 | L1740668-17 | 1,2,3-Trimethylbenzene | 0.00255 | J | 0.00192 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| BS-D1-1-2.0 | L1740668-17 | Xylenes, Total | 0.00692 | J | 0.00107 | 0.00791 | 1 | 06/02/2024 22:16 | WG2297144 |
| BS-D1-1-3.0 | L1740668-18 | Benzene | 0.000841 | J | 0.000561 | 0.00120 | 1 | 06/02/2024 22:35 | WG2297144 |
| BS-D1-1-3.0 | L1740668-18 | Ethylbenzene | 0.00180 | J | 0.000885 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| BS-D1-1-3.0 | L1740668-18 | Xylenes, Total | 0.00261 | J | 0.00106 | 0.00780 | 1 | 06/02/2024 22:35 | WG2297144 |
| G-D3-1-2.0 | L1740668-22 | Benzene | 0.00272 | | 0.000687 | 0.00147 | 1 | 06/02/2024 23:15 | WG2297144 |
| G-D3-1-2.0 | L1740668-22 | Ethylbenzene | 0.00154 | J | 0.00108 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| G-D3-1-2.0 | L1740668-22 | Naphthalene | 0.0276 | | 0.00717 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| G-D3-1-2.0 | L1740668-22 | Toluene | 0.00360 | J | 0.00191 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| G-D3-1-2.0 | L1740668-22 | 1,2,3-Trimethylbenzene | 0.00247 | J | 0.00232 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| G-D3-1-2.0 | L1740668-22 | Xylenes, Total | 0.00522 | J | 0.00129 | 0.00956 | 1 | 06/02/2024 23:15 | WG2297144 |
| G-D3-1-3.0 | L1740668-23 | Xylenes, Total | 0.00185 | J | 0.00129 | 0.00953 | 1 | 06/02/2024 23:34 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | Benzene | 0.0402 | | 0.000854 | 0.00183 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | n-Butylbenzene | 0.0157 | J | 0.00960 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | sec-Butylbenzene | 0.00563 | J | 0.00527 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | Chlorobenzene | 0.00539 | | 0.000384 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | 1,4-Dichlorobenzene | 0.00206 | J | 0.00128 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | 1,1-Dichloroethane | 0.00919 | | 0.000898 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | cis-1,2-Dichloroethene | 0.00211 | J | 0.00134 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | Ethylbenzene | 0.0473 | | 0.00135 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | Isopropylbenzene | 0.00626 | | 0.000777 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | p-Isopropyltoluene | 0.109 | | 0.00467 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | Methylene Chloride | 0.0131 | J | 0.0121 | 0.0457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | Naphthalene | 0.101 | | 0.00892 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | n-Propylbenzene | 0.0220 | | 0.00173 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D3-1-5.0 | L1740668-25 | Toluene | 0.152 | | 0.00238 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | 1,2,4-Trimethylbenzene | 0.0769 | | 0.00290 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | 1,2,3-Trimethylbenzene | 0.0356 | | 0.00290 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | 1,3,5-Trimethylbenzene | 0.0303 | | 0.00366 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| G-D3-1-5.0 | L1740668-25 | Xylenes, Total | 0.290 | | 0.00161 | 0.0119 | 1.32 | 06/02/2024 23:54 | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052424 | L1740668-10 | C12-C22 Hydrocarbons | 41.4 | B J | 33.0 | 100 | 1 | 05/31/2024 15:52 | WG2295250 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D2-1-3.0 | L1740668-03 | C12-C22 Hydrocarbons | 27.7 | | 4.04 | 22.0 | 5 | 06/04/2024 19:21 | WG2297499 |
| G-D2-1-3.0 | L1740668-03 | C22-C32 Hydrocarbons | 85.9 | | 7.33 | 22.0 | 5 | 06/04/2024 19:21 | WG2297499 |
| G-D2-1-3.0 | L1740668-03 | C32-C40 Hydrocarbons | 68.4 | | 7.33 | 22.0 | 5 | 06/04/2024 19:21 | WG2297499 |
| G-D2-1-5.0 | L1740668-05 | C12-C22 Hydrocarbons | 4.64 | | 0.820 | 4.48 | 1 | 06/04/2024 17:57 | WG2297499 |
| G-D2-1-5.0 | L1740668-05 | C22-C32 Hydrocarbons | 22.8 | | 1.49 | 4.48 | 1 | 06/04/2024 17:57 | WG2297499 |
| G-D2-1-5.0 | L1740668-05 | C32-C40 Hydrocarbons | 22.4 | | 1.49 | 4.48 | 1 | 06/04/2024 17:57 | WG2297499 |
| SVP-53-S-4.0 | L1740668-07 | C12-C22 Hydrocarbons | 257 | J | 47.7 | 260 | 50 | 06/04/2024 21:12 | WG2297499 |
| SVP-53-S-4.0 | L1740668-07 | C22-C32 Hydrocarbons | 456 | | 86.4 | 260 | 50 | 06/04/2024 21:12 | WG2297499 |
| SVP-53-S-4.0 | L1740668-07 | C32-C40 Hydrocarbons | 311 | | 86.4 | 260 | 50 | 06/04/2024 21:12 | WG2297499 |
| SVP-57-S-6.0 | L1740668-08 | C12-C22 Hydrocarbons | 7040 | | 94.2 | 514 | 100 | 06/04/2024 20:58 | WG2297499 |
| SVP-57-S-6.0 | L1740668-08 | C22-C32 Hydrocarbons | 5040 | | 171 | 514 | 100 | 06/04/2024 20:58 | WG2297499 |
| SVP-57-S-6.0 | L1740668-08 | C32-C40 Hydrocarbons | 2540 | | 171 | 514 | 100 | 06/04/2024 20:58 | WG2297499 |
| G-D1-1-2.0 | L1740668-12 | C12-C22 Hydrocarbons | 136 | J | 81.4 | 444 | 100 | 06/08/2024 11:21 | WG2301229 |
| G-D1-1-2.0 | L1740668-12 | C22-C32 Hydrocarbons | 922 | | 148 | 444 | 100 | 06/08/2024 11:21 | WG2301229 |
| G-D1-1-2.0 | L1740668-12 | C32-C40 Hydrocarbons | 1090 | | 148 | 444 | 100 | 06/08/2024 11:21 | WG2301229 |
| G-D1-1-3.0 | L1740668-13 | C12-C22 Hydrocarbons | 553 | | 8.77 | 47.9 | 10 | 06/04/2024 20:02 | WG2297499 |
| G-D1-1-3.0 | L1740668-13 | C22-C32 Hydrocarbons | 700 | | 15.9 | 47.9 | 10 | 06/04/2024 20:02 | WG2297499 |
| G-D1-1-3.0 | L1740668-13 | C32-C40 Hydrocarbons | 389 | | 15.9 | 47.9 | 10 | 06/04/2024 20:02 | WG2297499 |
| G-D1-1-4.0 | L1740668-14 | C12-C22 Hydrocarbons | 388 | | 8.77 | 47.9 | 10 | 06/08/2024 10:54 | WG2301229 |
| G-D1-1-4.0 | L1740668-14 | C22-C32 Hydrocarbons | 743 | | 15.9 | 47.9 | 10 | 06/08/2024 10:54 | WG2301229 |
| G-D1-1-4.0 | L1740668-14 | C32-C40 Hydrocarbons | 675 | | 15.9 | 47.9 | 10 | 06/08/2024 10:54 | WG2301229 |
| G-D1-1-5.0 | L1740668-15 | C12-C22 Hydrocarbons | 404 | | 17.2 | 93.3 | 20 | 06/04/2024 20:30 | WG2297499 |
| G-D1-1-5.0 | L1740668-15 | C22-C32 Hydrocarbons | 880 | | 31.0 | 93.3 | 20 | 06/04/2024 20:30 | WG2297499 |
| G-D1-1-5.0 | L1740668-15 | C32-C40 Hydrocarbons | 505 | | 31.0 | 93.3 | 20 | 06/04/2024 20:30 | WG2297499 |
| BS-D1-1-3.0 | L1740668-18 | C12-C22 Hydrocarbons | 56.0 | J | 16.2 | 88.0 | 20 | 06/04/2024 23:03 | WG2297499 |
| BS-D1-1-3.0 | L1740668-18 | C22-C32 Hydrocarbons | 212 | | 29.3 | 88.0 | 20 | 06/04/2024 23:03 | WG2297499 |
| BS-D1-1-3.0 | L1740668-18 | C32-C40 Hydrocarbons | 204 | | 29.3 | 88.0 | 20 | 06/04/2024 23:03 | WG2297499 |
| BS-D1-1-5.0 | L1740668-20 | C12-C22 Hydrocarbons | 4.57 | J | 0.931 | 5.08 | 1 | 06/04/2024 18:11 | WG2297499 |
| BS-D1-1-5.0 | L1740668-20 | C22-C32 Hydrocarbons | 20.4 | | 1.69 | 5.08 | 1 | 06/04/2024 18:11 | WG2297499 |
| BS-D1-1-5.0 | L1740668-20 | C32-C40 Hydrocarbons | 21.1 | | 1.69 | 5.08 | 1 | 06/04/2024 18:11 | WG2297499 |
| G-D3-1-3.0 | L1740668-23 | C12-C22 Hydrocarbons | 37.0 | | 0.901 | 4.92 | 1 | 06/05/2024 00:16 | WG2298254 |
| G-D3-1-3.0 | L1740668-23 | C22-C32 Hydrocarbons | 122 | | 1.64 | 4.92 | 1 | 06/05/2024 00:16 | WG2298254 |
| G-D3-1-3.0 | L1740668-23 | C32-C40 Hydrocarbons | 45.6 | | 1.64 | 4.92 | 1 | 06/05/2024 00:16 | WG2298254 |
| G-D3-1-5.0 | L1740668-25 | C12-C22 Hydrocarbons | 27.8 | J | 17.9 | 97.5 | 20 | 06/05/2024 02:41 | WG2298254 |
| G-D3-1-5.0 | L1740668-25 | C22-C32 Hydrocarbons | 200 | | 32.4 | 97.5 | 20 | 06/05/2024 02:41 | WG2298254 |
| G-D3-1-5.0 | L1740668-25 | C32-C40 Hydrocarbons | 209 | | 32.4 | 97.5 | 20 | 06/05/2024 02:41 | WG2298254 |

# DETECTION SUMMARY

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-D1-1-1.0 | L1740668-16 | PCB 1260 | 0.0350 | | 0.00816 | 0.0188 | 1 | 06/04/2024 13:36 | WG2297376 |
| G-D3-1-1.0 | L1740668-21 | PCB 1242 | 0.157 | | 0.0139 | 0.0401 | 1 | 06/04/2024 13:44 | WG2297376 |
| G-D3-1-1.0 | L1740668-21 | PCB 1260 | 0.0124 | J | 0.00871 | 0.0201 | 1 | 06/04/2024 13:44 | WG2297376 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D2-1-1.0 | L1740668-01 | Anthracene | 0.0479 | J | 0.0138 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Benzo(a)anthracene | 0.465 | | 0.0135 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Benzo(b)fluoranthene | 0.778 | | 0.0143 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Benzo(k)fluoranthene | 0.246 | | 0.0137 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Benzo(g,h,i)perylene | 0.318 | | 0.0141 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Benzo(a)pyrene | 0.555 | | 0.0143 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Chrysene | 0.785 | | 0.0153 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Dibenz(a,h)anthracene | 0.103 | | 0.0214 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Fluoranthene | 0.466 | | 0.0139 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Fluorene | 0.0665 | J | 0.0125 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Indeno(1,2,3-cd)pyrene | 0.343 | | 0.0218 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Naphthalene | 0.0237 | J | 0.0193 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Phenanthrene | 0.133 | | 0.0153 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-1.0 | L1740668-01 | Pyrene | 0.686 | | 0.0150 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Acenaphthene | 0.280 | J | 0.0645 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Acenaphthylene | 0.159 | J | 0.0561 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Anthracene | 0.305 | J | 0.0710 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Benzo(a)anthracene | 2.93 | | 0.0703 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Benzo(b)fluoranthene | 5.64 | | 0.0743 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Benzo(k)fluoranthene | 1.62 | | 0.0709 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Benzo(g,h,i)perylene | 1.59 | | 0.0729 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Benzo(a)pyrene | 3.82 | | 0.0741 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Chrysene | 4.85 | | 0.0792 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Dibenz(a,h)anthracene | 0.593 | | 0.110 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Fluoranthene | 3.03 | | 0.0719 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Fluorene | 0.433 | | 0.0649 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Indeno(1,2,3-cd)pyrene | 1.78 | | 0.113 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Naphthalene | 0.274 | J | 0.100 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Phenanthrene | 1.15 | | 0.0791 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-2.0 | L1740668-02 | Pyrene | 4.37 | | 0.0776 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Acenaphthene | 0.0171 | J | 0.0119 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Anthracene | 0.0243 | J | 0.0131 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Benzo(a)anthracene | 0.533 | | 0.0129 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Benzo(b)fluoranthene | 0.865 | | 0.0137 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Benzo(k)fluoranthene | 0.278 | | 0.0130 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Benzo(g,h,i)perylene | 0.388 | | 0.0134 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Benzo(a)pyrene | 0.530 | | 0.0137 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Chrysene | 0.835 | | 0.0145 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Dibenz(a,h)anthracene | 0.138 | | 0.0204 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Fluoranthene | 0.599 | | 0.0132 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Indeno(1,2,3-cd)pyrene | 0.376 | | 0.0207 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Naphthalene | 0.0349 | J | 0.0184 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Phenanthrene | 0.127 | | 0.0145 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| G-D2-1-3.0 | L1740668-03 | Pyrene | 0.657 | | 0.0143 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D1-1-2.0 | L1740668-12 | Benzo(a)anthracene | 0.211 | J | 0.0652 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Benzo(b)fluoranthene | 0.480 | | 0.0690 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Benzo(k)fluoranthene | 0.147 | J | 0.0658 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Benzo(g,h,i)perylene | 0.129 | J | 0.0677 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Benzo(a)pyrene | 0.257 | J | 0.0688 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Chrysene | 0.330 | J | 0.0736 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Fluoranthene | 0.201 | J | 0.0668 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Indeno(1,2,3-cd)pyrene | 0.131 | J | 0.105 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Phenanthrene | 0.0758 | J | 0.0734 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-2.0 | L1740668-12 | Pyrene | 0.269 | J | 0.0720 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Benzo(a)anthracene | 0.403 | | 0.0703 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Benzo(b)fluoranthene | 0.706 | | 0.0743 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Benzo(k)fluoranthene | 0.250 | J | 0.0709 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Benzo(g,h,i)perylene | 0.354 | J | 0.0729 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Benzo(a)pyrene | 0.522 | | 0.0741 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Chrysene | 0.567 | | 0.0792 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Fluoranthene | 0.389 | J | 0.0719 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Indeno(1,2,3-cd)pyrene | 0.304 | J | 0.113 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Phenanthrene | 0.190 | J | 0.0791 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| G-D1-1-3.0 | L1740668-13 | Pyrene | 0.622 | | 0.0776 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| BS-D1-1-1.0 | L1740668-16 | Benzo(b)fluoranthene | 0.101 | J | 0.0687 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| BS-D1-1-1.0 | L1740668-16 | Benzo(a)pyrene | 0.0764 | J | 0.0685 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Anthracene | 0.0270 | J | 0.0131 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Benzo(a)anthracene | 0.460 | | 0.0129 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Benzo(b)fluoranthene | 1.02 | | 0.0136 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Benzo(k)fluoranthene | 0.290 | | 0.0130 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Benzo(g,h,i)perylene | 0.234 | | 0.0134 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Benzo(a)pyrene | 0.565 | | 0.0136 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Chrysene | 0.747 | | 0.0145 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Dibenz(a,h)anthracene | 0.0954 | | 0.0203 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Fluoranthene | 0.454 | | 0.0132 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Indeno(1,2,3-cd)pyrene | 0.269 | | 0.0207 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Naphthalene | 0.0199 | J | 0.0184 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Phenanthrene | 0.112 | | 0.0145 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| BS-D1-1-2.0 | L1740668-17 | Pyrene | 0.500 | | 0.0143 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| G-D3-1-1.0 | L1740668-21 | Fluoranthene | 0.0140 | J | 0.00709 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| G-D3-1-1.0 | L1740668-21 | Bis(2-ethylhexyl)phthalate | 0.177 | J | 0.0498 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| G-D3-1-1.0 | L1740668-21 | Pyrene | 0.0158 | J | 0.00765 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Acenaphthene | 0.00660 | J | 0.00656 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Anthracene | 0.00737 | J | 0.00722 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Benzo(a)anthracene | 0.129 | J3 | 0.00714 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Benzo(b)fluoranthene | 0.206 | J3 | 0.00756 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Benzo(k)fluoranthene | 0.0623 | | 0.00720 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Benzo(g,h,i)perylene | 0.118 | J3 | 0.00741 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Benzo(a)pyrene | 0.151 | J3 | 0.00753 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Chrysene | 0.193 | J3 | 0.00806 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Dibenz(a,h)anthracene | 0.0340 | J | 0.0112 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Fluoranthene | 0.119 | | 0.00731 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Fluorene | 0.00824 | J | 0.00660 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Indeno(1,2,3-cd)pyrene | 0.129 | J3 | 0.0115 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Naphthalene | 0.0107 | J | 0.0102 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Phenanthrene | 0.0555 | | 0.00804 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Bis(2-ethylhexyl)phthalate | 0.103 | J | 0.0514 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| G-D3-1-2.0 | L1740668-22 | Pyrene | 0.153 | J3 | 0.00789 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D3-1-3.0 | L1740668-23 | Benzo(a)anthracene | 0.00789 | J | 0.00722 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| G-D3-1-3.0 | L1740668-23 | Benzo(b)fluoranthene | 0.0133 | J | 0.00763 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| G-D3-1-3.0 | L1740668-23 | Benzo(g,h,i)perylene | 0.00909 | J | 0.00749 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| G-D3-1-3.0 | L1740668-23 | Benzo(a)pyrene | 0.0112 | J | 0.00761 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| G-D3-1-3.0 | L1740668-23 | Chrysene | 0.0101 | J | 0.00814 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| G-D3-1-3.0 | L1740668-23 | Fluoranthene | 0.0157 | J | 0.00739 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| G-D3-1-3.0 | L1740668-23 | Phenanthrene | 0.0167 | J | 0.00813 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| G-D3-1-3.0 | L1740668-23 | Pyrene | 0.0191 | J | 0.00797 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.151 | | 0.0208 | 0.0463 | 1 | 05/31/2024 15:40 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 2.40 | | 0.630 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| Arsenic | 6.51 | | 0.599 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| Barium | 133 | | 0.0986 | 0.579 | 1 | 06/11/2024 15:13 | WG2298288 |
| Beryllium | 0.233 | | 0.0365 | 0.231 | 1 | 06/11/2024 15:13 | WG2298288 |
| Cadmium | 0.464 | J | 0.0545 | 0.579 | 1 | 06/11/2024 15:13 | WG2298288 |
| Chromium | 17.8 | | 0.154 | 1.16 | 1 | 06/11/2024 15:13 | WG2298288 |
| Cobalt | 5.73 | | 0.0938 | 1.16 | 1 | 06/11/2024 15:13 | WG2298288 |
| Copper | 35.6 | | 0.463 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| Lead | 85.5 | | 0.241 | 0.579 | 1 | 06/11/2024 15:13 | WG2298288 |
| Molybdenum | 1.55 | | 0.126 | 0.579 | 1 | 06/11/2024 15:13 | WG2298288 |
| Nickel | 20.1 | | 0.153 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| Selenium | U | | 0.884 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| Silver | 0.219 | J | 0.147 | 1.16 | 1 | 06/11/2024 15:13 | WG2298288 |
| Thallium | U | | 0.456 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| Vanadium | 21.3 | | 0.586 | 2.31 | 1 | 06/11/2024 15:13 | WG2298288 |
| Zinc | 113 | | 0.963 | 5.79 | 1 | 06/11/2024 15:13 | WG2298288 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0137 | 0.0393 | 1 | 06/03/2024 17:18 | WG2297369 |
| PCB 1221 | U | | 0.0137 | 0.0393 | 1 | 06/03/2024 17:18 | WG2297369 |
| PCB 1232 | U | | 0.0137 | 0.0393 | 1 | 06/03/2024 17:18 | WG2297369 |
| PCB 1242 | U | | 0.0137 | 0.0393 | 1 | 06/03/2024 17:18 | WG2297369 |
| PCB 1248 | U | | 0.00854 | 0.0197 | 1 | 06/03/2024 17:18 | WG2297369 |
| PCB 1254 | U | | 0.00854 | 0.0197 | 1 | 06/03/2024 17:18 | WG2297369 |
| PCB 1260 | U | | 0.00854 | 0.0197 | 1 | 06/03/2024 17:18 | WG2297369 |
| *(S) Decachlorobiphenyl* | *118* | | | *10.0-135* | | *06/03/2024 17:18* | WG2297369 |
| *(S) Tetrachloro-m-xylene* | *72.9* | | | *10.0-139* | | *06/03/2024 17:18* | WG2297369 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0125 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Acenaphthylene | U | | 0.0109 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Anthracene | 0.0479 | J | 0.0138 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Benzidine | U | | 0.145 | 3.87 | 2 | 06/06/2024 18:34 | WG2299525 |
| Benzo(a)anthracene | 0.465 | | 0.0135 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Benzo(b)fluoranthene | 0.778 | | 0.0143 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Benzo(k)fluoranthene | 0.246 | | 0.0137 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Benzo(g,h,i)perylene | 0.318 | | 0.0141 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Benzo(a)pyrene | 0.555 | | 0.0143 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Bis(2-chlorethoxy)methane | U | | 0.0231 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Bis(2-chloroethyl)ether | U | | 0.0255 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0333 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 4-Bromophenyl-phenylether | U | | 0.0271 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2-Chloronaphthalene | U | | 0.0135 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 4-Chlorophenyl-phenylether | U | | 0.0268 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Chrysene | 0.785 | | 0.0153 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Dibenz(a,h)anthracene | 0.103 | | 0.0214 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 1,2-Dichlorobenzene | U | | 0.0228 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 1,3-Dichlorobenzene | U | | 0.0234 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 1,4-Dichlorobenzene | U | | 0.0229 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 3,3-Dichlorobenzidine | U | | 0.0285 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2,4-Dinitrotoluene | U | | 0.0221 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2,6-Dinitrotoluene | U | | 0.0252 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Fluoranthene | 0.466 | | 0.0139 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Fluorene | 0.0665 | J | 0.0125 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Hexachlorobenzene | U | | 0.0273 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Hexachloro-1,3-butadiene | U | | 0.0259 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Hexachlorocyclopentadiene | U | | 0.0405 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Hexachloroethane | U | | 0.0303 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Indeno(1,2,3-cd)pyrene | 0.343 | | 0.0218 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Isophorone | U | | 0.0236 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Naphthalene | 0.0237 | J | 0.0193 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Nitrobenzene | U | | 0.0268 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| n-Nitrosodimethylamine | U | | 0.114 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| n-Nitrosodiphenylamine | U | | 0.0583 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| n-Nitrosodi-n-propylamine | U | | 0.0257 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Phenanthrene | 0.133 | | 0.0153 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Benzylbutyl phthalate | U | | 0.0241 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0977 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Di-n-butyl phthalate | U | | 0.0264 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Diethyl phthalate | U | | 0.0255 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Dimethyl phthalate | U | | 0.163 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Di-n-octyl phthalate | U | | 0.0521 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Pyrene | 0.686 | | 0.0150 | 0.0771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 1,2,4-Trichlorobenzene | U | | 0.0241 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 4-Chloro-3-methylphenol | U | | 0.0250 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2-Chlorophenol | U | | 0.0255 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2,4-Dichlorophenol | U | | 0.0224 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2,4-Dimethylphenol | U | | 0.0201 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 4,6-Dinitro-2-methylphenol | U | | 0.175 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2,4-Dinitrophenol | U | | 0.181 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2-Nitrophenol | U | | 0.0275 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 4-Nitrophenol | U | | 0.0241 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Pentachlorophenol | U | | 0.0207 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| Phenol | U | | 0.0310 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| 2,4,6-Trichlorophenol | U | | 0.0248 | 0.771 | 2 | 06/06/2024 18:34 | WG2299525 |
| *(S) 2-Fluorophenol* | *76.2* | | | *12.0-120* | | *06/06/2024 18:34* | WG2299525 |
| *(S) Phenol-d5* | *71.0* | | | *10.0-120* | | *06/06/2024 18:34* | WG2299525 |
| *(S) Nitrobenzene-d5* | *73.7* | | | *10.0-122* | | *06/06/2024 18:34* | WG2299525 |
| *(S) 2-Fluorobiphenyl* | *64.6* | | | *15.0-120* | | *06/06/2024 18:34* | WG2299525 |
| *(S) 2,4,6-Tribromophenol* | *89.4* | | | *10.0-127* | | *06/06/2024 18:34* | WG2299525 |
| *(S) p-Terphenyl-d14* | *73.1* | | | *10.0-120* | | *06/06/2024 18:34* | WG2299525 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 83.5 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.197 | | 0.0215 | 0.0479 | 1 | 05/31/2024 15:43 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 2.29 | J | 0.651 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| Arsenic | 9.38 | | 0.620 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| Barium | 205 | | 0.102 | 0.599 | 1 | 06/11/2024 15:15 | WG2298288 |
| Beryllium | 0.320 | | 0.0377 | 0.239 | 1 | 06/11/2024 15:15 | WG2298288 |
| Cadmium | 0.697 | | 0.0564 | 0.599 | 1 | 06/11/2024 15:15 | WG2298288 |
| Chromium | 28.0 | | 0.159 | 1.20 | 1 | 06/11/2024 15:15 | WG2298288 |
| Cobalt | 8.90 | | 0.0971 | 1.20 | 1 | 06/11/2024 15:15 | WG2298288 |
| Copper | 114 | | 0.479 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| Lead | 164 | | 0.249 | 0.599 | 1 | 06/11/2024 15:15 | WG2298288 |
| Molybdenum | 1.54 | | 0.130 | 0.599 | 1 | 06/11/2024 15:15 | WG2298288 |
| Nickel | 37.4 | | 0.158 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| Selenium | U | | 0.915 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| Silver | 0.373 | J | 0.152 | 1.20 | 1 | 06/11/2024 15:15 | WG2298288 |
| Thallium | U | | 0.472 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| Vanadium | 35.8 | | 0.606 | 2.39 | 1 | 06/11/2024 15:15 | WG2298288 |
| Zinc | 186 | | 0.996 | 5.99 | 1 | 06/11/2024 15:15 | WG2298288 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0517 | 0.0708 | 1 | 06/02/2024 18:30 | WG2297144 |
| Acrylonitrile | U | | 0.00511 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| Benzene | 0.00815 | | 0.000661 | 0.00142 | 1 | 06/02/2024 18:30 | WG2297144 |
| Bromobenzene | U | | 0.00127 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| Bromodichloromethane | U | | 0.00103 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Bromoform | U | | 0.00166 | 0.0354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Bromomethane | U | | 0.00279 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| n-Butylbenzene | 0.0239 | | 0.00743 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| sec-Butylbenzene | 0.0181 | | 0.00408 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| tert-Butylbenzene | 0.00525 | J | 0.00276 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| Carbon tetrachloride | U | | 0.00127 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| Chlorobenzene | U | | 0.000297 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Chlorodibromomethane | U | | 0.000866 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Chloroethane | U | | 0.00241 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| Chloroform | U | | 0.00146 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Chloromethane | U | | 0.00616 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00122 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000637 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00552 | 0.0354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000917 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Dibromomethane | U | | 0.00106 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000602 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000849 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,4-Dichlorobenzene | 0.00194 | J | 0.000991 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00228 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000695 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000919 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000858 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.00104 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00147 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00201 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00115 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000709 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00107 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00161 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00195 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Di-isopropyl ether | U | | 0.000580 | 0.00142 | 1 | 06/02/2024 18:30 | WG2297144 |
| Ethylbenzene | 0.0204 | | 0.00104 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00849 | 0.0354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Isopropylbenzene | 0.00453 | | 0.000602 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| p-Isopropyltoluene | 0.0163 | | 0.00361 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0899 | 0.142 | 1 | 06/02/2024 18:30 | WG2297144 |
| Methylene Chloride | U | | 0.00940 | 0.0354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00323 | 0.0354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Methyl tert-butyl ether | U | | 0.000495 | 0.00142 | 1 | 06/02/2024 18:30 | WG2297144 |
| Naphthalene | 0.485 | | 0.00691 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| n-Propylbenzene | 0.0117 | | 0.00134 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| Styrene | U | | 0.000324 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00134 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000984 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00107 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Tetrachloroethene | U | | 0.00127 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Toluene | 0.0333 | | 0.00184 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.0104 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00623 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00131 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000845 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Trichloroethene | U | | 0.000827 | 0.00142 | 1 | 06/02/2024 18:30 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00117 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00229 | 0.0177 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2,4-Trimethylbenzene | 0.0354 | | 0.00224 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,2,3-Trimethylbenzene | 0.0477 | | 0.00224 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| 1,3,5-Trimethylbenzene | 0.00943 | | 0.00283 | 0.00708 | 1 | 06/02/2024 18:30 | WG2297144 |
| Vinyl chloride | U | | 0.00164 | 0.00354 | 1 | 06/02/2024 18:30 | WG2297144 |
| Xylenes, Total | 0.0638 | | 0.00125 | 0.00920 | 1 | 06/02/2024 18:30 | WG2297144 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/02/2024 18:30* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *67.0-138* | | *06/02/2024 18:30* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *92.4* | | | *70.0-130* | | *06/02/2024 18:30* | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.280 | J | 0.0645 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Acenaphthylene | 0.159 | J | 0.0561 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Anthracene | 0.305 | J | 0.0710 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Benzidine | U | | 0.749 | 20.0 | 10 | 06/06/2024 20:39 | WG2299525 |
| Benzo(a)anthracene | 2.93 | | 0.0703 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Benzo(b)fluoranthene | 5.64 | | 0.0743 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Benzo(k)fluoranthene | 1.62 | | 0.0709 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Benzo(g,h,i)perylene | 1.59 | | 0.0729 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 3.82 | | 0.0741 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Bis(2-chlorethoxy)methane | U | | 0.120 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Bis(2-chloroethyl)ether | U | | 0.132 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.172 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 4-Bromophenyl-phenylether | U | | 0.140 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2-Chloronaphthalene | U | | 0.0700 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| 4-Chlorophenyl-phenylether | U | | 0.139 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Chrysene | 4.85 | | 0.0792 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Dibenz(a,h)anthracene | 0.593 | | 0.110 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| 1,2-Dichlorobenzene | U | | 0.118 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 1,3-Dichlorobenzene | U | | 0.121 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 1,4-Dichlorobenzene | U | | 0.119 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 3,3-Dichlorobenzidine | U | | 0.147 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2,4-Dinitrotoluene | U | | 0.114 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2,6-Dinitrotoluene | U | | 0.130 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Fluoranthene | 3.03 | | 0.0719 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Fluorene | 0.433 | | 0.0649 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Hexachlorobenzene | U | | 0.141 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Hexachloro-1,3-butadiene | U | | 0.134 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Hexachlorocyclopentadiene | U | | 0.209 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Hexachloroethane | U | | 0.157 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Indeno(1,2,3-cd)pyrene | 1.78 | | 0.113 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Isophorone | U | | 0.122 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Naphthalene | 0.274 | J | 0.100 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Nitrobenzene | U | | 0.139 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| n-Nitrosodimethylamine | U | | 0.591 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| n-Nitrosodiphenylamine | U | | 0.302 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| n-Nitrosodi-n-propylamine | U | | 0.133 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Phenanthrene | 1.15 | | 0.0791 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| Benzylbutyl phthalate | U | | 0.124 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Bis(2-ethylhexyl)phthalate | U | | 0.505 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Di-n-butyl phthalate | U | | 0.136 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Diethyl phthalate | U | | 0.132 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Dimethyl phthalate | U | | 0.845 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Di-n-octyl phthalate | U | | 0.269 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Pyrene | 4.37 | | 0.0776 | 0.399 | 10 | 06/06/2024 20:39 | WG2299525 |
| 1,2,4-Trichlorobenzene | U | | 0.124 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 4-Chloro-3-methylphenol | U | | 0.129 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2-Chlorophenol | U | | 0.132 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2,4-Dichlorophenol | U | | 0.116 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2,4-Dimethylphenol | U | | 0.104 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 4,6-Dinitro-2-methylphenol | U | | 0.904 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2,4-Dinitrophenol | U | | 0.932 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2-Nitrophenol | U | | 0.142 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 4-Nitrophenol | U | | 0.124 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Pentachlorophenol | U | | 0.107 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| Phenol | U | | 0.160 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| 2,4,6-Trichlorophenol | U | | 0.128 | 3.99 | 10 | 06/06/2024 20:39 | WG2299525 |
| *(S) 2-Fluorophenol* | *82.8* | | | *12.0-120* | | *06/06/2024 20:39* | WG2299525 |
| *(S) Phenol-d5* | *69.2* | | | *10.0-120* | | *06/06/2024 20:39* | WG2299525 |
| *(S) Nitrobenzene-d5* | *73.7* | | | *10.0-122* | | *06/06/2024 20:39* | WG2299525 |
| *(S) 2-Fluorobiphenyl* | *76.2* | | | *15.0-120* | | *06/06/2024 20:39* | WG2299525 |
| *(S) 2,4,6-Tribromophenol* | *102* | | | *10.0-127* | | *06/06/2024 20:39* | WG2299525 |
| *(S) p-Terphenyl-d14* | *88.2* | | | *10.0-120* | | *06/06/2024 20:39* | WG2299525 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 90.8 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0559 | | 0.0198 | 0.0441 | 1 | 05/31/2024 15:45 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 2.42 | | 0.599 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| Arsenic | 5.69 | | 0.571 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| Barium | 129 | | 0.0939 | 0.551 | 1 | 06/11/2024 15:16 | WG2298288 |
| Beryllium | 0.557 | | 0.0347 | 0.220 | 1 | 06/11/2024 15:16 | WG2298288 |
| Cadmium | 0.344 | J | 0.0519 | 0.551 | 1 | 06/11/2024 15:16 | WG2298288 |
| Chromium | 31.4 | | 0.147 | 1.10 | 1 | 06/11/2024 15:16 | WG2298288 |
| Cobalt | 9.47 | | 0.0893 | 1.10 | 1 | 06/11/2024 15:16 | WG2298288 |
| Copper | 35.9 | | 0.441 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| Lead | 37.4 | | 0.229 | 0.551 | 1 | 06/11/2024 15:16 | WG2298288 |
| Molybdenum | 0.657 | | 0.120 | 0.551 | 1 | 06/11/2024 15:16 | WG2298288 |
| Nickel | 46.0 | | 0.145 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| Selenium | U | | 0.842 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| Silver | 0.428 | J | 0.140 | 1.10 | 1 | 06/11/2024 15:16 | WG2298288 |
| Thallium | U | | 0.434 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| Vanadium | 27.4 | | 0.557 | 2.20 | 1 | 06/11/2024 15:16 | WG2298288 |
| Zinc | 78.1 | | 0.917 | 5.51 | 1 | 06/11/2024 15:16 | WG2298288 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 12.7 | | 1.00 | 3.02 | 25 | 05/31/2024 18:12 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.2* | | | *77.0-120* | | *05/31/2024 18:12* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0442 | 0.0605 | 1 | 06/02/2024 18:49 | WG2297144 |
| Acrylonitrile | U | | 0.00437 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| Benzene | 0.00381 | | 0.000565 | 0.00121 | 1 | 06/02/2024 18:49 | WG2297144 |
| Bromobenzene | U | | 0.00109 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| Bromodichloromethane | U | | 0.000877 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Bromoform | U | | 0.00142 | 0.0302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Bromomethane | U | | 0.00238 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| n-Butylbenzene | U | | 0.00635 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| sec-Butylbenzene | U | | 0.00348 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| tert-Butylbenzene | U | | 0.00236 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| Carbon tetrachloride | U | | 0.00109 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| Chlorobenzene | U | | 0.000254 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Chlorodibromomethane | U | | 0.000740 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Chloroethane | U | | 0.00206 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| Chloroform | U | | 0.00125 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Chloromethane | U | | 0.00526 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00105 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000544 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00472 | 0.0302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000784 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Dibromomethane | U | | 0.000907 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000514 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000726 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,4-Dichlorobenzene | 0.00108 | J | 0.000847 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00195 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000594 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000785 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000733 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.000888 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00126 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00172 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.000979 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000606 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.000916 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00138 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00167 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Di-isopropyl ether | U | | 0.000496 | 0.00121 | 1 | 06/02/2024 18:49 | WG2297144 |
| Ethylbenzene | 0.00773 | | 0.000892 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00726 | 0.0302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Isopropylbenzene | 0.00131 | J | 0.000514 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00308 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0768 | 0.121 | 1 | 06/02/2024 18:49 | WG2297144 |
| Methylene Chloride | U | | 0.00803 | 0.0302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00276 | 0.0302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Methyl tert-butyl ether | U | | 0.000423 | 0.00121 | 1 | 06/02/2024 18:49 | WG2297144 |
| Naphthalene | 0.0288 | | 0.00590 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| n-Propylbenzene | 0.00520 | J | 0.00115 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| Styrene | U | | 0.000277 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00115 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000841 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000912 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Tetrachloroethene | U | | 0.00108 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Toluene | 0.00947 | | 0.00157 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.00887 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00532 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00112 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000722 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Trichloroethene | U | | 0.000706 | 0.00121 | 1 | 06/02/2024 18:49 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00100 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00196 | 0.0151 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2,4-Trimethylbenzene | 0.00350 | J | 0.00191 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,2,3-Trimethylbenzene | 0.00333 | J | 0.00191 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00242 | 0.00605 | 1 | 06/02/2024 18:49 | WG2297144 |
| Vinyl chloride | U | | 0.00140 | 0.00302 | 1 | 06/02/2024 18:49 | WG2297144 |
| Xylenes, Total | 0.00762 | J | 0.00106 | 0.00786 | 1 | 06/02/2024 18:49 | WG2297144 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/02/2024 18:49* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/02/2024 18:49* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *90.3* | | | *70.0-130* | | *06/02/2024 18:49* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 27.7 | | 4.04 | 22.0 | 5 | 06/04/2024 19:21 | WG2297499 |
| C22-C32 Hydrocarbons | 85.9 | | 7.33 | 22.0 | 5 | 06/04/2024 19:21 | WG2297499 |
| C32-C40 Hydrocarbons | 68.4 | | 7.33 | 22.0 | 5 | 06/04/2024 19:21 | WG2297499 |
| *(S) o-Terphenyl* | *57.3* | | | *18.0-148* | | *06/04/2024 19:21* | WG2297499 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0171 | J | 0.0119 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Acenaphthylene | U | | 0.0103 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Anthracene | 0.0243 | J | 0.0131 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Benzidine | U | | 0.138 | 3.68 | 2 | 06/06/2024 17:53 | WG2299525 |
| Benzo(a)anthracene | 0.533 | | 0.0129 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Benzo(b)fluoranthene | 0.865 | | 0.0137 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Benzo(k)fluoranthene | 0.278 | | 0.0130 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Benzo(g,h,i)perylene | 0.388 | | 0.0134 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Benzo(a)pyrene | 0.530 | | 0.0137 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Bis(2-chlorethoxy)methane | U | | 0.0220 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Bis(2-chloroethyl)ether | U | | 0.0242 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0317 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 4-Bromophenyl-phenylether | U | | 0.0258 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2-Chloronaphthalene | U | | 0.0129 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 4-Chlorophenyl-phenylether | U | | 0.0256 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Chrysene | 0.835 | | 0.0145 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Dibenz(a,h)anthracene | 0.138 | | 0.0204 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 1,2-Dichlorobenzene | U | | 0.0217 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 1,3-Dichlorobenzene | U | | 0.0223 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 1,4-Dichlorobenzene | U | | 0.0218 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 3,3-Dichlorobenzidine | U | | 0.0271 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2,4-Dinitrotoluene | U | | 0.0210 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2,6-Dinitrotoluene | U | | 0.0240 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Fluoranthene | 0.599 | | 0.0132 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Fluorene | U | | 0.0119 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Hexachlorobenzene | U | | 0.0260 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Hexachloro-1,3-butadiene | U | | 0.0247 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Hexachlorocyclopentadiene | U | | 0.0386 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Hexachloroethane | U | | 0.0289 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Indeno(1,2,3-cd)pyrene | 0.376 | | 0.0207 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Isophorone | U | | 0.0225 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Naphthalene | 0.0349 | J | 0.0184 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Nitrobenzene | U | | 0.0256 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| n-Nitrosodimethylamine | U | | 0.109 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| n-Nitrosodiphenylamine | U | | 0.0555 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| n-Nitrosodi-n-propylamine | U | | 0.0245 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Phenanthrene | 0.127 | | 0.0145 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Benzylbutyl phthalate | U | | 0.0229 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0930 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Di-n-butyl phthalate | U | | 0.0251 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Diethyl phthalate | U | | 0.0242 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Dimethyl phthalate | U | | 0.155 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Di-n-octyl phthalate | U | | 0.0496 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Pyrene | 0.657 | | 0.0143 | 0.0734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 1,2,4-Trichlorobenzene | U | | 0.0229 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 4-Chloro-3-methylphenol | U | | 0.0238 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2-Chlorophenol | U | | 0.0242 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2,4-Dichlorophenol | U | | 0.0214 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0192 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 4,6-Dinitro-2-methylphenol | U | | 0.166 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2,4-Dinitrophenol | U | | 0.172 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2-Nitrophenol | U | | 0.0262 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 4-Nitrophenol | U | | 0.0229 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Pentachlorophenol | U | | 0.0197 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| Phenol | U | | 0.0295 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| 2,4,6-Trichlorophenol | U | | 0.0236 | 0.734 | 2 | 06/06/2024 17:53 | WG2299525 |
| *(S) 2-Fluorophenol* | *72.0* | | | *12.0-120* | | *06/06/2024 17:53* | WG2299525 |
| *(S) Phenol-d5* | *69.5* | | | *10.0-120* | | *06/06/2024 17:53* | WG2299525 |
| *(S) Nitrobenzene-d5* | *72.3* | | | *10.0-122* | | *06/06/2024 17:53* | WG2299525 |
| *(S) 2-Fluorobiphenyl* | *61.9* | | | *15.0-120* | | *06/06/2024 17:53* | WG2299525 |
| *(S) 2,4,6-Tribromophenol* | *96.5* | | | *10.0-127* | | *06/06/2024 17:53* | WG2299525 |
| *(S) p-Terphenyl-d14* | *77.0* | | | *10.0-120* | | *06/06/2024 17:53* | WG2299525 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.4 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.03 | B J | 1.04 | 3.13 | 25 | 05/31/2024 18:31 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* | | *05/31/2024 18:31* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0457 | 0.0626 | 1 | 06/02/2024 19:09 | WG2297144 |
| Acrylonitrile | U | | 0.00452 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| Benzene | U | | 0.000585 | 0.00125 | 1 | 06/02/2024 19:09 | WG2297144 |
| Bromobenzene | U | | 0.00113 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| Bromodichloromethane | U | | 0.000908 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Bromoform | U | | 0.00146 | 0.0313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Bromomethane | U | | 0.00247 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| n-Butylbenzene | U | | 0.00657 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| sec-Butylbenzene | U | | 0.00361 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| tert-Butylbenzene | U | | 0.00244 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| Carbon tetrachloride | U | | 0.00112 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| Chlorobenzene | U | | 0.000263 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Chlorodibromomethane | U | | 0.000766 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Chloroethane | U | | 0.00213 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| Chloroform | U | | 0.00129 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Chloromethane | U | | 0.00545 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00108 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000563 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00488 | 0.0313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000811 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Dibromomethane | U | | 0.000939 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000532 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000751 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.000876 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00202 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000615 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000813 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000759 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.000919 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00130 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00178 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00101 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000627 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.000948 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00143 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00173 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Di-isopropyl ether | U | | 0.000513 | 0.00125 | 1 | 06/02/2024 19:09 | WG2297144 |
| Ethylbenzene | U | | 0.000923 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00751 | 0.0313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Isopropylbenzene | U | | 0.000532 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00319 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0795 | 0.125 | 1 | 06/02/2024 19:09 | WG2297144 |
| Methylene Chloride | U | | 0.00831 | 0.0313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00285 | 0.0313 | 1 | 06/02/2024 19:09 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000438 | 0.00125 | 1 | 06/02/2024 19:09 | WG2297144 |
| Naphthalene | U | | 0.00611 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| n-Propylbenzene | U | | 0.00119 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| Styrene | U | | 0.000287 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00119 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000870 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000944 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Tetrachloroethene | U | | 0.00112 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Toluene | U | | 0.00163 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.00918 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00551 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00116 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000747 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Trichloroethene | U | | 0.000731 | 0.00125 | 1 | 06/02/2024 19:09 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00104 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00203 | 0.0156 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2,4-Trimethylbenzene | U | | 0.00198 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,2,3-Trimethylbenzene | U | | 0.00198 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00250 | 0.00626 | 1 | 06/02/2024 19:09 | WG2297144 |
| Vinyl chloride | U | | 0.00145 | 0.00313 | 1 | 06/02/2024 19:09 | WG2297144 |
| Xylenes, Total | 0.00203 | J | 0.00110 | 0.00814 | 1 | 06/02/2024 19:09 | WG2297144 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/02/2024 19:09* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/02/2024 19:09* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *86.4* | | | *70.0-130* | | *06/02/2024 19:09* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 4.64 | | 0.820 | 4.48 | 1 | 06/04/2024 17:57 | WG2297499 |
| C22-C32 Hydrocarbons | 22.8 | | 1.49 | 4.48 | 1 | 06/04/2024 17:57 | WG2297499 |
| C32-C40 Hydrocarbons | 22.4 | | 1.49 | 4.48 | 1 | 06/04/2024 17:57 | WG2297499 |
| *(S) o-Terphenyl* | *46.5* | | | *18.0-148* | | *06/04/2024 17:57* | WG2297499 |

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.5 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.80 | B J | 1.13 | 3.40 | 25 | 05/31/2024 19:10 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.9* | | | *77.0-120* | | *05/31/2024 19:10* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0497 | 0.0680 | 1 | 06/02/2024 19:29 | WG2297144 |
| Acrylonitrile | U | | 0.00491 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| Benzene | U | | 0.000636 | 0.00136 | 1 | 06/02/2024 19:29 | WG2297144 |
| Bromobenzene | U | | 0.00122 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| Bromodichloromethane | U | | 0.000987 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Bromoform | U | | 0.00159 | 0.0340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Bromomethane | U | | 0.00268 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| n-Butylbenzene | U | | 0.00714 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| sec-Butylbenzene | U | | 0.00392 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| tert-Butylbenzene | U | | 0.00265 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| Carbon tetrachloride | U | | 0.00122 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| Chlorobenzene | U | | 0.000286 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Chlorodibromomethane | U | | 0.000833 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Chloroethane | U | | 0.00231 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| Chloroform | U | | 0.00140 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Chloromethane | U | | 0.00592 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00118 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000612 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00531 | 0.0340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000882 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Dibromomethane | U | | 0.00102 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000578 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000817 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.000953 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00219 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000668 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000883 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000825 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.000999 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00142 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00193 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00110 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000682 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00103 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00155 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00188 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Di-isopropyl ether | U | | 0.000558 | 0.00136 | 1 | 06/02/2024 19:29 | WG2297144 |
| Ethylbenzene | U | | 0.00100 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00817 | 0.0340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Isopropylbenzene | U | | 0.000578 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00347 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0864 | 0.136 | 1 | 06/02/2024 19:29 | WG2297144 |
| Methylene Chloride | U | | 0.00904 | 0.0340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00310 | 0.0340 | 1 | 06/02/2024 19:29 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000476 | 0.00136 | 1 | 06/02/2024 19:29 | WG2297144 |
| Naphthalene | U | | 0.00664 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| n-Propylbenzene | U | | 0.00129 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| Styrene | U | | 0.000312 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00129 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000946 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00103 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Tetrachloroethene | U | | 0.00122 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Toluene | U | | 0.00177 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.00998 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00599 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00126 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000812 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Trichloroethene | U | | 0.000795 | 0.00136 | 1 | 06/02/2024 19:29 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00113 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00220 | 0.0170 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2,4-Trimethylbenzene | U | | 0.00215 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,2,3-Trimethylbenzene | U | | 0.00215 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00272 | 0.00680 | 1 | 06/02/2024 19:29 | WG2297144 |
| Vinyl chloride | U | | 0.00158 | 0.00340 | 1 | 06/02/2024 19:29 | WG2297144 |
| Xylenes, Total | U | | 0.00120 | 0.00885 | 1 | 06/02/2024 19:29 | WG2297144 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/02/2024 19:29* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/02/2024 19:29* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *90.7* | | | *70.0-130* | | *06/02/2024 19:29* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.848 | 4.63 | 1 | 06/04/2024 16:47 | WG2297499 |
| C22-C32 Hydrocarbons | U | | 1.54 | 4.63 | 1 | 06/04/2024 16:47 | WG2297499 |
| C32-C40 Hydrocarbons | U | | 1.54 | 4.63 | 1 | 06/04/2024 16:47 | WG2297499 |
| *(S) o-Terphenyl* | *55.2* | | | *18.0-148* | | *06/04/2024 16:47* | WG2297499 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.0 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 4.42 | B | 1.35 | 4.08 | 25 | 05/31/2024 19:29 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* | | *05/31/2024 19:29* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0596 | 0.0816 | 1 | 06/02/2024 19:49 | WG2297144 |
| Acrylonitrile | U | | 0.00589 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| Benzene | 0.00151 | J | 0.000762 | 0.00163 | 1 | 06/02/2024 19:49 | WG2297144 |
| Bromobenzene | U | | 0.00147 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| Bromodichloromethane | U | | 0.00118 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Bromoform | U | | 0.00191 | 0.0408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Bromomethane | U | | 0.00321 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| n-Butylbenzene | U | | 0.00857 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| sec-Butylbenzene | U | | 0.00470 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| tert-Butylbenzene | U | | 0.00318 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| Carbon tetrachloride | U | | 0.00147 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| Chlorobenzene | U | | 0.000343 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Chlorodibromomethane | U | | 0.000999 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Chloroethane | U | | 0.00277 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| Chloroform | U | | 0.00168 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Chloromethane | U | | 0.00710 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00141 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000734 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00636 | 0.0408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Dibromomethane | U | | 0.00122 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000694 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000979 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.00114 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00263 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,1-Dichloroethane | 0.000992 | J | 0.000801 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.00106 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000989 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.00120 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00170 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00232 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00132 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000818 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00124 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00186 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00225 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Di-isopropyl ether | U | | 0.000669 | 0.00163 | 1 | 06/02/2024 19:49 | WG2297144 |
| Ethylbenzene | 0.00320 | J | 0.00120 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00979 | 0.0408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Isopropylbenzene | 0.00132 | J | 0.000694 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00416 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.104 | 0.163 | 1 | 06/02/2024 19:49 | WG2297144 |
| Methylene Chloride | U | | 0.0108 | 0.0408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00372 | 0.0408 | 1 | 06/02/2024 19:49 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000571 | 0.00163 | 1 | 06/02/2024 19:49 | WG2297144 |
| Naphthalene | 0.299 | | 0.0163 | 0.0418 | 2 | 06/04/2024 03:07 | WG2297492 |
| n-Propylbenzene | 0.00188 | J | 0.00155 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| Styrene | U | | 0.000374 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00155 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00113 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00123 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Tetrachloroethene | U | | 0.00146 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Toluene | 0.00796 | J | 0.00212 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.0120 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00718 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00151 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000974 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Trichloroethene | U | | 0.000953 | 0.00163 | 1 | 06/02/2024 19:49 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00135 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00264 | 0.0204 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2,4-Trimethylbenzene | 0.00591 | J | 0.00258 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,2,3-Trimethylbenzene | 0.00432 | J | 0.00258 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| 1,3,5-Trimethylbenzene | 0.00470 | J | 0.00326 | 0.00816 | 1 | 06/02/2024 19:49 | WG2297144 |
| Vinyl chloride | U | | 0.00189 | 0.00408 | 1 | 06/02/2024 19:49 | WG2297144 |
| Xylenes, Total | 0.00948 | J | 0.00144 | 0.0106 | 1 | 06/02/2024 19:49 | WG2297144 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/02/2024 19:49* | WG2297144 |
| *(S) Toluene-d8* | *98.9* | | | *75.0-131* | | *06/04/2024 03:07* | WG2297492 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *67.0-138* | | *06/02/2024 19:49* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/04/2024 03:07* | WG2297492 |
| *(S) 1,2-Dichloroethane-d4* | *89.1* | | | *70.0-130* | | *06/02/2024 19:49* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *89.4* | | | *70.0-130* | | *06/04/2024 03:07* | WG2297492 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 257 | J | 47.7 | 260 | 50 | 06/04/2024 21:12 | WG2297499 |
| C22-C32 Hydrocarbons | 456 | | 86.4 | 260 | 50 | 06/04/2024 21:12 | WG2297499 |
| C32-C40 Hydrocarbons | 311 | | 86.4 | 260 | 50 | 06/04/2024 21:12 | WG2297499 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *06/04/2024 21:12* | WG2297499 |

**Sample Narrative:**

L1740668-07 WG2297499: Cannot run at lower dilution due to viscosity of extract.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.8 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 97.2 | | 1.46 | 4.40 | 28.7 | 05/31/2024 19:49 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *05/31/2024 19:49* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.644 | 0.881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Acrylonitrile | U | | 0.0636 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Benzene | 0.0366 | | 0.00823 | 0.0176 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Bromobenzene | U | | 0.0159 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Bromodichloromethane | U | | 0.0128 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Bromoform | U | | 0.0207 | 0.441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Bromomethane | U | | 0.0348 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| n-Butylbenzene | 0.454 | | 0.0926 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| sec-Butylbenzene | 0.228 | | 0.0507 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| tert-Butylbenzene | 0.0388 | J | 0.0343 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Carbon tetrachloride | U | | 0.0158 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Chlorobenzene | U | | 0.00371 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Chlorodibromomethane | U | | 0.0108 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Chloroethane | U | | 0.0300 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Chloroform | U | | 0.0181 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Chloromethane | U | | 0.0766 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 2-Chlorotoluene | U | | 0.0152 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 4-Chlorotoluene | U | | 0.00794 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0688 | 0.441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.0114 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Dibromomethane | U | | 0.0132 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.00749 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.0106 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.0123 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.0283 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.00866 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.0114 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.0107 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.0129 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.0184 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.0250 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.0143 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.00883 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.0133 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.0201 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.0244 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Di-isopropyl ether | U | | 0.00723 | 0.0176 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Ethylbenzene | 0.207 | | 0.0130 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.106 | 0.441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Isopropylbenzene | 0.139 | | 0.00749 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| p-Isopropyltoluene | 0.357 | | 0.0449 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 2-Butanone (MEK) | U | | 1.12 | 1.76 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Methylene Chloride | U | | 0.117 | 0.441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0401 | 0.441 | 11.5 | 06/02/2024 20:09 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00618 | 0.0176 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Naphthalene | 2.68 | | 0.0860 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| n-Propylbenzene | 0.228 | | 0.0167 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Styrene | U | | 0.00403 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0167 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0122 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0133 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Tetrachloroethene | U | | 0.0158 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Toluene | 0.0616 | J | 0.0230 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.129 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.0775 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.0162 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.0105 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Trichloroethene | U | | 0.0103 | 0.0176 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Trichlorofluoromethane | U | | 0.0146 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.0285 | 0.221 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2,4-Trimethylbenzene | 0.512 | | 0.0279 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,2,3-Trimethylbenzene | 1.37 | | 0.0279 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| 1,3,5-Trimethylbenzene | 0.190 | | 0.0352 | 0.0881 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Vinyl chloride | U | | 0.0204 | 0.0441 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| Xylenes, Total | 0.294 | | 0.0155 | 0.115 | 11.5 | 06/02/2024 20:09 | WG2297144 |
| *(S) Toluene-d8* | *99.0* | | | *75.0-131* | | *06/02/2024 20:09* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/02/2024 20:09* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *93.3* | | | *70.0-130* | | *06/02/2024 20:09* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 7040 | | 94.2 | 514 | 100 | 06/04/2024 20:58 | WG2297499 |
| C22-C32 Hydrocarbons | 5040 | | 171 | 514 | 100 | 06/04/2024 20:58 | WG2297499 |
| C32-C40 Hydrocarbons | 2540 | | 171 | 514 | 100 | 06/04/2024 20:58 | WG2297499 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *06/04/2024 20:58* | WG2297499 |

**Sample Narrative:**

L1740668-08 WG2297499: Dilution due to matrix impact during concentration procedure. Surrogate failure due to matrix.

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 13.5 | J | 11.3 | 50.0 | 1 | 06/05/2024 10:22 | WG2298107 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/05/2024 10:22 | WG2298107 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/05/2024 10:22 | WG2298107 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Bromomethane | U | J4 | 0.605 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/05/2024 10:22 | WG2298107 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/05/2024 10:22 | WG2298107 |
| Methylene Chloride | 0.509 | J | 0.430 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/05/2024 10:22 | WG2298107 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/05/2024 10:22 | WG2298107 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *06/05/2024 10:22* | WG2298107 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *77.0-126* | | *06/05/2024 10:22* | WG2298107 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *06/05/2024 10:22* | WG2298107 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 06/03/2024 10:19 | WG2293966 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Arsenic | U | | 0.180 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Barium | U | | 0.381 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Chromium | U | | 1.24 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Copper | U | | 1.51 | 5.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Cobalt | U | | 0.0596 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Lead | U | | 0.849 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Molybdenum | U | | 0.348 | 5.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Nickel | U | | 0.816 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Selenium | U | | 0.300 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Vanadium | U | | 0.664 | 5.00 | 1 | 06/26/2024 18:16 | WG2298963 |
| Zinc | U | | 3.02 | 25.0 | 1 | 06/26/2024 18:16 | WG2298963 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 64.4 | B J | 30.4 | 100 | 1 | 06/02/2024 14:57 | WG2297105 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.5* | | | *78.0-120* | | *06/02/2024 14:57* | WG2297105 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/05/2024 11:05 | WG2298107 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/05/2024 11:05 | WG2298107 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/05/2024 11:05 | WG2298107 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Bromomethane | U | J4 | 0.605 | 5.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/05/2024 11:05 | WG2298107 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/05/2024 11:05 | WG2298107 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/05/2024 11:05 | WG2298107 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/05/2024 11:05 | WG2298107 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *06/05/2024 11:05* | WG2298107 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *77.0-126* | | *06/05/2024 11:05* | WG2298107 |
| *(S) 1,2-Dichloroethane-d4* | *112* | | | *70.0-130* | | *06/05/2024 11:05* | WG2298107 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 41.4 | B J | 33.0 | 100 | 1 | 05/31/2024 15:52 | WG2295250 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 15:52 | WG2295250 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 15:52 | WG2295250 |
| *(S) o-Terphenyl* | *63.2* | | | *52.0-156* | | *05/31/2024 15:52* | WG2295250 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.6 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.126 | | 0.0197 | 0.0437 | 1 | 05/31/2024 15:48 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 2.62 | | 0.594 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| Arsenic | 4.66 | | 0.566 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| Barium | 105 | | 0.0930 | 0.546 | 1 | 06/11/2024 15:22 | WG2298288 |
| Beryllium | 0.120 | J | 0.0344 | 0.218 | 1 | 06/11/2024 15:22 | WG2298288 |
| Cadmium | 0.360 | J | 0.0514 | 0.546 | 1 | 06/11/2024 15:22 | WG2298288 |
| Chromium | 21.6 | | 0.145 | 1.09 | 1 | 06/11/2024 15:22 | WG2298288 |
| Cobalt | 7.88 | | 0.0886 | 1.09 | 1 | 06/11/2024 15:22 | WG2298288 |
| Copper | 36.4 | | 0.437 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| Lead | 110 | | 0.227 | 0.546 | 1 | 06/11/2024 15:22 | WG2298288 |
| Molybdenum | 0.484 | J | 0.119 | 0.546 | 1 | 06/11/2024 15:22 | WG2298288 |
| Nickel | 28.2 | | 0.144 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| Selenium | U | | 0.834 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| Silver | 0.829 | J | 0.139 | 1.09 | 1 | 06/11/2024 15:22 | WG2298288 |
| Thallium | U | | 0.430 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| Vanadium | 24.6 | | 0.553 | 2.18 | 1 | 06/11/2024 15:22 | WG2298288 |
| Zinc | 90.0 | | 0.909 | 5.46 | 1 | 06/11/2024 15:22 | WG2298288 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.36 | J | 0.985 | 2.97 | 25 | 06/07/2024 07:49 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *06/07/2024 07:49* | WG2300368 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0129 | 0.0371 | 1 | 06/03/2024 17:36 | WG2297369 |
| PCB 1221 | U | | 0.0129 | 0.0371 | 1 | 06/03/2024 17:36 | WG2297369 |
| PCB 1232 | U | | 0.0129 | 0.0371 | 1 | 06/03/2024 17:36 | WG2297369 |
| PCB 1242 | U | | 0.0129 | 0.0371 | 1 | 06/03/2024 17:36 | WG2297369 |
| PCB 1248 | U | | 0.00806 | 0.0186 | 1 | 06/03/2024 17:36 | WG2297369 |
| PCB 1254 | U | | 0.00806 | 0.0186 | 1 | 06/03/2024 17:36 | WG2297369 |
| PCB 1260 | U | | 0.00806 | 0.0186 | 1 | 06/03/2024 17:36 | WG2297369 |
| *(S) Decachlorobiphenyl* | *56.4* | | | *10.0-135* | | *06/03/2024 17:36* | WG2297369 |
| *(S) Tetrachloro-m-xylene* | *69.2* | | | *10.0-139* | | *06/03/2024 17:36* | WG2297369 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.118 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Acenaphthylene | U | | 0.102 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Anthracene | U | | 0.130 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Benzidine | U | | 1.36 | 36.5 | 20 | 06/07/2024 03:37 | WG2299526 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | U | | 0.128 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Benzo(b)fluoranthene | U | | 0.135 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Benzo(k)fluoranthene | U | | 0.129 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Benzo(g,h,i)perylene | U | | 0.133 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Benzo(a)pyrene | U | | 0.135 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Bis(2-chlorethoxy)methane | U | | 0.218 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Bis(2-chloroethyl)ether | U | | 0.240 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.314 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 4-Bromophenyl-phenylether | U | | 0.256 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2-Chloronaphthalene | U | | 0.128 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| 4-Chlorophenyl-phenylether | U | | 0.253 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Chrysene | U | | 0.144 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Dibenz(a,h)anthracene | U | | 0.202 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| 1,2-Dichlorobenzene | U | | 0.215 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 1,3-Dichlorobenzene | U | | 0.221 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 1,4-Dichlorobenzene | U | | 0.216 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 3,3-Dichlorobenzidine | U | | 0.269 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2,4-Dinitrotoluene | U | | 0.209 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2,6-Dinitrotoluene | U | | 0.238 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Fluoranthene | U | | 0.131 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Fluorene | U | | 0.118 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Hexachlorobenzene | U | | 0.258 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Hexachloro-1,3-butadiene | U | | 0.245 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Hexachlorocyclopentadiene | U | | 0.382 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Hexachloroethane | U | | 0.286 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Indeno(1,2,3-cd)pyrene | U | | 0.205 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Isophorone | U | | 0.223 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Naphthalene | U | | 0.182 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Nitrobenzene | U | | 0.253 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| n-Nitrosodimethylamine | U | | 1.08 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| n-Nitrosodiphenylamine | U | | 0.550 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| n-Nitrosodi-n-propylamine | U | | 0.242 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Phenanthrene | U | | 0.144 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| Benzylbutyl phthalate | U | | 0.227 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Bis(2-ethylhexyl)phthalate | U | | 0.922 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Di-n-butyl phthalate | U | | 0.249 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Diethyl phthalate | U | | 0.240 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Dimethyl phthalate | U | | 1.54 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Di-n-octyl phthalate | U | | 0.491 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Pyrene | U | | 0.142 | 0.727 | 20 | 06/07/2024 03:37 | WG2299526 |
| 1,2,4-Trichlorobenzene | U | | 0.227 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 4-Chloro-3-methylphenol | U | | 0.236 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2-Chlorophenol | U | | 0.240 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2,4-Dichlorophenol | U | | 0.212 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2,4-Dimethylphenol | U | | 0.190 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 4,6-Dinitro-2-methylphenol | U | | 1.65 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2,4-Dinitrophenol | U | | 1.70 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2-Nitrophenol | U | | 0.260 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 4-Nitrophenol | U | | 0.227 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Pentachlorophenol | U | | 0.195 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| Phenol | U | | 0.293 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| 2,4,6-Trichlorophenol | U | | 0.234 | 7.27 | 20 | 06/07/2024 03:37 | WG2299526 |
| *(S) 2-Fluorophenol* | *83.7* | J7 | | *12.0-120* | | *06/07/2024 03:37* | WG2299526 |
| *(S) Phenol-d5* | *70.0* | J7 | | *10.0-120* | | *06/07/2024 03:37* | WG2299526 |
| *(S) Nitrobenzene-d5* | *74.9* | J7 | | *10.0-122* | | *06/07/2024 03:37* | WG2299526 |
| *(S) 2-Fluorobiphenyl* | *70.4* | J7 | | *15.0-120* | | *06/07/2024 03:37* | WG2299526 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) 2,4,6-Tribromophenol* | *73.5* | J7 | | *10.0-127* | | *06/07/2024 03:37* | WG2299526 |
| *(S) p-Terphenyl-d14* | *67.1* | J7 | | *10.0-120* | | *06/07/2024 03:37* | WG2299526 |

**Sample Narrative:**

L1740668-11 WG2299526: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.0 | | 1 | 05/30/2024 17:33 | WG2295630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0899 | | 0.0200 | 0.0444 | 1 | 05/31/2024 15:50 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.68 | J | 0.604 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| Arsenic | 5.43 | | 0.576 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| Barium | 159 | | 0.0947 | 0.556 | 1 | 06/11/2024 15:23 | WG2298288 |
| Beryllium | 0.264 | | 0.0350 | 0.222 | 1 | 06/11/2024 15:23 | WG2298288 |
| Cadmium | 0.539 | J | 0.0523 | 0.556 | 1 | 06/11/2024 15:23 | WG2298288 |
| Chromium | 26.8 | | 0.148 | 1.11 | 1 | 06/11/2024 15:23 | WG2298288 |
| Cobalt | 9.95 | | 0.0901 | 1.11 | 1 | 06/11/2024 15:23 | WG2298288 |
| Copper | 53.6 | | 0.444 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| Lead | 141 | | 0.231 | 0.556 | 1 | 06/11/2024 15:23 | WG2298288 |
| Molybdenum | 0.431 | J | 0.121 | 0.556 | 1 | 06/11/2024 15:23 | WG2298288 |
| Nickel | 31.1 | | 0.147 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| Selenium | U | | 0.849 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| Silver | 0.654 | J | 0.141 | 1.11 | 1 | 06/11/2024 15:23 | WG2298288 |
| Thallium | U | | 0.438 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| Vanadium | 33.1 | | 0.562 | 2.22 | 1 | 06/11/2024 15:23 | WG2298288 |
| Zinc | 141 | | 0.924 | 5.56 | 1 | 06/11/2024 15:23 | WG2298288 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.52 | J | 1.02 | 3.06 | 25 | 06/07/2024 08:13 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.7* | | | *77.0-120* | | *06/07/2024 08:13* | WG2300368 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0447 | 0.0612 | 1 | 06/02/2024 20:28 | WG2297144 |
| Acrylonitrile | U | | 0.00442 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| Benzene | U | | 0.000572 | 0.00122 | 1 | 06/02/2024 20:28 | WG2297144 |
| Bromobenzene | U | | 0.00110 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| Bromodichloromethane | U | | 0.000888 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Bromoform | U | | 0.00143 | 0.0306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Bromomethane | U | | 0.00241 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| n-Butylbenzene | U | | 0.00643 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| sec-Butylbenzene | U | | 0.00353 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| tert-Butylbenzene | U | | 0.00239 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| Carbon tetrachloride | U | | 0.00110 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| Chlorobenzene | U | | 0.000257 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Chlorodibromomethane | U | | 0.000749 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Chloroethane | U | | 0.00208 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| Chloroform | U | | 0.00126 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Chloromethane | U | | 0.00533 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00106 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000551 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00478 | 0.0306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000793 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Dibromomethane | U | | 0.000918 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000520 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000735 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.000857 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00197 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000601 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000795 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000742 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.000899 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00127 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00174 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.000991 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000613 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.000927 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00140 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00169 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Di-isopropyl ether | U | | 0.000502 | 0.00122 | 1 | 06/02/2024 20:28 | WG2297144 |
| Ethylbenzene | U | | 0.000902 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00735 | 0.0306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Isopropylbenzene | U | | 0.000520 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00312 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0778 | 0.122 | 1 | 06/02/2024 20:28 | WG2297144 |
| Methylene Chloride | U | | 0.00813 | 0.0306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00279 | 0.0306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Methyl tert-butyl ether | U | | 0.000429 | 0.00122 | 1 | 06/02/2024 20:28 | WG2297144 |
| Naphthalene | 0.0167 | | 0.00598 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| n-Propylbenzene | U | | 0.00116 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| Styrene | U | | 0.000280 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00116 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000851 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000923 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Tetrachloroethene | U | | 0.00110 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Toluene | U | | 0.00159 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.00898 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00539 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00113 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000731 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Trichloroethene | U | | 0.000715 | 0.00122 | 1 | 06/02/2024 20:28 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00101 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00198 | 0.0153 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2,4-Trimethylbenzene | U | | 0.00193 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,2,3-Trimethylbenzene | U | | 0.00193 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00245 | 0.00612 | 1 | 06/02/2024 20:28 | WG2297144 |
| Vinyl chloride | U | | 0.00142 | 0.00306 | 1 | 06/02/2024 20:28 | WG2297144 |
| Xylenes, Total | 0.00300 | J | 0.00108 | 0.00796 | 1 | 06/02/2024 20:28 | WG2297144 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/02/2024 20:28* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/02/2024 20:28* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *92.5* | | | *70.0-130* | | *06/02/2024 20:28* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 136 | J | 81.4 | 444 | 100 | 06/08/2024 11:21 | WG2301229 |
| C22-C32 Hydrocarbons | 922 | | 148 | 444 | 100 | 06/08/2024 11:21 | WG2301229 |
| C32-C40 Hydrocarbons | 1090 | | 148 | 444 | 100 | 06/08/2024 11:21 | WG2301229 |
| *(S) o-Terphenyl* | *123* | J7 | | *18.0-148* | | *06/08/2024 11:21* | WG2301229 |

Sample Narrative:

L1740668-12 WG2301229: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0599 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Acenaphthylene | U | | 0.0521 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Anthracene | U | | 0.0659 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Benzidine | U | | 0.696 | 18.6 | 10 | 06/07/2024 02:37 | WG2299526 |
| Benzo(a)anthracene | 0.211 | J | 0.0652 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Benzo(b)fluoranthene | 0.480 | | 0.0690 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Benzo(k)fluoranthene | 0.147 | J | 0.0658 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Benzo(g,h,i)perylene | 0.129 | J | 0.0677 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Benzo(a)pyrene | 0.257 | J | 0.0688 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Bis(2-chlorethoxy)methane | U | | 0.111 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Bis(2-chloroethyl)ether | U | | 0.122 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.160 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 4-Bromophenyl-phenylether | U | | 0.130 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2-Chloronaphthalene | U | | 0.0650 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| 4-Chlorophenyl-phenylether | U | | 0.129 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Chrysene | 0.330 | J | 0.0736 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Dibenz(a,h)anthracene | U | | 0.103 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| 1,2-Dichlorobenzene | U | | 0.110 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 1,3-Dichlorobenzene | U | | 0.112 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 1,4-Dichlorobenzene | U | | 0.110 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 3,3-Dichlorobenzidine | U | | 0.137 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2,4-Dinitrotoluene | U | | 0.106 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2,6-Dinitrotoluene | U | | 0.121 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Fluoranthene | 0.201 | J | 0.0668 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Fluorene | U | | 0.0602 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Hexachlorobenzene | U | | 0.131 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Hexachloro-1,3-butadiene | U | | 0.124 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Hexachlorocyclopentadiene | U | | 0.194 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Hexachloroethane | U | | 0.146 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Indeno(1,2,3-cd)pyrene | 0.131 | J | 0.105 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Isophorone | U | | 0.113 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Naphthalene | U | | 0.0929 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Nitrobenzene | U | | 0.129 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| n-Nitrosodimethylamine | U | | 0.549 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| n-Nitrosodiphenylamine | U | | 0.280 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| n-Nitrosodi-n-propylamine | U | | 0.123 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Phenanthrene | 0.0758 | J | 0.0734 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| Benzylbutyl phthalate | U | | 0.116 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Bis(2-ethylhexyl)phthalate | U | | 0.469 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Di-n-butyl phthalate | U | | 0.127 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Diethyl phthalate | U | | 0.122 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Dimethyl phthalate | U | | 0.784 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Di-n-octyl phthalate | U | | 0.250 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Pyrene | 0.269 | J | 0.0720 | 0.370 | 10 | 06/07/2024 02:37 | WG2299526 |
| 1,2,4-Trichlorobenzene | U | | 0.116 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.120 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2-Chlorophenol | U | | 0.122 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2,4-Dichlorophenol | U | | 0.108 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2,4-Dimethylphenol | U | | 0.0967 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 4,6-Dinitro-2-methylphenol | U | | 0.839 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2,4-Dinitrophenol | U | | 0.866 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2-Nitrophenol | U | | 0.132 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 4-Nitrophenol | U | | 0.116 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Pentachlorophenol | U | | 0.0996 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| Phenol | U | | 0.149 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| 2,4,6-Trichlorophenol | U | | 0.119 | 3.70 | 10 | 06/07/2024 02:37 | WG2299526 |
| *(S) 2-Fluorophenol* | *79.8* | | | *12.0-120* | | *06/07/2024 02:37* | WG2299526 |
| *(S) Phenol-d5* | *70.7* | | | *10.0-120* | | *06/07/2024 02:37* | WG2299526 |
| *(S) Nitrobenzene-d5* | *71.0* | | | *10.0-122* | | *06/07/2024 02:37* | WG2299526 |
| *(S) 2-Fluorobiphenyl* | *68.5* | | | *15.0-120* | | *06/07/2024 02:37* | WG2299526 |
| *(S) 2,4,6-Tribromophenol* | *75.5* | | | *10.0-127* | | *06/07/2024 02:37* | WG2299526 |
| *(S) p-Terphenyl-d14* | *72.9* | | | *10.0-120* | | *06/07/2024 02:37* | WG2299526 |

**Sample Narrative:**

L1740668-12 WG2299526: Dilution due to matrix impact during extract concentration procedure.

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.6 | | 1 | 05/31/2024 07:38 | WG2295888 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.173 | | 0.0215 | 0.0479 | 1 | 05/31/2024 16:16 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 3.15 | | 0.651 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| Arsenic | 8.83 | | 0.620 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| Barium | 183 | | 0.102 | 0.598 | 1 | 06/11/2024 15:25 | WG2298288 |
| Beryllium | 0.318 | | 0.0377 | 0.239 | 1 | 06/11/2024 15:25 | WG2298288 |
| Cadmium | 0.617 | | 0.0564 | 0.598 | 1 | 06/11/2024 15:25 | WG2298288 |
| Chromium | 31.3 | | 0.159 | 1.20 | 1 | 06/11/2024 15:25 | WG2298288 |
| Cobalt | 10.8 | | 0.0971 | 1.20 | 1 | 06/11/2024 15:25 | WG2298288 |
| Copper | 64.7 | | 0.479 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| Lead | 103 | | 0.249 | 0.598 | 1 | 06/11/2024 15:25 | WG2298288 |
| Molybdenum | 0.931 | | 0.130 | 0.598 | 1 | 06/11/2024 15:25 | WG2298288 |
| Nickel | 44.1 | | 0.158 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| Selenium | U | | 0.914 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| Silver | 0.357 | J | 0.152 | 1.20 | 1 | 06/11/2024 15:25 | WG2298288 |
| Thallium | U | | 0.472 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| Vanadium | 40.0 | | 0.606 | 2.39 | 1 | 06/11/2024 15:25 | WG2298288 |
| Zinc | 156 | | 0.996 | 5.98 | 1 | 06/11/2024 15:25 | WG2298288 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 13.1 | | 1.18 | 3.54 | 25 | 05/31/2024 20:08 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *05/31/2024 20:08* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.414 | 0.567 | 8 | 06/03/2024 00:14 | WG2297144 |
| Acrylonitrile | U | | 0.0410 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| Benzene | U | | 0.00530 | 0.0113 | 8 | 06/03/2024 00:14 | WG2297144 |
| Bromobenzene | U | | 0.0102 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| Bromodichloromethane | U | | 0.00822 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Bromoform | U | | 0.0133 | 0.284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Bromomethane | U | | 0.0224 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| n-Butylbenzene | U | | 0.0595 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| sec-Butylbenzene | U | | 0.0326 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| tert-Butylbenzene | U | | 0.0221 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| Carbon tetrachloride | U | | 0.0102 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| Chlorobenzene | U | | 0.00238 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Chlorodibromomethane | U | | 0.00695 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Chloroethane | U | | 0.0193 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| Chloroform | U | | 0.0117 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Chloromethane | U | | 0.0493 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00981 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 4-Chlorotoluene | U | | 0.00510 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.0442 | 0.284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.00734 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Dibromomethane | U | | 0.00851 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.00482 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.00680 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.00794 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.0183 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.00557 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.00736 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.00688 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.00832 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.0118 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.0162 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00917 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.00568 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00859 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.0129 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.0156 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Di-isopropyl ether | U | | 0.00465 | 0.0113 | 8 | 06/03/2024 00:14 | WG2297144 |
| Ethylbenzene | U | | 0.00836 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.0680 | 0.284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Isopropylbenzene | U | | 0.00482 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| p-Isopropyltoluene | U | | 0.0289 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.720 | 1.13 | 8 | 06/03/2024 00:14 | WG2297144 |
| Methylene Chloride | U | | 0.0753 | 0.284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0258 | 0.284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Methyl tert-butyl ether | U | | 0.00397 | 0.0113 | 8 | 06/03/2024 00:14 | WG2297144 |
| Naphthalene | U | | 0.0553 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| n-Propylbenzene | U | | 0.0108 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| Styrene | U | | 0.00259 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0107 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00788 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00855 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Tetrachloroethene | U | | 0.0102 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Toluene | U | | 0.0147 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.0831 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.0499 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.0105 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.00678 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Trichloroethene | U | | 0.00662 | 0.0113 | 8 | 06/03/2024 00:14 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00938 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.0184 | 0.142 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2,4-Trimethylbenzene | U | | 0.0179 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,2,3-Trimethylbenzene | U | | 0.0179 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.0227 | 0.0567 | 8 | 06/03/2024 00:14 | WG2297144 |
| Vinyl chloride | U | | 0.0132 | 0.0284 | 8 | 06/03/2024 00:14 | WG2297144 |
| Xylenes, Total | U | | 0.00998 | 0.0737 | 8 | 06/03/2024 00:14 | WG2297144 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/03/2024 00:14* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/03/2024 00:14* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *92.3* | | | *70.0-130* | | *06/03/2024 00:14* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 553 | | 8.77 | 47.9 | 10 | 06/04/2024 20:02 | WG2297499 |
| C22-C32 Hydrocarbons | 700 | | 15.9 | 47.9 | 10 | 06/04/2024 20:02 | WG2297499 |
| C32-C40 Hydrocarbons | 389 | | 15.9 | 47.9 | 10 | 06/04/2024 20:02 | WG2297499 |
| *(S) o-Terphenyl* | *79.6* | | | *18.0-148* | | *06/04/2024 20:02* | WG2297499 |

Sample Narrative:

L1740668-13 WG2297499: Dilution due to matrix impact during extract concentration procedure.

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0645 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Acenaphthylene | U | | 0.0561 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Anthracene | U | | 0.0710 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Benzidine | U | | 0.749 | 20.0 | 10 | 06/06/2024 19:03 | WG2299526 |
| Benzo(a)anthracene | 0.403 | | 0.0703 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Benzo(b)fluoranthene | 0.706 | | 0.0743 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Benzo(k)fluoranthene | 0.250 | J | 0.0709 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Benzo(g,h,i)perylene | 0.354 | J | 0.0729 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Benzo(a)pyrene | 0.522 | | 0.0741 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Bis(2-chlorethoxy)methane | U | | 0.120 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Bis(2-chloroethyl)ether | U | | 0.132 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.172 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 4-Bromophenyl-phenylether | U | | 0.140 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2-Chloronaphthalene | U | | 0.0700 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| 4-Chlorophenyl-phenylether | U | | 0.139 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Chrysene | 0.567 | | 0.0792 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Dibenz(a,h)anthracene | U | | 0.110 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| 1,2-Dichlorobenzene | U | | 0.118 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 1,3-Dichlorobenzene | U | | 0.121 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 1,4-Dichlorobenzene | U | | 0.119 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 3,3-Dichlorobenzidine | U | | 0.147 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2,4-Dinitrotoluene | U | | 0.114 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2,6-Dinitrotoluene | U | | 0.130 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Fluoranthene | 0.389 | J | 0.0719 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Fluorene | U | | 0.0649 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Hexachlorobenzene | U | | 0.141 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Hexachloro-1,3-butadiene | U | | 0.134 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Hexachlorocyclopentadiene | U | | 0.209 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Hexachloroethane | U | | 0.157 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Indeno(1,2,3-cd)pyrene | 0.304 | J | 0.113 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Isophorone | U | | 0.122 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Naphthalene | U | | 0.100 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Nitrobenzene | U | | 0.139 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| n-Nitrosodimethylamine | U | | 0.591 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| n-Nitrosodiphenylamine | U | | 0.302 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| n-Nitrosodi-n-propylamine | U | | 0.133 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Phenanthrene | 0.190 | J | 0.0791 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| Benzylbutyl phthalate | U | | 0.124 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Bis(2-ethylhexyl)phthalate | U | | 0.505 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Di-n-butyl phthalate | U | | 0.136 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Diethyl phthalate | U | | 0.132 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Dimethyl phthalate | U | | 0.845 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Di-n-octyl phthalate | U | | 0.269 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Pyrene | 0.622 | | 0.0776 | 0.399 | 10 | 06/06/2024 19:03 | WG2299526 |
| 1,2,4-Trichlorobenzene | U | | 0.124 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.129 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2-Chlorophenol | U | | 0.132 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2,4-Dichlorophenol | U | | 0.116 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2,4-Dimethylphenol | U | | 0.104 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 4,6-Dinitro-2-methylphenol | U | | 0.904 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2,4-Dinitrophenol | U | | 0.932 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2-Nitrophenol | U | | 0.142 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 4-Nitrophenol | U | | 0.124 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Pentachlorophenol | U | | 0.107 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| Phenol | U | | 0.160 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| 2,4,6-Trichlorophenol | U | | 0.128 | 3.99 | 10 | 06/06/2024 19:03 | WG2299526 |
| *(S) 2-Fluorophenol* | *65.3* | | | *12.0-120* | | *06/06/2024 19:03* | WG2299526 |
| *(S) Phenol-d5* | *61.0* | | | *10.0-120* | | *06/06/2024 19:03* | WG2299526 |
| *(S) Nitrobenzene-d5* | *53.3* | | | *10.0-122* | | *06/06/2024 19:03* | WG2299526 |
| *(S) 2-Fluorobiphenyl* | *70.9* | | | *15.0-120* | | *06/06/2024 19:03* | WG2299526 |
| *(S) 2,4,6-Tribromophenol* | *50.0* | | | *10.0-127* | | *06/06/2024 19:03* | WG2299526 |
| *(S) p-Terphenyl-d14* | *70.3* | | | *10.0-120* | | *06/06/2024 19:03* | WG2299526 |

**Sample Narrative:**

L1740668-13 WG2299526: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.6 | | 1 | 06/07/2024 12:45 | WG2300491 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 6.68 | | 1.19 | 3.58 | 25 | 06/07/2024 18:58 | WG2300843 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/07/2024 18:58* | WG2300843 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 388 | | 8.77 | 47.9 | 10 | 06/08/2024 10:54 | WG2301229 |
| C22-C32 Hydrocarbons | 743 | | 15.9 | 47.9 | 10 | 06/08/2024 10:54 | WG2301229 |
| C32-C40 Hydrocarbons | 675 | | 15.9 | 47.9 | 10 | 06/08/2024 10:54 | WG2301229 |
| *(S) o-Terphenyl* | *79.4* | | | *18.0-148* | | *06/08/2024 10:54* | WG2301229 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.7 | | 1 | 05/31/2024 07:38 | WG2295888 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 5.42 | B | 1.13 | 3.41 | 25 | 05/31/2024 20:27 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.1* | | | *77.0-120* | | *05/31/2024 20:27* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0497 | 0.0681 | 1 | 06/02/2024 21:25 | WG2297144 |
| Acrylonitrile | U | | 0.00492 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| Benzene | 0.000753 | J | 0.000636 | 0.00136 | 1 | 06/02/2024 21:25 | WG2297144 |
| Bromobenzene | U | | 0.00123 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| Bromodichloromethane | U | | 0.000988 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Bromoform | U | | 0.00159 | 0.0341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Bromomethane | U | | 0.00268 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| n-Butylbenzene | U | | 0.00715 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| sec-Butylbenzene | U | | 0.00392 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| tert-Butylbenzene | U | | 0.00266 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| Carbon tetrachloride | U | | 0.00122 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| Chlorobenzene | 0.00962 | | 0.000286 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Chlorodibromomethane | U | | 0.000834 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Chloroethane | U | | 0.00232 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| Chloroform | U | | 0.00140 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Chloromethane | U | | 0.00593 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00118 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000613 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00531 | 0.0341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000883 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Dibromomethane | U | | 0.00102 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000579 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000818 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.000954 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00219 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000669 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000884 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000826 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| cis-1,2-Dichloroethene | 0.00144 | J | 0.00100 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00142 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00193 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00110 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000683 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00103 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00155 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00188 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Di-isopropyl ether | U | | 0.000559 | 0.00136 | 1 | 06/02/2024 21:25 | WG2297144 |
| Ethylbenzene | U | | 0.00100 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00818 | 0.0341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Isopropylbenzene | U | | 0.000579 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00347 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0865 | 0.136 | 1 | 06/02/2024 21:25 | WG2297144 |
| Methylene Chloride | U | | 0.00905 | 0.0341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00311 | 0.0341 | 1 | 06/02/2024 21:25 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000477 | 0.00136 | 1 | 06/02/2024 21:25 | WG2297144 |
| Naphthalene | 0.00813 | J | 0.00665 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| n-Propylbenzene | U | | 0.00129 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| Styrene | U | | 0.000312 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00129 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000947 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00103 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Tetrachloroethene | U | | 0.00122 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Toluene | 0.00281 | J | 0.00177 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.00999 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00600 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00126 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000813 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Trichloroethene | 0.00119 | J | 0.000796 | 0.00136 | 1 | 06/02/2024 21:25 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00113 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00221 | 0.0170 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2,4-Trimethylbenzene | 0.00309 | J | 0.00215 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,2,3-Trimethylbenzene | 0.00232 | J | 0.00215 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00273 | 0.00681 | 1 | 06/02/2024 21:25 | WG2297144 |
| Vinyl chloride | U | | 0.00158 | 0.00341 | 1 | 06/02/2024 21:25 | WG2297144 |
| Xylenes, Total | 0.00527 | J | 0.00120 | 0.00886 | 1 | 06/02/2024 21:25 | WG2297144 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/02/2024 21:25* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *67.0-138* | | *06/02/2024 21:25* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *83.9* | | | *70.0-130* | | *06/02/2024 21:25* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 404 | | 17.2 | 93.3 | 20 | 06/04/2024 20:30 | WG2297499 |
| C22-C32 Hydrocarbons | 880 | | 31.0 | 93.3 | 20 | 06/04/2024 20:30 | WG2297499 |
| C32-C40 Hydrocarbons | 505 | | 31.0 | 93.3 | 20 | 06/04/2024 20:30 | WG2297499 |
| *(S) o-Terphenyl* | *110* | J7 | | *18.0-148* | | *06/04/2024 20:30* | WG2297499 |

**Sample Narrative:**

L1740668-15 WG2297499: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.4 | | 1 | 05/31/2024 07:38 | WG2295888 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.101 | | 0.0199 | 0.0442 | 1 | 05/31/2024 16:19 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.68 | J | 0.602 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| Arsenic | 3.25 | | 0.573 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| Barium | 140 | | 0.0942 | 0.553 | 1 | 06/11/2024 15:27 | WG2298288 |
| Beryllium | 0.145 | J | 0.0348 | 0.221 | 1 | 06/11/2024 15:27 | WG2298288 |
| Cadmium | 0.681 | | 0.0521 | 0.553 | 1 | 06/11/2024 15:27 | WG2298288 |
| Chromium | 29.3 | | 0.147 | 1.11 | 1 | 06/11/2024 15:27 | WG2298288 |
| Cobalt | 12.3 | | 0.0897 | 1.11 | 1 | 06/11/2024 15:27 | WG2298288 |
| Copper | 64.5 | | 0.442 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| Lead | 200 | | 0.230 | 0.553 | 1 | 06/11/2024 15:27 | WG2298288 |
| Molybdenum | 0.549 | J | 0.121 | 0.553 | 1 | 06/11/2024 15:27 | WG2298288 |
| Nickel | 38.5 | | 0.146 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| Selenium | U | | 0.845 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| Silver | 0.492 | J | 0.140 | 1.11 | 1 | 06/11/2024 15:27 | WG2298288 |
| Thallium | U | | 0.436 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| Vanadium | 30.7 | | 0.560 | 2.21 | 1 | 06/11/2024 15:27 | WG2298288 |
| Zinc | 176 | | 0.920 | 5.53 | 1 | 06/11/2024 15:27 | WG2298288 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0131 | 0.0376 | 1 | 06/03/2024 18:04 | WG2297376 |
| PCB 1221 | U | | 0.0131 | 0.0376 | 1 | 06/03/2024 18:04 | WG2297376 |
| PCB 1232 | U | | 0.0131 | 0.0376 | 1 | 06/03/2024 18:04 | WG2297376 |
| PCB 1242 | U | | 0.0131 | 0.0376 | 1 | 06/03/2024 18:04 | WG2297376 |
| PCB 1248 | U | | 0.00816 | 0.0188 | 1 | 06/03/2024 18:04 | WG2297376 |
| PCB 1254 | U | | 0.00816 | 0.0188 | 1 | 06/03/2024 18:04 | WG2297376 |
| PCB 1260 | 0.0350 | | 0.00816 | 0.0188 | 1 | 06/04/2024 13:36 | WG2297376 |
| *(S) Decachlorobiphenyl* | *89.6* | | | *10.0-135* | | *06/03/2024 18:04* | WG2297376 |
| *(S) Decachlorobiphenyl* | *70.6* | | | *10.0-135* | | *06/04/2024 13:36* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *79.9* | | | *10.0-139* | | *06/04/2024 13:36* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *87.3* | | | *10.0-139* | | *06/03/2024 18:04* | WG2297376 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0596 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Acenaphthylene | U | | 0.0519 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Anthracene | U | | 0.0656 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Benzidine | U | | 0.692 | 18.5 | 10 | 06/07/2024 02:57 | WG2299526 |
| Benzo(a)anthracene | U | | 0.0649 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Benzo(b)fluoranthene | 0.101 | J | 0.0687 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Benzo(k)fluoranthene | U | | 0.0655 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Benzo(g,h,i)perylene | U | | 0.0674 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Benzo(a)pyrene | 0.0764 | J | 0.0685 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.111 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Bis(2-chloroethyl)ether | U | | 0.122 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.159 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 4-Bromophenyl-phenylether | U | | 0.129 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2-Chloronaphthalene | U | | 0.0647 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| 4-Chlorophenyl-phenylether | U | | 0.128 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Chrysene | U | | 0.0732 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Dibenz(a,h)anthracene | U | | 0.102 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| 1,2-Dichlorobenzene | U | | 0.109 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 1,3-Dichlorobenzene | U | | 0.112 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 1,4-Dichlorobenzene | U | | 0.110 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 3,3-Dichlorobenzidine | U | | 0.136 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2,4-Dinitrotoluene | U | | 0.106 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2,6-Dinitrotoluene | U | | 0.121 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Fluoranthene | U | | 0.0665 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Fluorene | U | | 0.0599 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Hexachlorobenzene | U | | 0.131 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Hexachloro-1,3-butadiene | U | | 0.124 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Hexachlorocyclopentadiene | U | | 0.194 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Hexachloroethane | U | | 0.145 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Indeno(1,2,3-cd)pyrene | U | | 0.104 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Isophorone | U | | 0.113 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Naphthalene | U | | 0.0925 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Nitrobenzene | U | | 0.128 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| n-Nitrosodimethylamine | U | | 0.546 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| n-Nitrosodiphenylamine | U | | 0.279 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| n-Nitrosodi-n-propylamine | U | | 0.123 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Phenanthrene | U | | 0.0731 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| Benzylbutyl phthalate | U | | 0.115 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Bis(2-ethylhexyl)phthalate | U | | 0.467 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Di-n-butyl phthalate | U | | 0.126 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Diethyl phthalate | U | | 0.122 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Dimethyl phthalate | U | | 0.781 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Di-n-octyl phthalate | U | | 0.249 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Pyrene | U | | 0.0717 | 0.368 | 10 | 06/07/2024 02:57 | WG2299526 |
| 1,2,4-Trichlorobenzene | U | | 0.115 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 4-Chloro-3-methylphenol | U | | 0.119 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2-Chlorophenol | U | | 0.122 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2,4-Dichlorophenol | U | | 0.107 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2,4-Dimethylphenol | U | | 0.0962 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 4,6-Dinitro-2-methylphenol | U | | 0.835 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2,4-Dinitrophenol | U | | 0.862 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2-Nitrophenol | U | | 0.132 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 4-Nitrophenol | U | | 0.115 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Pentachlorophenol | U | | 0.0991 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| Phenol | U | | 0.148 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| 2,4,6-Trichlorophenol | U | | 0.118 | 3.68 | 10 | 06/07/2024 02:57 | WG2299526 |
| *(S) 2-Fluorophenol* | *90.2* | | | *12.0-120* | | *06/07/2024 02:57* | WG2299526 |
| *(S) Phenol-d5* | *73.5* | | | *10.0-120* | | *06/07/2024 02:57* | WG2299526 |
| *(S) Nitrobenzene-d5* | *68.3* | | | *10.0-122* | | *06/07/2024 02:57* | WG2299526 |
| *(S) 2-Fluorobiphenyl* | *71.3* | | | *15.0-120* | | *06/07/2024 02:57* | WG2299526 |
| *(S) 2,4,6-Tribromophenol* | *79.1* | | | *10.0-127* | | *06/07/2024 02:57* | WG2299526 |
| *(S) p-Terphenyl-d14* | *70.7* | | | *10.0-120* | | *06/07/2024 02:57* | WG2299526 |

**Sample Narrative:**

L1740668-16 WG2299526: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 90.9 | | 1 | 05/31/2024 07:38 | WG2295888 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.136 | | 0.0198 | 0.0440 | 1 | 05/31/2024 16:24 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 2.32 | | 0.598 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| Arsenic | 3.87 | | 0.570 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| Barium | 233 | | 0.0937 | 0.550 | 1 | 06/11/2024 15:28 | WG2298288 |
| Beryllium | 0.244 | | 0.0346 | 0.220 | 1 | 06/11/2024 15:28 | WG2298288 |
| Cadmium | 0.427 | J | 0.0518 | 0.550 | 1 | 06/11/2024 15:28 | WG2298288 |
| Chromium | 24.2 | | 0.146 | 1.10 | 1 | 06/11/2024 15:28 | WG2298288 |
| Cobalt | 10.0 | | 0.0892 | 1.10 | 1 | 06/11/2024 15:28 | WG2298288 |
| Copper | 121 | | 0.440 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| Lead | 178 | | 0.229 | 0.550 | 1 | 06/11/2024 15:28 | WG2298288 |
| Molybdenum | 0.509 | J | 0.120 | 0.550 | 1 | 06/11/2024 15:28 | WG2298288 |
| Nickel | 23.1 | | 0.145 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| Selenium | U | | 0.840 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| Silver | 0.389 | J | 0.140 | 1.10 | 1 | 06/11/2024 15:28 | WG2298288 |
| Thallium | U | | 0.433 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| Vanadium | 29.8 | | 0.556 | 2.20 | 1 | 06/11/2024 15:28 | WG2298288 |
| Zinc | 173 | | 0.915 | 5.50 | 1 | 06/11/2024 15:28 | WG2298288 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0444 | 0.0608 | 1 | 06/02/2024 22:16 | WG2297144 |
| Acrylonitrile | U | | 0.00439 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| Benzene | 0.00193 | | 0.000568 | 0.00122 | 1 | 06/02/2024 22:16 | WG2297144 |
| Bromobenzene | U | | 0.00109 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| Bromodichloromethane | U | | 0.000882 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Bromoform | U | | 0.00142 | 0.0304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Bromomethane | U | | 0.00240 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| n-Butylbenzene | U | | 0.00639 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| sec-Butylbenzene | U | | 0.00350 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| tert-Butylbenzene | U | | 0.00237 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| Carbon tetrachloride | U | | 0.00109 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| Chlorobenzene | U | | 0.000255 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Chlorodibromomethane | U | | 0.000744 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Chloroethane | U | | 0.00207 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| Chloroform | U | | 0.00125 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Chloromethane | U | | 0.00529 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00105 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000547 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00474 | 0.0304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000788 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Dibromomethane | U | | 0.000912 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000517 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000730 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,4-Dichlorobenzene | 0.000905 | J | 0.000851 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00196 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000597 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000789 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000737 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.000893 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00126 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00173 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.000984 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000609 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.000921 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00139 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00168 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Di-isopropyl ether | U | | 0.000499 | 0.00122 | 1 | 06/02/2024 22:16 | WG2297144 |
| Ethylbenzene | 0.000956 | J | 0.000896 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00730 | 0.0304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Isopropylbenzene | U | | 0.000517 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00310 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0772 | 0.122 | 1 | 06/02/2024 22:16 | WG2297144 |
| Methylene Chloride | U | | 0.00808 | 0.0304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00277 | 0.0304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Methyl tert-butyl ether | U | | 0.000426 | 0.00122 | 1 | 06/02/2024 22:16 | WG2297144 |
| Naphthalene | 0.0221 | | 0.00594 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| n-Propylbenzene | U | | 0.00116 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| Styrene | U | | 0.000279 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00115 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000845 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000917 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Tetrachloroethene | U | | 0.00109 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Toluene | 0.00225 | J | 0.00158 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.00892 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00535 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00112 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000726 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Trichloroethene | U | | 0.000710 | 0.00122 | 1 | 06/02/2024 22:16 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00101 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00197 | 0.0152 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2,4-Trimethylbenzene | 0.00294 | J | 0.00192 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,2,3-Trimethylbenzene | 0.00255 | J | 0.00192 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00243 | 0.00608 | 1 | 06/02/2024 22:16 | WG2297144 |
| Vinyl chloride | U | | 0.00141 | 0.00304 | 1 | 06/02/2024 22:16 | WG2297144 |
| Xylenes, Total | 0.00692 | J | 0.00107 | 0.00791 | 1 | 06/02/2024 22:16 | WG2297144 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/02/2024 22:16* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/02/2024 22:16* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *91.7* | | | *70.0-130* | | *06/02/2024 22:16* | WG2297144 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0130 | 0.0374 | 1 | 06/13/2024 21:47 | WG2304133 |
| PCB 1221 | U | | 0.0130 | 0.0374 | 1 | 06/13/2024 21:47 | WG2304133 |
| PCB 1232 | U | | 0.0130 | 0.0374 | 1 | 06/13/2024 21:47 | WG2304133 |
| PCB 1242 | U | | 0.0130 | 0.0374 | 1 | 06/13/2024 21:47 | WG2304133 |
| PCB 1248 | U | | 0.00811 | 0.0187 | 1 | 06/13/2024 21:47 | WG2304133 |
| PCB 1254 | U | | 0.00811 | 0.0187 | 1 | 06/13/2024 21:47 | WG2304133 |
| PCB 1260 | U | | 0.00811 | 0.0187 | 1 | 06/13/2024 21:47 | WG2304133 |
| *(S) Decachlorobiphenyl* | *67.5* | | | *10.0-135* | | *06/13/2024 21:47* | WG2304133 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *79.2* | | | *10.0-139* | | *06/13/2024 21:47* | WG2304133 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0119 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Acenaphthylene | U | | 0.0103 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Anthracene | 0.0270 | J | 0.0131 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Benzidine | U | | 0.137 | 3.67 | 2 | 06/07/2024 02:17 | WG2299526 |
| Benzo(a)anthracene | 0.460 | | 0.0129 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Benzo(b)fluoranthene | 1.02 | | 0.0136 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Benzo(k)fluoranthene | 0.290 | | 0.0130 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Benzo(g,h,i)perylene | 0.234 | | 0.0134 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Benzo(a)pyrene | 0.565 | | 0.0136 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Bis(2-chlorethoxy)methane | U | | 0.0220 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Bis(2-chloroethyl)ether | U | | 0.0242 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0317 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 4-Bromophenyl-phenylether | U | | 0.0257 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2-Chloronaphthalene | U | | 0.0129 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 4-Chlorophenyl-phenylether | U | | 0.0255 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Chrysene | 0.747 | | 0.0145 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Dibenz(a,h)anthracene | 0.0954 | | 0.0203 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 1,2-Dichlorobenzene | U | | 0.0217 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 1,3-Dichlorobenzene | U | | 0.0222 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 1,4-Dichlorobenzene | U | | 0.0218 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 3,3-Dichlorobenzidine | U | | 0.0270 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2,4-Dinitrotoluene | U | | 0.0210 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2,6-Dinitrotoluene | U | | 0.0240 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Fluoranthene | 0.454 | | 0.0132 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Fluorene | U | | 0.0119 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Hexachlorobenzene | U | | 0.0259 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Hexachloro-1,3-butadiene | U | | 0.0246 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Hexachlorocyclopentadiene | U | | 0.0385 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Hexachloroethane | U | | 0.0288 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Indeno(1,2,3-cd)pyrene | 0.269 | | 0.0207 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Isophorone | U | | 0.0224 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Naphthalene | 0.0199 | J | 0.0184 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Nitrobenzene | U | | 0.0255 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| n-Nitrosodimethylamine | U | | 0.109 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| n-Nitrosodiphenylamine | U | | 0.0554 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| n-Nitrosodi-n-propylamine | U | | 0.0244 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Phenanthrene | 0.112 | | 0.0145 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Benzylbutyl phthalate | U | | 0.0229 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0928 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Di-n-butyl phthalate | U | | 0.0251 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Diethyl phthalate | U | | 0.0242 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Dimethyl phthalate | U | | 0.155 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Di-n-octyl phthalate | U | | 0.0495 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Pyrene | 0.500 | | 0.0143 | 0.0732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 1,2,4-Trichlorobenzene | U | | 0.0229 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 4-Chloro-3-methylphenol | U | | 0.0237 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2-Chlorophenol | U | | 0.0242 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2,4-Dichlorophenol | U | | 0.0213 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2,4-Dimethylphenol | U | | 0.0191 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 4,6-Dinitro-2-methylphenol | U | | 0.166 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2,4-Dinitrophenol | U | | 0.172 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0262 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 4-Nitrophenol | U | | 0.0229 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Pentachlorophenol | U | | 0.0197 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| Phenol | U | | 0.0295 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| 2,4,6-Trichlorophenol | U | | 0.0235 | 0.732 | 2 | 06/07/2024 02:17 | WG2299526 |
| *(S) 2-Fluorophenol* | *66.2* | | | *12.0-120* | | *06/07/2024 02:17* | WG2299526 |
| *(S) Phenol-d5* | *61.0* | | | *10.0-120* | | *06/07/2024 02:17* | WG2299526 |
| *(S) Nitrobenzene-d5* | *57.7* | | | *10.0-122* | | *06/07/2024 02:17* | WG2299526 |
| *(S) 2-Fluorobiphenyl* | *65.6* | | | *15.0-120* | | *06/07/2024 02:17* | WG2299526 |
| *(S) 2,4,6-Tribromophenol* | *84.3* | | | *10.0-127* | | *06/07/2024 02:17* | WG2299526 |
| *(S) p-Terphenyl-d14* | *68.3* | | | *10.0-120* | | *06/07/2024 02:17* | WG2299526 |

**Sample Narrative:**

L1740668-17 WG2299526: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.9 | | 1 | 05/31/2024 07:38 | WG2295888 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0771 | | 0.0198 | 0.0440 | 1 | 05/31/2024 16:27 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 3.74 | | 0.599 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| Arsenic | 4.70 | | 0.570 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| Barium | 131 | | 0.0937 | 0.550 | 1 | 06/11/2024 15:30 | WG2298288 |
| Beryllium | 0.215 | J | 0.0347 | 0.220 | 1 | 06/11/2024 15:30 | WG2298288 |
| Cadmium | 0.174 | J | 0.0518 | 0.550 | 1 | 06/11/2024 15:30 | WG2298288 |
| Chromium | 15.7 | | 0.146 | 1.10 | 1 | 06/11/2024 15:30 | WG2298288 |
| Cobalt | 11.7 | | 0.0892 | 1.10 | 1 | 06/11/2024 15:30 | WG2298288 |
| Copper | 34.9 | | 0.440 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| Lead | 33.8 | | 0.229 | 0.550 | 1 | 06/11/2024 15:30 | WG2298288 |
| Molybdenum | 0.732 | | 0.120 | 0.550 | 1 | 06/11/2024 15:30 | WG2298288 |
| Nickel | 22.1 | | 0.145 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| Selenium | U | | 0.841 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| Silver | 0.179 | J | 0.140 | 1.10 | 1 | 06/11/2024 15:30 | WG2298288 |
| Thallium | U | | 0.434 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| Vanadium | 42.4 | | 0.557 | 2.20 | 1 | 06/11/2024 15:30 | WG2298288 |
| Zinc | 83.4 | | 0.915 | 5.50 | 1 | 06/11/2024 15:30 | WG2298288 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.52 | B J | 0.997 | 3.00 | 25 | 05/31/2024 20:47 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.1* | | | *77.0-120* | | *05/31/2024 20:47* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0438 | 0.0600 | 1 | 06/02/2024 22:35 | WG2297144 |
| Acrylonitrile | U | | 0.00433 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| Benzene | 0.000841 | J | 0.000561 | 0.00120 | 1 | 06/02/2024 22:35 | WG2297144 |
| Bromobenzene | U | | 0.00108 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| Bromodichloromethane | U | | 0.000871 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Bromoform | U | | 0.00140 | 0.0300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Bromomethane | U | | 0.00237 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| n-Butylbenzene | U | | 0.00630 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| sec-Butylbenzene | U | | 0.00346 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| tert-Butylbenzene | U | | 0.00234 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| Carbon tetrachloride | U | | 0.00108 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| Chlorobenzene | U | | 0.000252 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Chlorodibromomethane | U | | 0.000735 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Chloroethane | U | | 0.00204 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| Chloroform | U | | 0.00124 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Chloromethane | U | | 0.00522 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00104 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000540 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00468 | 0.0300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000778 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Dibromomethane | U | | 0.000901 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000510 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000720 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.000841 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00193 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000590 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000779 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000728 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.000881 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00125 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00171 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.000971 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000602 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.000909 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00137 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00166 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Di-isopropyl ether | U | | 0.000492 | 0.00120 | 1 | 06/02/2024 22:35 | WG2297144 |
| Ethylbenzene | 0.00180 | J | 0.000885 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00720 | 0.0300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Isopropylbenzene | U | | 0.000510 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00306 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0762 | 0.120 | 1 | 06/02/2024 22:35 | WG2297144 |
| Methylene Chloride | U | | 0.00797 | 0.0300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00274 | 0.0300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Methyl tert-butyl ether | U | | 0.000420 | 0.00120 | 1 | 06/02/2024 22:35 | WG2297144 |
| Naphthalene | U | | 0.00586 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| n-Propylbenzene | U | | 0.00114 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| Styrene | U | | 0.000275 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00114 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000835 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000905 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Tetrachloroethene | U | | 0.00108 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Toluene | U | | 0.00156 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.00880 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00528 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00111 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000717 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Trichloroethene | U | | 0.000701 | 0.00120 | 1 | 06/02/2024 22:35 | WG2297144 |
| Trichlorofluoromethane | U | | 0.000993 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00195 | 0.0150 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2,4-Trimethylbenzene | U | | 0.00190 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,2,3-Trimethylbenzene | U | | 0.00190 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00240 | 0.00600 | 1 | 06/02/2024 22:35 | WG2297144 |
| Vinyl chloride | U | | 0.00139 | 0.00300 | 1 | 06/02/2024 22:35 | WG2297144 |
| Xylenes, Total | 0.00261 | J | 0.00106 | 0.00780 | 1 | 06/02/2024 22:35 | WG2297144 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/02/2024 22:35* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/02/2024 22:35* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *88.1* | | | *70.0-130* | | *06/02/2024 22:35* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 56.0 | J | 16.2 | 88.0 | 20 | 06/04/2024 23:03 | WG2297499 |
| C22-C32 Hydrocarbons | 212 | | 29.3 | 88.0 | 20 | 06/04/2024 23:03 | WG2297499 |
| C32-C40 Hydrocarbons | 204 | | 29.3 | 88.0 | 20 | 06/04/2024 23:03 | WG2297499 |
| *(S) o-Terphenyl* | *74.0* | J7 | | *18.0-148* | | *06/04/2024 23:03* | WG2297499 |

Sample Narrative:

L1740668-18 WG2297499: Cannot run at lower dilution due to viscosity of extract.

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0593 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Acenaphthylene | U | | 0.0516 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Anthracene | U | | 0.0652 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Benzidine | U | | 0.689 | 18.4 | 10 | 06/07/2024 03:17 | WG2299526 |
| Benzo(a)anthracene | U | | 0.0646 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Benzo(b)fluoranthene | U | | 0.0683 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Benzo(k)fluoranthene | U | | 0.0651 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Benzo(g,h,i)perylene | U | | 0.0670 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Benzo(a)pyrene | U | | 0.0681 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Bis(2-chlorethoxy)methane | U | | 0.110 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Bis(2-chloroethyl)ether | U | | 0.121 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.158 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 4-Bromophenyl-phenylether | U | | 0.129 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2-Chloronaphthalene | U | | 0.0644 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| 4-Chlorophenyl-phenylether | U | | 0.128 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Chrysene | U | | 0.0728 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Dibenz(a,h)anthracene | U | | 0.102 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| 1,2-Dichlorobenzene | U | | 0.109 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 1,3-Dichlorobenzene | U | | 0.111 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 1,4-Dichlorobenzene | U | | 0.109 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 3,3-Dichlorobenzidine | U | | 0.135 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2,4-Dinitrotoluene | U | | 0.105 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2,6-Dinitrotoluene | U | | 0.120 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Fluoranthene | U | | 0.0661 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Fluorene | U | | 0.0596 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Hexachlorobenzene | U | | 0.130 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Hexachloro-1,3-butadiene | U | | 0.123 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Hexachlorocyclopentadiene | U | | 0.193 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Hexachloroethane | U | | 0.144 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Indeno(1,2,3-cd)pyrene | U | | 0.104 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Isophorone | U | | 0.112 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Naphthalene | U | | 0.0920 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Nitrobenzene | U | | 0.128 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| n-Nitrosodimethylamine | U | | 0.544 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| n-Nitrosodiphenylamine | U | | 0.277 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| n-Nitrosodi-n-propylamine | U | | 0.122 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Phenanthrene | U | | 0.0727 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| Benzylbutyl phthalate | U | | 0.114 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Bis(2-ethylhexyl)phthalate | U | | 0.464 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Di-n-butyl phthalate | U | | 0.125 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Diethyl phthalate | U | | 0.121 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Dimethyl phthalate | U | | 0.777 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Di-n-octyl phthalate | U | | 0.248 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Pyrene | U | | 0.0713 | 0.366 | 10 | 06/07/2024 03:17 | WG2299526 |
| 1,2,4-Trichlorobenzene | U | | 0.114 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.119 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2-Chlorophenol | U | | 0.121 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2,4-Dichlorophenol | U | | 0.107 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2,4-Dimethylphenol | U | | 0.0957 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 4,6-Dinitro-2-methylphenol | U | | 0.831 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2,4-Dinitrophenol | U | | 0.857 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2-Nitrophenol | U | | 0.131 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 4-Nitrophenol | U | | 0.114 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Pentachlorophenol | U | | 0.0986 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| Phenol | U | | 0.147 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| 2,4,6-Trichlorophenol | U | | 0.118 | 3.66 | 10 | 06/07/2024 03:17 | WG2299526 |
| *(S) 2-Fluorophenol* | *83.7* | | | *12.0-120* | | *06/07/2024 03:17* | WG2299526 |
| *(S) Phenol-d5* | *69.7* | | | *10.0-120* | | *06/07/2024 03:17* | WG2299526 |
| *(S) Nitrobenzene-d5* | *62.7* | | | *10.0-122* | | *06/07/2024 03:17* | WG2299526 |
| *(S) 2-Fluorobiphenyl* | *71.7* | | | *15.0-120* | | *06/07/2024 03:17* | WG2299526 |
| *(S) 2,4,6-Tribromophenol* | *69.4* | | | *10.0-127* | | *06/07/2024 03:17* | WG2299526 |
| *(S) p-Terphenyl-d14* | *68.0* | | | *10.0-120* | | *06/07/2024 03:17* | WG2299526 |

**Sample Narrative:**

L1740668-18 WG2299526: Dilution due to matrix impact during extract concentration procedure.

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

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.8 | | 1 | 05/31/2024 07:38 | WG2295888 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.21 | B J | 1.29 | 3.90 | 25 | 05/31/2024 21:06 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.1* | | | *77.0-120* | | *05/31/2024 21:06* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0569 | 0.0780 | 1 | 06/02/2024 22:55 | WG2297144 |
| Acrylonitrile | U | | 0.00563 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| Benzene | U | | 0.000728 | 0.00156 | 1 | 06/02/2024 22:55 | WG2297144 |
| Bromobenzene | U | | 0.00140 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| Bromodichloromethane | U | | 0.00113 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Bromoform | U | | 0.00182 | 0.0390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Bromomethane | U | | 0.00307 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| n-Butylbenzene | U | | 0.00819 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| sec-Butylbenzene | U | | 0.00449 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| tert-Butylbenzene | U | | 0.00304 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| Carbon tetrachloride | U | | 0.00140 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| Chlorobenzene | U | | 0.000327 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Chlorodibromomethane | U | | 0.000954 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Chloroethane | U | | 0.00265 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| Chloroform | U | | 0.00161 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Chloromethane | U | | 0.00678 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00135 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000702 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00608 | 0.0390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.00101 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Dibromomethane | U | | 0.00117 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000663 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000936 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.00109 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00251 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000766 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.00101 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000945 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.00114 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00162 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00221 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00126 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000781 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00118 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00178 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00215 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Di-isopropyl ether | U | | 0.000639 | 0.00156 | 1 | 06/02/2024 22:55 | WG2297144 |
| Ethylbenzene | U | | 0.00115 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00936 | 0.0390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Isopropylbenzene | U | | 0.000663 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00398 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0990 | 0.156 | 1 | 06/02/2024 22:55 | WG2297144 |
| Methylene Chloride | U | | 0.0104 | 0.0390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00356 | 0.0390 | 1 | 06/02/2024 22:55 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000546 | 0.00156 | 1 | 06/02/2024 22:55 | WG2297144 |
| Naphthalene | U | | 0.00761 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| n-Propylbenzene | U | | 0.00148 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| Styrene | U | | 0.000357 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00148 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00108 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00118 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Tetrachloroethene | U | | 0.00140 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Toluene | U | | 0.00203 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.0114 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00686 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00144 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000931 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Trichloroethene | U | | 0.000911 | 0.00156 | 1 | 06/02/2024 22:55 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00129 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00253 | 0.0195 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2,4-Trimethylbenzene | U | | 0.00246 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,2,3-Trimethylbenzene | U | | 0.00246 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00312 | 0.00780 | 1 | 06/02/2024 22:55 | WG2297144 |
| Vinyl chloride | U | | 0.00181 | 0.00390 | 1 | 06/02/2024 22:55 | WG2297144 |
| Xylenes, Total | U | | 0.00137 | 0.0101 | 1 | 06/02/2024 22:55 | WG2297144 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/02/2024 22:55* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/02/2024 22:55* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *86.9* | | | *70.0-130* | | *06/02/2024 22:55* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 4.57 | J | 0.931 | 5.08 | 1 | 06/04/2024 18:11 | WG2297499 |
| C22-C32 Hydrocarbons | 20.4 | | 1.69 | 5.08 | 1 | 06/04/2024 18:11 | WG2297499 |
| C32-C40 Hydrocarbons | 21.1 | | 1.69 | 5.08 | 1 | 06/04/2024 18:11 | WG2297499 |
| *(S) o-Terphenyl* | *48.4* | | | *18.0-148* | | *06/04/2024 18:11* | WG2297499 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.7 | | 1 | 05/31/2024 07:38 | WG2295888 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0460 | J | 0.0212 | 0.0472 | 1 | 05/31/2024 16:29 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 4.16 | | 0.642 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| Arsenic | 5.57 | | 0.611 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| Barium | 165 | | 0.101 | 0.590 | 1 | 06/11/2024 15:32 | WG2298288 |
| Beryllium | 0.199 | J | 0.0372 | 0.236 | 1 | 06/11/2024 15:32 | WG2298288 |
| Cadmium | 0.133 | J | 0.0556 | 0.590 | 1 | 06/11/2024 15:32 | WG2298288 |
| Chromium | 31.5 | | 0.157 | 1.18 | 1 | 06/11/2024 15:32 | WG2298288 |
| Cobalt | 13.5 | | 0.0957 | 1.18 | 1 | 06/11/2024 15:32 | WG2298288 |
| Copper | 32.9 | | 0.472 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| Lead | 7.60 | | 0.246 | 0.590 | 1 | 06/11/2024 15:32 | WG2298288 |
| Molybdenum | 0.563 | J | 0.129 | 0.590 | 1 | 06/11/2024 15:32 | WG2298288 |
| Nickel | 39.4 | | 0.156 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| Selenium | U | | 0.902 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| Silver | 3.02 | | 0.150 | 1.18 | 1 | 06/11/2024 15:32 | WG2298288 |
| Thallium | U | | 0.465 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| Vanadium | 53.5 | | 0.597 | 2.36 | 1 | 06/11/2024 15:32 | WG2298288 |
| Zinc | 41.0 | | 0.982 | 5.90 | 1 | 06/11/2024 15:32 | WG2298288 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0139 | 0.0401 | 1 | 06/03/2024 18:13 | WG2297376 |
| PCB 1221 | U | | 0.0139 | 0.0401 | 1 | 06/03/2024 18:13 | WG2297376 |
| PCB 1232 | U | | 0.0139 | 0.0401 | 1 | 06/03/2024 18:13 | WG2297376 |
| PCB 1242 | 0.157 | | 0.0139 | 0.0401 | 1 | 06/04/2024 13:44 | WG2297376 |
| PCB 1248 | U | | 0.00871 | 0.0201 | 1 | 06/03/2024 18:13 | WG2297376 |
| PCB 1254 | U | | 0.00871 | 0.0201 | 1 | 06/03/2024 18:13 | WG2297376 |
| PCB 1260 | 0.0124 | J | 0.00871 | 0.0201 | 1 | 06/04/2024 13:44 | WG2297376 |
| *(S) Decachlorobiphenyl* | *69.5* | | | *10.0-135* | | *06/03/2024 18:13* | WG2297376 |
| *(S) Decachlorobiphenyl* | *49.1* | | | *10.0-135* | | *06/04/2024 13:44* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *64.1* | | | *10.0-139* | | *06/04/2024 13:44* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *69.3* | | | *10.0-139* | | *06/03/2024 18:13* | WG2297376 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.00636 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Acenaphthylene | U | | 0.00554 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Anthracene | U | | 0.00700 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Benzidine | U | | 0.0739 | 1.97 | 1 | 06/06/2024 11:28 | WG2298678 |
| Benzo(a)anthracene | U | | 0.00693 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Benzo(b)fluoranthene | U | | 0.00733 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Benzo(k)fluoranthene | U | | 0.00699 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Benzo(g,h,i)perylene | U | | 0.00719 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Benzo(a)pyrene | U | | 0.00731 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0118 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0130 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0170 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0138 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00690 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0137 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Chrysene | U | | 0.00781 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.0109 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0116 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0119 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0117 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0145 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0113 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0129 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Fluoranthene | 0.0140 | J | 0.00709 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Fluorene | U | | 0.00640 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Hexachlorobenzene | U | | 0.0139 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0132 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0207 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Hexachloroethane | U | | 0.0155 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0111 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Isophorone | U | | 0.0120 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Naphthalene | U | | 0.00987 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Nitrobenzene | U | | 0.0137 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0583 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0297 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0131 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Phenanthrene | U | | 0.00780 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.0123 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | 0.177 | J | 0.0498 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0135 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Diethyl phthalate | U | | 0.0130 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Dimethyl phthalate | U | | 0.0833 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0266 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Pyrene | 0.0158 | J | 0.00765 | 0.0393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0123 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0127 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2-Chlorophenol | U | | 0.0130 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0114 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.0103 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0891 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0919 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2-Nitrophenol | U | | 0.0140 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 4-Nitrophenol | U | | 0.0123 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Pentachlorophenol | U | | 0.0106 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| Phenol | U | | 0.0158 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0126 | 0.393 | 1 | 06/06/2024 11:28 | WG2298678 |
| *(S) 2-Fluorophenol* | *53.2* | | | *12.0-120* | | *06/06/2024 11:28* | WG2298678 |
| *(S) Phenol-d5* | *49.7* | | | *10.0-120* | | *06/06/2024 11:28* | WG2298678 |
| *(S) Nitrobenzene-d5* | *40.0* | | | *10.0-122* | | *06/06/2024 11:28* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *53.0* | | | *15.0-120* | | *06/06/2024 11:28* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *57.3* | | | *10.0-127* | | *06/06/2024 11:28* | WG2298678 |
| *(S) p-Terphenyl-d14* | *65.8* | | | *10.0-120* | | *06/06/2024 11:28* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 82.2 | | 1 | 05/31/2024 07:38 | WG2295888 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0830 | | 0.0219 | 0.0487 | 1 | 05/31/2024 16:31 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 2.40 | J | 0.662 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| Arsenic | 13.9 | | 0.630 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| Barium | 337 | | 0.104 | 0.608 | 1 | 06/11/2024 15:34 | WG2298288 |
| Beryllium | 0.432 | | 0.0383 | 0.243 | 1 | 06/11/2024 15:34 | WG2298288 |
| Cadmium | 0.708 | | 0.0573 | 0.608 | 1 | 06/11/2024 15:34 | WG2298288 |
| Chromium | 26.2 | | 0.162 | 1.22 | 1 | 06/11/2024 15:34 | WG2298288 |
| Cobalt | 9.38 | | 0.0987 | 1.22 | 1 | 06/11/2024 15:34 | WG2298288 |
| Copper | 32.3 | | 0.487 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| Lead | 35.2 | | 0.253 | 0.608 | 1 | 06/11/2024 15:34 | WG2298288 |
| Molybdenum | 0.347 | J | 0.133 | 0.608 | 1 | 06/11/2024 15:34 | WG2298288 |
| Nickel | 38.3 | | 0.161 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| Selenium | U | | 0.930 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| Silver | 0.217 | J | 0.155 | 1.22 | 1 | 06/11/2024 15:34 | WG2298288 |
| Thallium | U | | 0.479 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| Vanadium | 34.1 | | 0.616 | 2.43 | 1 | 06/11/2024 15:34 | WG2298288 |
| Zinc | 77.8 | | 1.01 | 6.08 | 1 | 06/11/2024 15:34 | WG2298288 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0537 | 0.0735 | 1 | 06/02/2024 23:15 | WG2297144 |
| Acrylonitrile | U | | 0.00531 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| Benzene | 0.00272 | | 0.000687 | 0.00147 | 1 | 06/02/2024 23:15 | WG2297144 |
| Bromobenzene | U | | 0.00132 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| Bromodichloromethane | U | | 0.00107 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Bromoform | U | | 0.00172 | 0.0368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Bromomethane | U | | 0.00290 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| n-Butylbenzene | U | | 0.00772 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| sec-Butylbenzene | U | | 0.00423 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| tert-Butylbenzene | U | | 0.00287 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| Carbon tetrachloride | U | | 0.00132 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| Chlorobenzene | U | | 0.000309 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Chlorodibromomethane | U | | 0.000900 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Chloroethane | U | | 0.00250 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| Chloroform | U | | 0.00151 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Chloromethane | U | | 0.00640 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00127 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000662 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00573 | 0.0368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000953 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Dibromomethane | U | | 0.00110 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000625 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000882 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.00103 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00237 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000722 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000954 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000891 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.00108 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00153 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00209 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00119 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000737 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00111 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00168 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00203 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Di-isopropyl ether | U | | 0.000603 | 0.00147 | 1 | 06/02/2024 23:15 | WG2297144 |
| Ethylbenzene | 0.00154 | J | 0.00108 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00882 | 0.0368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Isopropylbenzene | U | | 0.000625 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00375 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0934 | 0.147 | 1 | 06/02/2024 23:15 | WG2297144 |
| Methylene Chloride | U | | 0.00976 | 0.0368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00335 | 0.0368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Methyl tert-butyl ether | U | | 0.000515 | 0.00147 | 1 | 06/02/2024 23:15 | WG2297144 |
| Naphthalene | 0.0276 | | 0.00717 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| n-Propylbenzene | U | | 0.00140 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| Styrene | U | | 0.000337 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00139 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00102 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00111 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Tetrachloroethene | U | | 0.00132 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Toluene | 0.00360 | J | 0.00191 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.0108 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00647 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00136 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000878 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Trichloroethene | U | | 0.000859 | 0.00147 | 1 | 06/02/2024 23:15 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00122 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00238 | 0.0184 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2,4-Trimethylbenzene | U | | 0.00232 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,2,3-Trimethylbenzene | 0.00247 | J | 0.00232 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00294 | 0.00735 | 1 | 06/02/2024 23:15 | WG2297144 |
| Vinyl chloride | U | | 0.00171 | 0.00368 | 1 | 06/02/2024 23:15 | WG2297144 |
| Xylenes, Total | 0.00522 | J | 0.00129 | 0.00956 | 1 | 06/02/2024 23:15 | WG2297144 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/02/2024 23:15* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/02/2024 23:15* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *89.8* | | | *70.0-130* | | *06/02/2024 23:15* | WG2297144 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | J3 J5 | 0.0144 | 0.0414 | 1 | 06/14/2024 21:24 | WG2304143 |
| PCB 1221 | U | | 0.0144 | 0.0414 | 1 | 06/14/2024 21:24 | WG2304143 |
| PCB 1232 | U | | 0.0144 | 0.0414 | 1 | 06/14/2024 21:24 | WG2304143 |
| PCB 1242 | U | | 0.0144 | 0.0414 | 1 | 06/14/2024 21:24 | WG2304143 |
| PCB 1248 | U | | 0.00898 | 0.0207 | 1 | 06/14/2024 21:24 | WG2304143 |
| PCB 1254 | U | | 0.00898 | 0.0207 | 1 | 06/14/2024 21:24 | WG2304143 |
| PCB 1260 | U | | 0.00898 | 0.0207 | 1 | 06/14/2024 21:24 | WG2304143 |
| *(S) Decachlorobiphenyl* | *85.0* | | | *10.0-135* | | *06/14/2024 21:24* | WG2304143 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *74.3* | | | *10.0-139* | | *06/14/2024 21:24* | WG2304143 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00660 | J | 0.00656 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Acenaphthylene | U | | 0.00571 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Anthracene | 0.00737 | J | 0.00722 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Benzidine | U | J6 | 0.0762 | 2.03 | 1 | 06/06/2024 12:42 | WG2298678 |
| Benzo(a)anthracene | 0.129 | J3 | 0.00714 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Benzo(b)fluoranthene | 0.206 | J3 | 0.00756 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Benzo(k)fluoranthene | 0.0623 | | 0.00720 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Benzo(g,h,i)perylene | 0.118 | J3 | 0.00741 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Benzo(a)pyrene | 0.151 | J3 | 0.00753 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0122 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0134 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0175 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0142 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00712 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0141 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Chrysene | 0.193 | J3 | 0.00806 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Dibenz(a,h)anthracene | 0.0340 | J | 0.0112 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0120 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0123 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0121 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0150 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0116 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0133 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Fluoranthene | 0.119 | | 0.00731 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Fluorene | 0.00824 | J | 0.00660 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Hexachlorobenzene | U | | 0.0144 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0136 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Hexachlorocyclopentadiene | U | J3 J6 | 0.0213 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Hexachloroethane | U | | 0.0159 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.129 | J3 | 0.0115 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Isophorone | U | | 0.0124 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Naphthalene | 0.0107 | J | 0.0102 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Nitrobenzene | U | | 0.0141 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0601 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0307 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0135 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Phenanthrene | 0.0555 | | 0.00804 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.0127 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | 0.103 | J | 0.0514 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0139 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Diethyl phthalate | U | | 0.0134 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Dimethyl phthalate | U | | 0.0859 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0274 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Pyrene | 0.153 | J3 | 0.00789 | 0.0405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0127 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0131 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2-Chlorophenol | U | | 0.0134 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0118 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.0106 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0919 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0948 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0145 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 4-Nitrophenol | U | | 0.0127 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Pentachlorophenol | U | | 0.0109 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| Phenol | U | | 0.0163 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0130 | 0.405 | 1 | 06/06/2024 12:42 | WG2298678 |
| *(S) 2-Fluorophenol* | *57.0* | | | *12.0-120* | | *06/06/2024 12:42* | WG2298678 |
| *(S) Phenol-d5* | *55.2* | | | *10.0-120* | | *06/06/2024 12:42* | WG2298678 |
| *(S) Nitrobenzene-d5* | *43.4* | | | *10.0-122* | | *06/06/2024 12:42* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *54.7* | | | *15.0-120* | | *06/06/2024 12:42* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *63.6* | | | *10.0-127* | | *06/06/2024 12:42* | WG2298678 |
| *(S) p-Terphenyl-d14* | *66.4* | | | *10.0-120* | | *06/06/2024 12:42* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.3 | | 1 | 05/31/2024 08:04 | WG2295890 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0835 | | 0.0221 | 0.0492 | 1 | 05/31/2024 16:39 | WG2295950 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 3.48 | | 0.669 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| Arsenic | 19.5 | | 0.637 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| Barium | 659 | | 0.105 | 0.615 | 1 | 06/11/2024 15:35 | WG2298288 |
| Beryllium | 0.464 | | 0.0387 | 0.246 | 1 | 06/11/2024 15:35 | WG2298288 |
| Cadmium | 2.08 | | 0.0579 | 0.615 | 1 | 06/11/2024 15:35 | WG2298288 |
| Chromium | 30.1 | | 0.164 | 1.23 | 1 | 06/11/2024 15:35 | WG2298288 |
| Cobalt | 12.7 | | 0.0997 | 1.23 | 1 | 06/11/2024 15:35 | WG2298288 |
| Copper | 57.6 | | 0.492 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| Lead | 52.6 | | 0.256 | 0.615 | 1 | 06/11/2024 15:35 | WG2298288 |
| Molybdenum | 0.494 | J | 0.134 | 0.615 | 1 | 06/11/2024 15:35 | WG2298288 |
| Nickel | 45.5 | | 0.162 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| Selenium | U | | 0.939 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| Silver | 0.261 | J | 0.156 | 1.23 | 1 | 06/11/2024 15:35 | WG2298288 |
| Thallium | U | | 0.484 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| Vanadium | 44.1 | | 0.622 | 2.46 | 1 | 06/11/2024 15:35 | WG2298288 |
| Zinc | 91.6 | | 1.02 | 6.15 | 1 | 06/11/2024 15:35 | WG2298288 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.24 | B J | 1.22 | 3.67 | 25 | 05/31/2024 21:26 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.3* | | | *77.0-120* | | *05/31/2024 21:26* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0535 | 0.0733 | 1 | 06/02/2024 23:34 | WG2297144 |
| Acrylonitrile | U | | 0.00529 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| Benzene | U | | 0.000685 | 0.00147 | 1 | 06/02/2024 23:34 | WG2297144 |
| Bromobenzene | U | | 0.00132 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| Bromodichloromethane | U | | 0.00106 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Bromoform | U | | 0.00172 | 0.0367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Bromomethane | U | | 0.00289 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| n-Butylbenzene | U | | 0.00770 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| sec-Butylbenzene | U | | 0.00422 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| tert-Butylbenzene | U | | 0.00286 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| Carbon tetrachloride | U | | 0.00132 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| Chlorobenzene | U | | 0.000308 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Chlorodibromomethane | U | | 0.000897 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Chloroethane | U | | 0.00249 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| Chloroform | U | | 0.00151 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Chloromethane | U | | 0.00638 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00127 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000660 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00572 | 0.0367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.000950 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Dibromomethane | U | | 0.00110 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000623 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.000880 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,4-Dichlorobenzene | U | | 0.00103 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00236 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,1-Dichloroethane | U | | 0.000720 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.000952 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.000889 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| cis-1,2-Dichloroethene | U | | 0.00108 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00153 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00208 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00119 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000735 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00111 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00167 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00202 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Di-isopropyl ether | U | | 0.000601 | 0.00147 | 1 | 06/02/2024 23:34 | WG2297144 |
| Ethylbenzene | U | | 0.00108 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.00880 | 0.0367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Isopropylbenzene | U | | 0.000623 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| p-Isopropyltoluene | U | | 0.00374 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.0931 | 0.147 | 1 | 06/02/2024 23:34 | WG2297144 |
| Methylene Chloride | U | | 0.00974 | 0.0367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00334 | 0.0367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Methyl tert-butyl ether | U | | 0.000513 | 0.00147 | 1 | 06/02/2024 23:34 | WG2297144 |
| Naphthalene | U | | 0.00716 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| n-Propylbenzene | U | | 0.00139 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| Styrene | U | | 0.000336 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00139 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00102 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00111 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Tetrachloroethene | U | | 0.00131 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Toluene | U | | 0.00191 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.0107 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00645 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00135 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.000875 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Trichloroethene | U | | 0.000856 | 0.00147 | 1 | 06/02/2024 23:34 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00121 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00238 | 0.0183 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2,4-Trimethylbenzene | U | | 0.00232 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,2,3-Trimethylbenzene | U | | 0.00232 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| 1,3,5-Trimethylbenzene | U | | 0.00293 | 0.00733 | 1 | 06/02/2024 23:34 | WG2297144 |
| Vinyl chloride | U | | 0.00170 | 0.00367 | 1 | 06/02/2024 23:34 | WG2297144 |
| Xylenes, Total | 0.00185 | J | 0.00129 | 0.00953 | 1 | 06/02/2024 23:34 | WG2297144 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/02/2024 23:34* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/02/2024 23:34* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *89.3* | | | *70.0-130* | | *06/02/2024 23:34* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 37.0 | | 0.901 | 4.92 | 1 | 06/05/2024 00:16 | WG2298254 |
| C22-C32 Hydrocarbons | 122 | | 1.64 | 4.92 | 1 | 06/05/2024 00:16 | WG2298254 |
| C32-C40 Hydrocarbons | 45.6 | | 1.64 | 4.92 | 1 | 06/05/2024 00:16 | WG2298254 |
| *(S) o-Terphenyl* | *50.0* | | | *18.0-148* | | *06/05/2024 00:16* | WG2298254 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00663 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Acenaphthylene | U | | 0.00577 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Anthracene | U | | 0.00729 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Benzidine | U | | 0.0770 | 2.05 | 1 | 06/06/2024 12:17 | WG2298678 |
| Benzo(a)anthracene | 0.00789 | J | 0.00722 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Benzo(b)fluoranthene | 0.0133 | J | 0.00763 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Benzo(k)fluoranthene | U | | 0.00728 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Benzo(g,h,i)perylene | 0.00909 | J | 0.00749 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Benzo(a)pyrene | 0.0112 | J | 0.00761 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0123 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0135 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0177 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0144 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00719 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0143 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Chrysene | 0.0101 | J | 0.00814 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.0113 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0121 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0124 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0122 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0151 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0117 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0134 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Fluoranthene | 0.0157 | J | 0.00739 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Fluorene | U | | 0.00666 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Hexachlorobenzene | U | | 0.0145 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0138 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0215 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Hexachloroethane | U | | 0.0161 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0116 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Isophorone | U | | 0.0125 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Naphthalene | U | | 0.0103 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Nitrobenzene | U | | 0.0143 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0607 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0310 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0136 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Phenanthrene | 0.0167 | J | 0.00813 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.0128 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0519 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0140 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Diethyl phthalate | U | | 0.0135 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Dimethyl phthalate | U | | 0.0868 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0277 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Pyrene | 0.0191 | J | 0.00797 | 0.0409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0128 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0133 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2-Chlorophenol | U | | 0.0135 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0119 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0107 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0928 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0958 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2-Nitrophenol | U | | 0.0146 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 4-Nitrophenol | U | | 0.0128 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Pentachlorophenol | U | | 0.0110 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| Phenol | U | | 0.0165 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0132 | 0.409 | 1 | 06/06/2024 12:17 | WG2298678 |
| *(S) 2-Fluorophenol* | *56.1* | | | *12.0-120* | | *06/06/2024 12:17* | WG2298678 |
| *(S) Phenol-d5* | *55.1* | | | *10.0-120* | | *06/06/2024 12:17* | WG2298678 |
| *(S) Nitrobenzene-d5* | *42.2* | | | *10.0-122* | | *06/06/2024 12:17* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *56.8* | | | *15.0-120* | | *06/06/2024 12:17* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *66.9* | | | *10.0-127* | | *06/06/2024 12:17* | WG2298678 |
| *(S) p-Terphenyl-d14* | *72.0* | | | *10.0-120* | | *06/06/2024 12:17* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 05/31/2024 08:04 | WG2295890 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 9.78 | | 1.52 | 4.57 | 33 | 05/31/2024 21:45 | WG2296426 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *05/31/2024 21:45* | WG2296426 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0668 | 0.0915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Acrylonitrile | U | | 0.00661 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Benzene | 0.0402 | | 0.000854 | 0.00183 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Bromobenzene | U | | 0.00165 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Bromodichloromethane | U | | 0.00133 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Bromoform | U | | 0.00213 | 0.0457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Bromomethane | U | | 0.00360 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| n-Butylbenzene | 0.0157 | J | 0.00960 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| sec-Butylbenzene | 0.00563 | J | 0.00527 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| tert-Butylbenzene | U | | 0.00356 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Carbon tetrachloride | U | | 0.00165 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Chlorobenzene | 0.00539 | | 0.000384 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Chlorodibromomethane | U | | 0.00112 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Chloroethane | U | | 0.00310 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Chloroform | U | | 0.00188 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Chloromethane | U | | 0.00795 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 2-Chlorotoluene | U | | 0.00158 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 4-Chlorotoluene | U | | 0.000823 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00714 | 0.0457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2-Dibromoethane | U | | 0.00118 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Dibromomethane | U | | 0.00137 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2-Dichlorobenzene | U | | 0.000777 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,3-Dichlorobenzene | U | | 0.00110 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,4-Dichlorobenzene | 0.00206 | J | 0.00128 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Dichlorodifluoromethane | U | | 0.00295 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,1-Dichloroethane | 0.00919 | | 0.000898 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2-Dichloroethane | U | | 0.00119 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,1-Dichloroethene | U | | 0.00111 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| cis-1,2-Dichloroethene | 0.00211 | J | 0.00134 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| trans-1,2-Dichloroethene | U | | 0.00190 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2-Dichloropropane | U | | 0.00259 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,1-Dichloropropene | U | | 0.00148 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,3-Dichloropropane | U | | 0.000916 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| cis-1,3-Dichloropropene | U | | 0.00138 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| trans-1,3-Dichloropropene | U | | 0.00208 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 2,2-Dichloropropane | U | J3 | 0.00252 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Di-isopropyl ether | U | | 0.000750 | 0.00183 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Ethylbenzene | 0.0473 | | 0.00135 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Hexachloro-1,3-butadiene | U | | 0.0110 | 0.0457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Isopropylbenzene | 0.00626 | | 0.000777 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| p-Isopropyltoluene | 0.109 | | 0.00467 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 2-Butanone (MEK) | U | | 0.116 | 0.183 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Methylene Chloride | 0.0131 | J | 0.0121 | 0.0457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00417 | 0.0457 | 1.32 | 06/02/2024 23:54 | WG2297144 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000640 | 0.00183 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Naphthalene | 0.101 | | 0.00892 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| n-Propylbenzene | 0.0220 | | 0.00173 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Styrene | U | | 0.000419 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00173 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00127 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00138 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Tetrachloroethene | U | | 0.00164 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Toluene | 0.152 | | 0.00238 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2,3-Trichlorobenzene | U | | 0.0134 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2,4-Trichlorobenzene | U | | 0.00805 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,1,1-Trichloroethane | U | | 0.00169 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,1,2-Trichloroethane | U | | 0.00109 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Trichloroethene | U | | 0.00107 | 0.00183 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Trichlorofluoromethane | U | | 0.00151 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2,3-Trichloropropane | U | | 0.00297 | 0.0229 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2,4-Trimethylbenzene | 0.0769 | | 0.00290 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,2,3-Trimethylbenzene | 0.0356 | | 0.00290 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| 1,3,5-Trimethylbenzene | 0.0303 | | 0.00366 | 0.00915 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Vinyl chloride | U | | 0.00212 | 0.00457 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| Xylenes, Total | 0.290 | | 0.00161 | 0.0119 | 1.32 | 06/02/2024 23:54 | WG2297144 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/02/2024 23:54* | WG2297144 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/02/2024 23:54* | WG2297144 |
| *(S) 1,2-Dichloroethane-d4* | *87.3* | | | *70.0-130* | | *06/02/2024 23:54* | WG2297144 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 27.8 | J | 17.9 | 97.5 | 20 | 06/05/2024 02:41 | WG2298254 |
| C22-C32 Hydrocarbons | 200 | | 32.4 | 97.5 | 20 | 06/05/2024 02:41 | WG2298254 |
| C32-C40 Hydrocarbons | 209 | | 32.4 | 97.5 | 20 | 06/05/2024 02:41 | WG2298254 |
| *(S) o-Terphenyl* | *64.4* | J7 | | *18.0-148* | | *06/05/2024 02:41* | WG2298254 |

**Sample Narrative:**

L1740668-25 WG2298254: Cannot run at lower dilution due to viscosity of extract

# QUALITY CONTROL SUMMARY

L1740668-01,02,03,05,06,07,08,11,12

## Method Blank (MB)

(MB) R4075627-1 05/30/24 17:33

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

## L1740668-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1740668-08 05/30/24 17:33 • (DUP) R4075627-3 05/30/24 17:33

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 77.8 | 74.9 | 1 | 3.82 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075627-2 05/30/24 17:33

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1740668-13,15,16,17,18,20,21,22

## Method Blank (MB)

(MB) R4075783-1 05/31/24 07:38

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

## L1740668-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1740668-22 05/31/24 07:38 • (DUP) R4075783-3 05/31/24 07:38

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 82.2 | 82.1 | 1 | 0.0796 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075783-2 05/31/24 07:38

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4075993-1 05/31/24 08:04

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

## L1740668-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1740668-25 05/31/24 08:04 • (DUP) R4075993-3 05/31/24 08:04

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 82.0 | 83.1 | 1 | 1.31 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075993-2 05/31/24 08:04

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 90.0-110 | |

## Method Blank (MB)

(MB) R4078969-1 06/07/24 12:45

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

## L1740925-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1740925-17 06/07/24 12:45 • (DUP) R4078969-3 06/07/24 12:45

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 83.7 | 83.5 | 1 | 0.149 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4078969-2 06/07/24 12:45

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1740668-10

## Method Blank (MB)

(MB) R4076528-1 06/03/24 10:14

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4076528-2 06/03/24 10:16

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 3.24 | 108 | 80.0-120 | |

## L1740668-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-10 06/03/24 10:19 • (MS) R4076528-4 06/03/24 10:24 • (MSD) R4076528-5 06/03/24 10:26

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 3.16 | 3.18 | 105 | 106 | 1 | 75.0-125 | | | 0.729 | 20 |

# QUALITY CONTROL SUMMARY

L1740668-01,02,03,11,12,13,16,17,18,21,22,23

## Method Blank (MB)

(MB) R4075915-1 05/31/24 15:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4075915-2 05/31/24 15:12

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.494 | 98.8 | 80.0-120 | |

## L1740546-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740546-03 05/31/24 15:14 • (MS) R4075915-4 05/31/24 15:19 • (MSD) R4075915-5 05/31/24 15:21

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.600 | U | 0.547 | 0.565 | 91.2 | 94.2 | 1 | 75.0-125 | | | 3.30 | 20 |

## Method Blank (MB)

(MB) R4080337-1 06/11/24 15:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4080337-2 06/11/24 15:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 93.8 | 93.8 | 80.0-120 | |
| Arsenic | 100 | 95.3 | 95.3 | 80.0-120 | |
| Barium | 100 | 99.4 | 99.4 | 80.0-120 | |
| Beryllium | 100 | 98.5 | 98.5 | 80.0-120 | |
| Cadmium | 100 | 95.2 | 95.2 | 80.0-120 | |
| Chromium | 100 | 100 | 100 | 80.0-120 | |
| Cobalt | 100 | 93.4 | 93.4 | 80.0-120 | |
| Copper | 100 | 99.6 | 99.6 | 80.0-120 | |
| Lead | 100 | 94.9 | 94.9 | 80.0-120 | |
| Molybdenum | 100 | 99.3 | 99.3 | 80.0-120 | |
| Nickel | 100 | 94.2 | 94.2 | 80.0-120 | |
| Selenium | 100 | 94.2 | 94.2 | 80.0-120 | |
| Silver | 20.0 | 19.6 | 98.1 | 80.0-120 | |
| Thallium | 100 | 98.0 | 98.0 | 80.0-120 | |
| Vanadium | 100 | 97.6 | 97.6 | 80.0-120 | |
| Zinc | 100 | 95.8 | 95.8 | 80.0-120 | |

## L1741031-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741031-01 06/11/24 15:04 • (MS) R4080337-5 06/11/24 15:10 • (MSD) R4080337-6 06/11/24 15:11

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 127 | 1.79 | 88.9 | 105 | 68.6 | 81.3 | 1 | 75.0-125 | J6 | | 16.7 | 20 |
| Arsenic | 127 | 4.50 | 114 | 131 | 85.9 | 99.7 | 1 | 75.0-125 | | | 14.3 | 20 |
| Barium | 127 | 55.7 | 172 | 192 | 91.9 | 107 | 1 | 75.0-125 | | | 10.8 | 20 |
| Beryllium | 127 | 0.531 | 112 | 132 | 88.1 | 104 | 1 | 75.0-125 | | | 16.1 | 20 |
| Cadmium | 127 | 0.338 | 110 | 128 | 86.0 | 101 | 1 | 75.0-125 | | | 15.9 | 20 |
| Chromium | 127 | 10.8 | 122 | 142 | 87.6 | 103 | 1 | 75.0-125 | | | 14.9 | 20 |
| Cobalt | 127 | 6.21 | 115 | 134 | 85.5 | 100 | 1 | 75.0-125 | | | 15.0 | 20 |
| Copper | 127 | 22.5 | 139 | 162 | 91.6 | 109 | 1 | 75.0-125 | | | 15.1 | 20 |
| Lead | 127 | 22.1 | 136 | 172 | 89.3 | 118 | 1 | 75.0-125 | | J3 | 23.6 | 20 |
| Molybdenum | 127 | 2.69 | 110 | 127 | 84.2 | 98.1 | 1 | 75.0-125 | | | 14.8 | 20 |
| Nickel | 127 | 16.0 | 127 | 143 | 87.1 | 100 | 1 | 75.0-125 | | | 12.2 | 20 |
| Selenium | 127 | U | 111 | 129 | 87.5 | 102 | 1 | 75.0-125 | | | 14.9 | 20 |
| Silver | 25.4 | 0.557 | 23.1 | 26.5 | 88.7 | 102 | 1 | 75.0-125 | | | 13.9 | 20 |
| Thallium | 127 | U | 109 | 129 | 86.2 | 102 | 1 | 75.0-125 | | | 16.7 | 20 |
| Vanadium | 127 | 16.5 | 126 | 146 | 86.5 | 102 | 1 | 75.0-125 | | | 14.3 | 20 |
| Zinc | 127 | 54.1 | 169 | 220 | 90.6 | 131 | 1 | 75.0-125 | | J3 J5 | 26.2 | 20 |

# QUALITY CONTROL SUMMARY

L1740668-10

## Method Blank (MB)

(MB) R4086928-1 06/26/24 17:53

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | 0.127 | J | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4086928-2 06/26/24 17:56

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 45.3 | 90.7 | 80.0-120 | |
| Arsenic | 50.0 | 48.5 | 97.1 | 80.0-120 | |
| Barium | 50.0 | 45.2 | 90.4 | 80.0-120 | |
| Beryllium | 50.0 | 48.4 | 96.7 | 80.0-120 | |
| Cadmium | 50.0 | 48.3 | 96.7 | 80.0-120 | |
| Chromium | 50.0 | 49.0 | 98.0 | 80.0-120 | |
| Copper | 50.0 | 47.3 | 94.6 | 80.0-120 | |
| Cobalt | 50.0 | 50.4 | 101 | 80.0-120 | |
| Lead | 50.0 | 48.5 | 97.0 | 80.0-120 | |
| Molybdenum | 50.0 | 45.0 | 90.0 | 80.0-120 | |
| Nickel | 50.0 | 50.9 | 102 | 80.0-120 | |
| Selenium | 50.0 | 46.3 | 92.6 | 80.0-120 | |
| Silver | 50.0 | 47.8 | 95.6 | 80.0-120 | |
| Thallium | 50.0 | 48.0 | 96.0 | 80.0-120 | |
| Vanadium | 50.0 | 48.4 | 96.9 | 80.0-120 | |
| Zinc | 50.0 | 47.7 | 95.3 | 80.0-120 | |

## L1740742-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740742-01 06/26/24 18:00 • (MS) R4086928-4 06/26/24 18:06 • (MSD) R4086928-5 06/26/24 18:10

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 49.6 | 48.6 | 99.2 | 97.1 | 1 | 75.0-125 | | | 2.07 | 20 |
| Arsenic | 50.0 | 2.89 | 52.7 | 51.9 | 99.6 | 98.1 | 1 | 75.0-125 | | | 1.47 | 20 |
| Barium | 50.0 | 23.4 | 71.5 | 69.0 | 96.2 | 91.3 | 1 | 75.0-125 | | | 3.48 | 20 |
| Beryllium | 50.0 | U | 45.4 | 47.4 | 90.7 | 94.8 | 1 | 75.0-125 | | | 4.40 | 20 |
| Cadmium | 50.0 | 0.662 | 50.8 | 49.1 | 100 | 96.9 | 1 | 75.0-125 | | | 3.35 | 20 |
| Chromium | 50.0 | | 50.2 | 49.4 | 100 | 98.7 | 1 | 75.0-125 | | | 1.61 | 20 |
| Copper | 50.0 | | 50.8 | 51.4 | 90.7 | 92.0 | 1 | 75.0-125 | | | 1.27 | 20 |
| Cobalt | 50.0 | 0.289 | 48.6 | 48.1 | 96.6 | 95.6 | 1 | 75.0-125 | | | 1.03 | 20 |
| Lead | 50.0 | | 50.2 | 48.8 | 100 | 97.6 | 1 | 75.0-125 | | | 2.74 | 20 |
| Molybdenum | 50.0 | | 57.2 | 56.6 | 99.2 | 98.1 | 1 | 75.0-125 | | | 0.917 | 20 |
| Nickel | 50.0 | 6.84 | 56.0 | 55.5 | 98.2 | 97.3 | 1 | 75.0-125 | | | 0.833 | 20 |
| Selenium | 50.0 | 0.796 | 50.2 | 48.7 | 98.8 | 95.9 | 1 | 75.0-125 | | | 2.96 | 20 |
| Silver | 50.0 | U | 49.6 | 48.4 | 99.2 | 96.9 | 1 | 75.0-125 | | | 2.41 | 20 |
| Thallium | 50.0 | U | 48.2 | 47.9 | 96.4 | 95.8 | 1 | 75.0-125 | | | 0.593 | 20 |
| Vanadium | 50.0 | 1.30 | 51.2 | 49.2 | 99.7 | 95.7 | 1 | 75.0-125 | | | 4.00 | 20 |
| Zinc | 50.0 | 39.1 | 84.5 | 84.1 | 90.9 | 90.0 | 1 | 75.0-125 | | | 0.547 | 20 |

## Method Blank (MB)

(MB) R4076913-3 05/31/24 16:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 2.34 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076913-1 05/31/24 15:32 • (LCSD) R4076913-2 05/31/24 15:51

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.04 | 5.11 | 101 | 102 | 72.0-125 | | | 1.38 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *101* | *101* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4078688-5 06/07/24 03:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078688-1 06/06/24 22:36 • (LCSD) R4078688-2 06/06/24 22:59

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.55 | 4.18 | 91.0 | 83.6 | 72.0-125 | | | 8.48 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *100* | *98.2* | *77.0-120* | | | | |

## L1740668-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-12 06/07/24 08:13 • (MS) R4078688-6 06/07/24 13:37 • (MSD) R4078688-7 06/07/24 14:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 151 | 1.52 | 154 | 170 | 101 | 112 | 25 | 10.0-141 | | | 9.81 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *102* | *104* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4079614-2 06/07/24 17:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4079614-1 06/07/24 15:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.20 | 84.0 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## Method Blank (MB)

(MB) R4077308-2 06/02/24 13:06

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | 86.6 | J | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.7* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4077308-1 06/02/24 12:20

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 4690 | 93.8 | 71.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *110* | *78.0-120* | |

## Method Blank (MB)

(MB) R4076462-3 06/02/24 14:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4076462-3 06/02/24 14:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *92.5* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076462-1 06/02/24 13:04 • (LCSD) R4076462-2 06/02/24 13:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.607 | 0.583 | 97.1 | 93.3 | 10.0-160 | | | 4.03 | 31 |
| Acrylonitrile | 0.625 | 0.538 | 0.588 | 86.1 | 94.1 | 45.0-153 | | | 8.88 | 22 |
| Benzene | 0.125 | 0.122 | 0.123 | 97.6 | 98.4 | 70.0-123 | | | 0.816 | 20 |
| Bromobenzene | 0.125 | 0.124 | 0.122 | 99.2 | 97.6 | 73.0-121 | | | 1.63 | 20 |
| Bromodichloromethane | 0.125 | 0.118 | 0.120 | 94.4 | 96.0 | 73.0-121 | | | 1.68 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076462-1 06/02/24 13:04 • (LCSD) R4076462-2 06/02/24 13:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.109 | 0.103 | 87.2 | 82.4 | 64.0-132 | | | 5.66 | 20 |
| Bromomethane | 0.125 | 0.102 | 0.120 | 81.6 | 96.0 | 56.0-147 | | | 16.2 | 20 |
| n-Butylbenzene | 0.125 | 0.133 | 0.134 | 106 | 107 | 68.0-135 | | | 0.749 | 20 |
| sec-Butylbenzene | 0.125 | 0.127 | 0.124 | 102 | 99.2 | 74.0-130 | | | 2.39 | 20 |
| tert-Butylbenzene | 0.125 | 0.129 | 0.123 | 103 | 98.4 | 75.0-127 | | | 4.76 | 20 |
| Carbon tetrachloride | 0.125 | 0.120 | 0.127 | 96.0 | 102 | 66.0-128 | | | 5.67 | 20 |
| Chlorobenzene | 0.125 | 0.129 | 0.125 | 103 | 100 | 76.0-128 | | | 3.15 | 20 |
| Chlorodibromomethane | 0.125 | 0.124 | 0.124 | 99.2 | 99.2 | 74.0-127 | | | 0.000 | 20 |
| Chloroethane | 0.125 | 0.125 | 0.138 | 100 | 110 | 61.0-134 | | | 9.89 | 20 |
| Chloroform | 0.125 | 0.117 | 0.124 | 93.6 | 99.2 | 72.0-123 | | | 5.81 | 20 |
| Chloromethane | 0.125 | 0.129 | 0.145 | 103 | 116 | 51.0-138 | | | 11.7 | 20 |
| 2-Chlorotoluene | 0.125 | 0.123 | 0.127 | 98.4 | 102 | 75.0-124 | | | 3.20 | 20 |
| 4-Chlorotoluene | 0.125 | 0.117 | 0.117 | 93.6 | 93.6 | 75.0-124 | | | 0.000 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0963 | 0.0960 | 77.0 | 76.8 | 59.0-130 | | | 0.312 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.119 | 0.118 | 95.2 | 94.4 | 74.0-128 | | | 0.844 | 20 |
| Dibromomethane | 0.125 | 0.122 | 0.127 | 97.6 | 102 | 75.0-122 | | | 4.02 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.124 | 0.122 | 99.2 | 97.6 | 76.0-124 | | | 1.63 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.125 | 0.126 | 100 | 101 | 76.0-125 | | | 0.797 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.123 | 0.119 | 98.4 | 95.2 | 77.0-121 | | | 3.31 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.137 | 0.146 | 110 | 117 | 43.0-156 | | | 6.36 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.118 | 0.127 | 94.4 | 102 | 70.0-127 | | | 7.35 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.115 | 0.122 | 92.0 | 97.6 | 65.0-131 | | | 5.91 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.127 | 0.134 | 102 | 107 | 65.0-131 | | | 5.36 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.125 | 0.129 | 100 | 103 | 73.0-125 | | | 3.15 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.121 | 0.131 | 96.8 | 105 | 71.0-125 | | | 7.94 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 74.0-125 | | | 2.45 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.123 | 0.132 | 98.4 | 106 | 73.0-125 | | | 7.06 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.127 | 0.126 | 102 | 101 | 80.0-125 | | | 0.791 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.114 | 0.121 | 91.2 | 96.8 | 76.0-127 | | | 5.96 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.121 | 0.122 | 96.8 | 97.6 | 73.0-127 | | | 0.823 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.0874 | 0.110 | 69.9 | 88.0 | 59.0-135 | | J3 | 22.9 | 20 |
| Di-isopropyl ether | 0.125 | 0.120 | 0.126 | 96.0 | 101 | 60.0-136 | | | 4.88 | 20 |
| Ethylbenzene | 0.125 | 0.126 | 0.132 | 101 | 106 | 74.0-126 | | | 4.65 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.126 | 0.135 | 101 | 108 | 57.0-150 | | | 6.90 | 20 |
| Isopropylbenzene | 0.125 | 0.123 | 0.128 | 98.4 | 102 | 72.0-127 | | | 3.98 | 20 |
| p-Isopropyltoluene | 0.125 | 0.128 | 0.129 | 102 | 103 | 72.0-133 | | | 0.778 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.695 | 0.687 | 111 | 110 | 30.0-160 | | | 1.16 | 24 |
| Methylene Chloride | 0.125 | 0.122 | 0.127 | 97.6 | 102 | 68.0-123 | | | 4.02 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.626 | 0.614 | 100 | 98.2 | 56.0-143 | | | 1.94 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 66.0-132 | | | 3.45 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076462-1 06/02/24 13:04 • (LCSD) R4076462-2 06/02/24 13:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.111 | 0.124 | 88.8 | 99.2 | 59.0-130 | | | 11.1 | 20 |
| n-Propylbenzene | 0.125 | 0.123 | 0.121 | 98.4 | 96.8 | 74.0-126 | | | 1.64 | 20 |
| Styrene | 0.125 | 0.126 | 0.129 | 101 | 103 | 72.0-127 | | | 2.35 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.122 | 0.125 | 97.6 | 100 | 74.0-129 | | | 2.43 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.0909 | 0.0958 | 72.7 | 76.6 | 68.0-128 | | | 5.25 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.131 | 0.129 | 105 | 103 | 61.0-139 | | | 1.54 | 20 |
| Tetrachloroethene | 0.125 | 0.140 | 0.143 | 112 | 114 | 70.0-136 | | | 2.12 | 20 |
| Toluene | 0.125 | 0.125 | 0.122 | 100 | 97.6 | 75.0-121 | | | 2.43 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.121 | 0.130 | 96.8 | 104 | 59.0-139 | | | 7.17 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.121 | 0.133 | 96.8 | 106 | 62.0-137 | | | 9.45 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.130 | 0.130 | 104 | 104 | 69.0-126 | | | 0.000 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.123 | 0.121 | 98.4 | 96.8 | 78.0-123 | | | 1.64 | 20 |
| Trichloroethene | 0.125 | 0.136 | 0.124 | 109 | 99.2 | 76.0-126 | | | 9.23 | 20 |
| Trichlorofluoromethane | 0.125 | 0.125 | 0.131 | 100 | 105 | 61.0-142 | | | 4.69 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 67.0-129 | | | 1.65 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.130 | 0.122 | 104 | 97.6 | 70.0-126 | | | 6.35 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.125 | 0.123 | 100 | 98.4 | 74.0-124 | | | 1.61 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.126 | 0.129 | 101 | 103 | 73.0-127 | | | 2.35 | 20 |
| Vinyl chloride | 0.125 | 0.126 | 0.147 | 101 | 118 | 63.0-134 | | | 15.4 | 20 |
| Xylenes, Total | 0.375 | 0.369 | 0.374 | 98.4 | 99.7 | 72.0-127 | | | 1.35 | 20 |
| *(S) Toluene-d8* | | | | *102* | *100* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *99.4* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *96.1* | *96.4* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4077241-3 06/04/24 01:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Naphthalene | U | | 0.00488 | 0.0125 |
| *(S) Toluene-d8* | *97.7* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *86.6* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077241-1 06/04/24 00:12 • (LCSD) R4077241-2 06/04/24 00:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.126 | 0.132 | 101 | 106 | 59.0-130 | | | 4.65 | 20 |
| *(S) Toluene-d8* | | | | *96.3* | *98.8* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *104* | *104* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *95.8* | *91.7* | *70.0-130* | | | | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4078086-3 06/05/24 05:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

## Method Blank (MB)

(MB) R4078086-3 06/05/24 05:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *105* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078086-1 06/05/24 04:40 • (LCSD) R4078086-2 06/05/24 05:01

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 24.2 | 24.1 | 96.8 | 96.4 | 19.0-160 | J | J | 0.414 | 27 |
| Acrolein | 25.0 | 23.8 | 24.8 | 95.2 | 99.2 | 10.0-160 | J | J | 4.12 | 26 |
| Acrylonitrile | 25.0 | 26.7 | 27.1 | 107 | 108 | 55.0-149 | | | 1.49 | 20 |
| Benzene | 5.00 | 5.30 | 5.14 | 106 | 103 | 70.0-123 | | | 3.07 | 20 |

# QUALITY CONTROL SUMMARY

L1740668-09,10

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078086-1 06/05/24 04:40 • (LCSD) R4078086-2 06/05/24 05:01

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 5.09 | 4.98 | 102 | 99.6 | 73.0-121 | | | 2.18 | 20 |
| Bromodichloromethane | 5.00 | 4.99 | 5.02 | 99.8 | 100 | 75.0-120 | | | 0.599 | 20 |
| Bromoform | 5.00 | 4.54 | 4.45 | 90.8 | 89.0 | 68.0-132 | | | 2.00 | 20 |
| Bromomethane | 5.00 | 9.60 | 8.14 | 192 | 163 | 10.0-160 | J4 | J4 | 16.5 | 25 |
| n-Butylbenzene | 5.00 | 4.55 | 4.37 | 91.0 | 87.4 | 73.0-125 | | | 4.04 | 20 |
| sec-Butylbenzene | 5.00 | 4.97 | 4.72 | 99.4 | 94.4 | 75.0-125 | | | 5.16 | 20 |
| tert-Butylbenzene | 5.00 | 5.00 | 4.84 | 100 | 96.8 | 76.0-124 | | | 3.25 | 20 |
| Carbon tetrachloride | 5.00 | 4.90 | 4.88 | 98.0 | 97.6 | 68.0-126 | | | 0.409 | 20 |
| Chlorobenzene | 5.00 | 4.98 | 4.92 | 99.6 | 98.4 | 80.0-121 | | | 1.21 | 20 |
| Chlorodibromomethane | 5.00 | 4.86 | 4.65 | 97.2 | 93.0 | 77.0-125 | | | 4.42 | 20 |
| Chloroethane | 5.00 | 5.46 | 6.06 | 109 | 121 | 47.0-150 | | | 10.4 | 20 |
| Chloroform | 5.00 | 5.20 | 5.19 | 104 | 104 | 73.0-120 | | | 0.192 | 20 |
| Chloromethane | 5.00 | 5.17 | 4.78 | 103 | 95.6 | 41.0-142 | | | 7.84 | 20 |
| 2-Chlorotoluene | 5.00 | 4.79 | 4.82 | 95.8 | 96.4 | 76.0-123 | | | 0.624 | 20 |
| 4-Chlorotoluene | 5.00 | 4.99 | 4.78 | 99.8 | 95.6 | 75.0-122 | | | 4.30 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.56 | 4.34 | 91.2 | 86.8 | 58.0-134 | J | J | 4.94 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.89 | 4.73 | 97.8 | 94.6 | 80.0-122 | | | 3.33 | 20 |
| Dibromomethane | 5.00 | 5.29 | 5.03 | 106 | 101 | 80.0-120 | | | 5.04 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 4.86 | 5.02 | 97.2 | 100 | 79.0-121 | | | 3.24 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.74 | 4.64 | 94.8 | 92.8 | 79.0-120 | | | 2.13 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 4.85 | 4.77 | 97.0 | 95.4 | 79.0-120 | | | 1.66 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.93 | 5.86 | 119 | 117 | 51.0-149 | | | 1.19 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.44 | 4.81 | 109 | 96.2 | 70.0-126 | | | 12.3 | 20 |
| 1,2-Dichloroethane | 5.00 | 5.17 | 5.19 | 103 | 104 | 70.0-128 | | | 0.386 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.14 | 5.30 | 103 | 106 | 71.0-124 | | | 3.07 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 5.11 | 4.99 | 102 | 99.8 | 73.0-120 | | | 2.38 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 5.69 | 5.54 | 114 | 111 | 73.0-120 | | | 2.67 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.00 | 5.14 | 100 | 103 | 77.0-125 | | | 2.76 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.33 | 5.06 | 107 | 101 | 74.0-126 | | | 5.20 | 20 |
| 1,3-Dichloropropane | 5.00 | 4.81 | 4.80 | 96.2 | 96.0 | 80.0-120 | | | 0.208 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 5.17 | 5.15 | 103 | 103 | 80.0-123 | | | 0.388 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 5.02 | 4.54 | 100 | 90.8 | 78.0-124 | | | 10.0 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.48 | 4.51 | 89.6 | 90.2 | 58.0-130 | | | 0.667 | 20 |
| Di-isopropyl ether | 5.00 | 5.39 | 5.24 | 108 | 105 | 58.0-138 | | | 2.82 | 20 |
| Ethylbenzene | 5.00 | 4.89 | 4.60 | 97.8 | 92.0 | 79.0-123 | | | 6.11 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 4.72 | 4.78 | 94.4 | 95.6 | 54.0-138 | | | 1.26 | 20 |
| Isopropylbenzene | 5.00 | 4.95 | 4.72 | 99.0 | 94.4 | 76.0-127 | | | 4.76 | 20 |
| p-Isopropyltoluene | 5.00 | 5.09 | 4.80 | 102 | 96.0 | 76.0-125 | | | 5.86 | 20 |
| 2-Butanone (MEK) | 25.0 | 26.9 | 27.9 | 108 | 112 | 44.0-160 | | | 3.65 | 20 |
| Methylene Chloride | 5.00 | 5.28 | 5.35 | 106 | 107 | 67.0-120 | | | 1.32 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078086-1 06/05/24 04:40 • (LCSD) R4078086-2 06/05/24 05:01

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 26.4 | 26.0 | 106 | 104 | 68.0-142 | | | 1.53 | 20 |
| Methyl tert-butyl ether | 5.00 | 5.65 | 5.35 | 113 | 107 | 68.0-125 | | | 5.45 | 20 |
| Naphthalene | 5.00 | 4.08 | 4.24 | 81.6 | 84.8 | 54.0-135 | J | J | 3.85 | 20 |
| n-Propylbenzene | 5.00 | 5.10 | 4.82 | 102 | 96.4 | 77.0-124 | | | 5.65 | 20 |
| Styrene | 5.00 | 4.72 | 4.46 | 94.4 | 89.2 | 73.0-130 | | | 5.66 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.70 | 4.81 | 94.0 | 96.2 | 75.0-125 | | | 2.31 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.77 | 4.83 | 95.4 | 96.6 | 65.0-130 | | | 1.25 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 5.13 | 5.30 | 103 | 106 | 69.0-132 | | | 3.26 | 20 |
| Tetrachloroethene | 5.00 | 5.12 | 4.94 | 102 | 98.8 | 72.0-132 | | | 3.58 | 20 |
| Toluene | 5.00 | 4.95 | 4.85 | 99.0 | 97.0 | 79.0-120 | | | 2.04 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 4.59 | 4.79 | 91.8 | 95.8 | 50.0-138 | | | 4.26 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.16 | 4.28 | 83.2 | 85.6 | 57.0-137 | | | 2.84 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 5.10 | 5.22 | 102 | 104 | 73.0-124 | | | 2.33 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.94 | 4.92 | 98.8 | 98.4 | 80.0-120 | | | 0.406 | 20 |
| Trichloroethene | 5.00 | 5.10 | 5.01 | 102 | 100 | 78.0-124 | | | 1.78 | 20 |
| Trichlorofluoromethane | 5.00 | 5.44 | 5.20 | 109 | 104 | 59.0-147 | | | 4.51 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 5.18 | 5.07 | 104 | 101 | 73.0-130 | | | 2.15 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 5.02 | 4.89 | 100 | 97.8 | 76.0-121 | | | 2.62 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 5.33 | 4.82 | 107 | 96.4 | 77.0-120 | | | 10.0 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 5.06 | 5.00 | 101 | 100 | 76.0-122 | | | 1.19 | 20 |
| Vinyl chloride | 5.00 | 5.24 | 5.32 | 105 | 106 | 67.0-131 | | | 1.52 | 20 |
| Xylenes, Total | 15.0 | 14.9 | 14.4 | 99.3 | 96.0 | 79.0-123 | | | 3.41 | 20 |
| *(S) Toluene-d8* | | | | *106* | *103* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *106* | *101* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *107* | *105* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075758-1 05/31/24 07:50

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | 34.9 | J | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *58.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075758-2 05/31/24 08:10 • (LCSD) R4075758-3 05/31/24 08:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 829 | 966 | 111 | 129 | 50.0-150 | | | 15.3 | 20 |
| C22-C32 Hydrocarbons | 750 | 734 | 870 | 97.9 | 116 | 50.0-150 | | | 17.0 | 20 |
| *(S) o-Terphenyl* | | | | *73.0* | *77.5* | *52.0-156* | | | | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

# QUALITY CONTROL SUMMARY

L1740668-03,05,06,07,08,13,15,18,20

## Method Blank (MB)

(MB) R4077302-1 06/04/24 13:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *69.2* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4077302-2 06/04/24 14:46

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 15.5 | 62.0 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 12.5 | 50.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *59.3* | *18.0-148* | |

## L1740381-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740381-03 06/04/24 18:25 • (MS) R4077302-3 06/04/24 18:39 • (MSD) R4077302-4 06/04/24 18:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 27.7 | 1.67 | 25.5 | 17.9 | 86.2 | 58.5 | 1 | 50.0-150 | | J3 | 35.0 | 20 |
| C22-C32 Hydrocarbons | 27.7 | 14.2 | 45.8 | 25.1 | 114 | 39.2 | 1 | 50.0-150 | | J3 J6 | 58.6 | 20 |
| *(S) o-Terphenyl* | | | | | *75.7* | *50.3* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4077408-1 06/04/24 21:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *87.7* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4077408-2 06/04/24 21:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 17.9 | 71.6 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 15.3 | 61.2 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *56.8* | *18.0-148* | |

## L1740925-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-01 06/05/24 00:55 • (MS) R4077408-3 06/05/24 01:09 • (MSD) R4077408-4 06/05/24 01:22

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 29.3 | 11.5 | 31.0 | 32.2 | 66.9 | 71.0 | 5 | 50.0-150 | | | 3.77 | 20 |
| C22-C32 Hydrocarbons | 29.3 | 62.1 | 88.7 | 88.7 | 91.0 | 91.0 | 5 | 50.0-150 | | | 0.000 | 20 |
| *(S) o-Terphenyl* | | | | | *44.8* | *52.8* | | *18.0-148* | | | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract

## Method Blank (MB)

(MB) R4079050-1 06/08/24 09:48

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *57.1* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4079050-2 06/08/24 10:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 23.4 | 93.6 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 18.2 | 72.8 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *75.2* | *18.0-148* | |

## Method Blank (MB)

(MB) R4076882-1 06/03/24 15:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *63.2* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *80.2* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4076882-2 06/03/24 15:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.152 | 91.0 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.139 | 83.2 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *71.0* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *86.9* | *10.0-139* | |

## L1740431-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740431-07 06/03/24 15:50 • (MS) R4076882-3 06/03/24 15:58 • (MSD) R4076882-4 06/03/24 16:07

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.206 | U | 0.112 | 0.158 | 54.4 | 76.6 | 1 | 10.0-160 | | | 33.9 | 37 |
| PCB 1260 | 0.206 | U | 0.107 | 0.148 | 52.0 | 71.9 | 1 | 10.0-160 | | | 32.0 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *56.9* | *59.3* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *63.8* | *66.2* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4076823-1 06/03/24 17:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *85.3* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *73.7* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4076823-2 06/03/24 17:45

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.139 | 83.2 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.145 | 86.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *101* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *85.9* | *10.0-139* | |

## L1740713-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740713-02 06/03/24 18:32 • (MS) R4076823-3 06/03/24 18:41 • (MSD) R4076823-4 06/03/24 18:51

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.167 | U | 0.0775 | 0.115 | 46.4 | 68.9 | 1 | 10.0-160 | | J3 | 39.0 | 37 |
| PCB 1260 | 0.167 | U | 0.168 | 0.118 | 101 | 70.7 | 1 | 10.0-160 | P | | 35.0 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *62.9* | *77.6* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *63.5* | *76.9* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4081932-1 06/13/24 21:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *82.9* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *90.7* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4081932-2 06/13/24 21:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.141 | 84.4 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.165 | 98.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *102* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *98.6* | *10.0-139* | |

## L1740668-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-17 06/13/24 21:47 • (MS) R4081932-3 06/13/24 21:57 • (MSD) R4081932-4 06/13/24 22:07

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.178 | U | 0.120 | 0.118 | 67.3 | 65.2 | 1 | 10.0-160 | | | 1.85 | 37 |
| PCB 1260 | 0.178 | U | 0.108 | 0.108 | 60.9 | 59.7 | 1 | 10.0-160 | | | 0.712 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *58.6* | *61.1* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *80.6* | *81.9* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4082843-1 06/14/24 20:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *117* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *117* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4082843-2 06/14/24 20:38

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.206 | 123 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.219 | 131 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *126* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *123* | *10.0-139* | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/14/24 21:24 • (MS) R4082843-3 06/14/24 21:33 • (MSD) R4082843-4 06/14/24 21:43

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.201 | U | 0.588 | 0.389 | 293 | 195 | 1 | 10.0-160 | J5 P | J3 J5 P | 40.6 | 37 |
| PCB 1260 | 0.201 | U | 0.156 | 0.190 | 77.6 | 95.1 | 1 | 10.0-160 | P | P | 19.7 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *83.8* | *79.7* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *86.2* | *75.0* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4078735-2 06/06/24 10:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4078735-2 06/06/24 10:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *60.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *57.5* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *46.8* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *54.7* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *48.6* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *64.9* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.460 | 69.1 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.505 | 75.8 | 40.0-120 | |
| Anthracene | 0.666 | 0.520 | 78.1 | 42.0-120 | |
| Benzidine | 1.33 | 0.244 | 18.3 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.553 | 83.0 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.511 | 76.7 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.491 | 73.7 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.573 | 86.0 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.538 | 80.8 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.359 | 53.9 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.425 | 63.8 | 16.0-120 | |

# QUALITY CONTROL SUMMARY

L1740668-21,22,23

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.429 | 64.4 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.511 | 76.7 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.436 | 65.5 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.498 | 74.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.514 | 77.2 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.596 | 89.5 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.435 | 65.3 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.428 | 64.3 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.454 | 68.2 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.917 | 68.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.523 | 78.5 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.524 | 78.7 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.522 | 78.4 | 44.0-120 | |
| Fluorene | 0.666 | 0.470 | 70.6 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.480 | 72.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.375 | 56.3 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.373 | 56.0 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.427 | 64.1 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.640 | 96.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.369 | 55.4 | 23.0-120 | |
| Naphthalene | 0.666 | 0.379 | 56.9 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.347 | 52.1 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.338 | 50.8 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.458 | 68.8 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.428 | 64.3 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.491 | 73.7 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.559 | 83.9 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.567 | 85.1 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.508 | 76.3 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.522 | 78.4 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.498 | 74.8 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.561 | 84.2 | 40.0-120 | |
| Pyrene | 0.666 | 0.531 | 79.7 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.391 | 58.7 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.408 | 61.3 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.469 | 70.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.413 | 62.0 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.366 | 55.0 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.626 | 94.0 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.434 | 65.2 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.443 | 66.5 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.515 | 77.3 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.351 | 52.7 | 29.0-120 | |
| Phenol | 0.666 | 0.450 | 67.6 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.479 | 71.9 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *76.9* | *12.0-120* | |
| *(S) Phenol-d5* | | | *71.0* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *48.9* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *69.7* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *67.7* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *78.4* | *10.0-120* | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.798 | 0.00660 | 0.428 | 0.393 | 52.8 | 48.4 | 1 | 18.0-120 | | | 8.59 | 32 |
| Acenaphthylene | 0.798 | U | 0.437 | 0.417 | 54.7 | 52.3 | 1 | 25.0-120 | | | 4.56 | 32 |
| Anthracene | 0.798 | 0.00737 | 0.515 | 0.442 | 63.6 | 54.4 | 1 | 22.0-120 | | | 15.3 | 29 |
| Benzidine | 1.59 | U | U | U | 0.000 | 0.000 | 1 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.798 | 0.129 | 0.745 | 0.535 | 77.1 | 50.9 | 1 | 25.0-120 | | J3 | 32.7 | 29 |
| Benzo(b)fluoranthene | 0.798 | 0.206 | 0.829 | 0.529 | 78.0 | 40.5 | 1 | 19.0-122 | | J3 | 44.1 | 31 |
| Benzo(k)fluoranthene | 0.798 | 0.0623 | 0.579 | 0.438 | 64.8 | 47.1 | 1 | 23.0-120 | | | 27.8 | 30 |
| Benzo(g,h,i)perylene | 0.798 | 0.118 | 0.688 | 0.482 | 71.4 | 45.6 | 1 | 10.0-120 | | J3 | 35.2 | 33 |
| Benzo(a)pyrene | 0.798 | 0.151 | 0.762 | 0.521 | 76.5 | 46.3 | 1 | 24.0-120 | | J3 | 37.6 | 30 |
| Bis(2-chlorethoxy)methane | 0.798 | U | 0.224 | 0.262 | 28.0 | 32.8 | 1 | 10.0-120 | J | J | 15.5 | 34 |
| Bis(2-chloroethyl)ether | 0.798 | U | 0.273 | 0.313 | 34.1 | 39.2 | 1 | 10.0-120 | J | J | 13.7 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.798 | U | 0.235 | 0.307 | 29.4 | 38.4 | 1 | 10.0-120 | J | J | 26.5 | 40 |
| 4-Bromophenyl-phenylether | 0.798 | U | 0.511 | 0.486 | 64.0 | 60.8 | 1 | 27.0-120 | | | 5.13 | 30 |
| 2-Chloronaphthalene | 0.798 | U | 0.360 | 0.346 | 45.1 | 43.3 | 1 | 20.0-120 | | | 4.14 | 32 |
| 4-Chlorophenyl-phenylether | 0.798 | U | 0.481 | 0.447 | 60.2 | 55.9 | 1 | 24.0-120 | | | 7.35 | 29 |
| Chrysene | 0.798 | 0.193 | 0.819 | 0.554 | 78.4 | 45.1 | 1 | 21.0-120 | | J3 | 38.7 | 29 |
| Dibenz(a,h)anthracene | 0.798 | 0.0340 | 0.570 | 0.459 | 67.1 | 53.2 | 1 | 10.0-120 | | | 21.5 | 32 |
| 1,2-Dichlorobenzene | 0.798 | U | 0.231 | 0.291 | 29.0 | 36.4 | 1 | 10.0-120 | J | J | 22.8 | 38 |
| 1,3-Dichlorobenzene | 0.798 | U | 0.221 | 0.285 | 27.7 | 35.7 | 1 | 10.0-120 | J | J | 25.0 | 40 |
| 1,4-Dichlorobenzene | 0.798 | U | 0.245 | 0.315 | 30.6 | 39.5 | 1 | 10.0-120 | J | J | 25.2 | 39 |
| 3,3-Dichlorobenzidine | 1.59 | U | 0.773 | 0.773 | 48.5 | 48.5 | 1 | 10.0-120 | | | 0.000 | 34 |
| 2,4-Dinitrotoluene | 0.798 | U | 0.427 | 0.454 | 53.5 | 56.9 | 1 | 30.0-120 | | | 6.08 | 31 |

# QUALITY CONTROL SUMMARY

L1740668-21,22,23

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.798 | U | 0.421 | 0.427 | 52.7 | 53.5 | 1 | 25.0-120 | | | 1.43 | 31 |
| Fluoranthene | 0.798 | 0.119 | 0.717 | 0.538 | 74.9 | 52.5 | 1 | 18.0-126 | | | 28.5 | 32 |
| Fluorene | 0.798 | 0.00824 | 0.461 | 0.419 | 56.7 | 51.4 | 1 | 25.0-120 | | | 9.68 | 30 |
| Hexachlorobenzene | 0.798 | U | 0.484 | 0.426 | 60.7 | 53.4 | 1 | 27.0-120 | | | 12.8 | 28 |
| Hexachloro-1,3-butadiene | 0.798 | U | 0.254 | 0.288 | 31.9 | 36.1 | 1 | 10.0-120 | J | J | 12.6 | 38 |
| Hexachlorocyclopentadiene | 0.798 | U | 0.0301 | 0.0651 | 3.77 | 8.16 | 1 | 10.0-120 | J J6 | J J3 J6 | 73.7 | 40 |
| Hexachloroethane | 0.798 | U | 0.214 | 0.305 | 26.8 | 38.3 | 1 | 10.0-120 | J | J | 35.1 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.798 | 0.129 | 0.793 | 0.566 | 83.2 | 54.7 | 1 | 10.0-120 | | J3 | 33.5 | 32 |
| Isophorone | 0.798 | U | 0.236 | 0.273 | 29.6 | 34.1 | 1 | 13.0-120 | J | J | 14.4 | 34 |
| Naphthalene | 0.798 | 0.0107 | 0.260 | 0.291 | 31.3 | 35.1 | 1 | 10.0-120 | | | 11.0 | 35 |
| Nitrobenzene | 0.798 | U | 0.191 | 0.248 | 23.9 | 31.1 | 1 | 10.0-120 | J | J | 26.0 | 36 |
| n-Nitrosodimethylamine | 0.798 | U | 0.163 | 0.212 | 20.4 | 26.5 | 1 | 10.0-127 | J | J | 26.0 | 40 |
| n-Nitrosodiphenylamine | 0.798 | U | 0.462 | 0.420 | 57.9 | 52.6 | 1 | 17.0-120 | | | 9.66 | 29 |
| n-Nitrosodi-n-propylamine | 0.798 | U | 0.248 | 0.293 | 31.1 | 36.7 | 1 | 10.0-120 | J | J | 16.6 | 37 |
| Phenanthrene | 0.798 | 0.0555 | 0.571 | 0.467 | 64.5 | 51.6 | 1 | 17.0-120 | | | 19.9 | 31 |
| Benzylbutyl phthalate | 0.798 | U | 0.534 | 0.471 | 66.9 | 59.0 | 1 | 23.0-120 | | | 12.6 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.798 | 0.103 | 0.664 | 0.540 | 70.4 | 54.8 | 1 | 17.0-126 | | | 20.6 | 30 |
| Di-n-butyl phthalate | 0.798 | U | 0.495 | 0.443 | 62.0 | 55.5 | 1 | 30.0-120 | | | 11.2 | 29 |
| Diethyl phthalate | 0.798 | U | 0.493 | 0.469 | 61.7 | 58.7 | 1 | 26.0-120 | | | 5.06 | 28 |
| Dimethyl phthalate | 0.798 | U | 0.428 | 0.405 | 53.7 | 50.8 | 1 | 25.0-120 | | J | 5.55 | 29 |
| Di-n-octyl phthalate | 0.798 | U | 0.540 | 0.504 | 67.7 | 63.1 | 1 | 21.0-123 | | | 6.99 | 29 |
| Pyrene | 0.798 | 0.153 | 0.744 | 0.537 | 73.9 | 48.0 | 1 | 16.0-121 | | J3 | 32.3 | 32 |
| 1,2,4-Trichlorobenzene | 0.798 | U | 0.269 | 0.296 | 33.7 | 37.0 | 1 | 12.0-120 | J | J | 9.48 | 37 |
| 4-Chloro-3-methylphenol | 0.798 | U | 0.406 | 0.359 | 50.9 | 45.0 | 1 | 15.0-120 | | J | 12.4 | 30 |
| 2-Chlorophenol | 0.798 | U | 0.269 | 0.330 | 33.7 | 41.3 | 1 | 15.0-120 | J | J | 20.3 | 37 |
| 2,4-Dichlorophenol | 0.798 | U | 0.336 | 0.341 | 42.1 | 42.7 | 1 | 20.0-120 | J | J | 1.44 | 31 |
| 2,4-Dimethylphenol | 0.798 | U | 0.302 | 0.305 | 37.8 | 38.3 | 1 | 10.0-120 | J | J | 1.20 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.798 | U | 0.523 | 0.494 | 65.5 | 61.9 | 1 | 10.0-120 | | | 5.74 | 39 |
| 2,4-Dinitrophenol | 0.798 | U | 0.451 | 0.372 | 56.6 | 46.6 | 1 | 10.0-121 | | J | 19.2 | 40 |
| 2-Nitrophenol | 0.798 | U | 0.262 | 0.330 | 32.8 | 41.3 | 1 | 12.0-120 | J | J | 23.0 | 39 |
| 4-Nitrophenol | 0.798 | U | 0.511 | 0.483 | 64.0 | 60.5 | 1 | 10.0-137 | | | 5.63 | 32 |
| Pentachlorophenol | 0.798 | U | 0.409 | 0.341 | 51.2 | 42.7 | 1 | 10.0-160 | | J | 18.2 | 31 |
| Phenol | 0.798 | U | 0.277 | 0.333 | 34.8 | 41.8 | 1 | 12.0-120 | J | J | 18.3 | 38 |
| 2,4,6-Trichlorophenol | 0.798 | U | 0.432 | 0.411 | 54.1 | 51.5 | 1 | 19.0-120 | | | 4.91 | 32 |
| *(S) 2-Fluorophenol* | | | | | *34.5* | *43.7* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *37.2* | *43.9* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *22.8* | *30.5* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *45.1* | *44.8* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *59.5* | *54.1* | | *10.0-127* | | | | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *59.8* | *54.0* | | *10.0-120* | | | | |

## Method Blank (MB)

(MB) R4078362-2 06/06/24 14:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4078362-2 06/06/24 14:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *25.2* | | | *12.0-120* |
| *(S) Phenol-d5* | *24.2* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *21.3* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *21.0* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *25.1* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *22.0* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078362-1 06/06/24 14:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.414 | 62.2 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.424 | 63.7 | 40.0-120 | |
| Anthracene | 0.666 | 0.447 | 67.1 | 42.0-120 | |
| Benzidine | 1.33 | 0.406 | 30.5 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.482 | 72.4 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.418 | 62.8 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.418 | 62.8 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.422 | 63.4 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.421 | 63.2 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.354 | 53.2 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.506 | 76.0 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078362-1 06/06/24 14:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.354 | 53.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.504 | 75.7 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.386 | 58.0 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.475 | 71.3 | 40.0-120 | |
| Chrysene | 0.666 | 0.457 | 68.6 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.463 | 69.5 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.371 | 55.7 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.365 | 54.8 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.370 | 55.6 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.909 | 68.3 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.471 | 70.7 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.449 | 67.4 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.464 | 69.7 | 44.0-120 | |
| Fluorene | 0.666 | 0.442 | 66.4 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.492 | 73.9 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.389 | 58.4 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.441 | 66.2 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.420 | 63.1 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.455 | 68.3 | 45.0-120 | |
| Isophorone | 0.666 | 0.394 | 59.2 | 23.0-120 | |
| Naphthalene | 0.666 | 0.338 | 50.8 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.426 | 64.0 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.476 | 71.5 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.423 | 63.5 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.458 | 68.8 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.444 | 66.7 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.468 | 70.3 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.455 | 68.3 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.461 | 69.2 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.492 | 73.9 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.484 | 72.7 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.479 | 71.9 | 40.0-120 | |
| Pyrene | 0.666 | 0.457 | 68.6 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.380 | 57.1 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.429 | 64.4 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.377 | 56.6 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.419 | 62.9 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.415 | 62.3 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.475 | 71.3 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.472 | 70.9 | 10.0-120 | |

# QUALITY CONTROL SUMMARY

L1740668-01,02,03

## Laboratory Control Sample (LCS)

(LCS) R4078362-1 06/06/24 14:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.391 | 58.7 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.304 | 45.6 | 27.0-120 | J |
| Pentachlorophenol | 0.666 | 0.351 | 52.7 | 29.0-120 | |
| Phenol | 0.666 | 0.412 | 61.9 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.388 | 58.3 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *71.8* | *12.0-120* | |
| *(S) Phenol-d5* | | | *67.0* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *57.1* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *61.9* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *88.1* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *80.8* | *10.0-120* | |

## L1740403-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740403-07 06/06/24 19:16 • (MS) R4078362-3 06/06/24 19:37 • (MSD) R4078362-4 06/06/24 19:58

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.777 | U | 0.513 | 0.522 | 66.1 | 67.1 | 10 | 18.0-120 | | | 1.59 | 32 |
| Acenaphthylene | 0.777 | U | 0.569 | 0.533 | 73.2 | 68.6 | 10 | 25.0-120 | | | 6.41 | 32 |
| Anthracene | 0.777 | U | 0.610 | 0.559 | 78.5 | 72.0 | 10 | 22.0-120 | | | 8.66 | 29 |
| Benzidine | 1.55 | U | U | U | 0.000 | 0.000 | 10 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.777 | U | 0.689 | 0.569 | 88.6 | 73.2 | 10 | 25.0-120 | | | 19.1 | 29 |
| Benzo(b)fluoranthene | 0.777 | U | 0.681 | 0.580 | 87.6 | 74.7 | 10 | 19.0-122 | | | 15.9 | 31 |
| Benzo(k)fluoranthene | 0.777 | U | 0.604 | 0.522 | 77.7 | 67.1 | 10 | 23.0-120 | | | 14.6 | 30 |
| Benzo(g,h,i)perylene | 0.777 | U | 0.475 | 0.430 | 61.1 | 55.3 | 10 | 10.0-120 | | | 9.90 | 33 |
| Benzo(a)pyrene | 0.777 | U | 0.592 | 0.568 | 76.2 | 73.0 | 10 | 24.0-120 | | | 4.26 | 30 |
| Bis(2-chlorethoxy)methane | 0.777 | U | 0.568 | 0.480 | 73.0 | 61.8 | 10 | 10.0-120 | J | J | 16.6 | 34 |
| Bis(2-chloroethyl)ether | 0.777 | U | 0.512 | 0.424 | 65.9 | 54.5 | 10 | 10.0-120 | J | J | 18.9 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.777 | U | 0.447 | 0.451 | 57.6 | 58.0 | 10 | 10.0-120 | J | J | 0.786 | 40 |
| 4-Bromophenyl-phenylether | 0.777 | U | 0.702 | 0.651 | 90.3 | 83.8 | 10 | 27.0-120 | J | J | 7.48 | 30 |
| 2-Chloronaphthalene | 0.777 | U | 0.479 | 0.475 | 61.7 | 61.1 | 10 | 20.0-120 | | | 0.988 | 32 |
| 4-Chlorophenyl-phenylether | 0.777 | U | 0.553 | 0.546 | 71.2 | 70.3 | 10 | 24.0-120 | J | J | 1.28 | 29 |
| Chrysene | 0.777 | U | 0.679 | 0.563 | 87.4 | 72.4 | 10 | 21.0-120 | | | 18.8 | 29 |
| Dibenz(a,h)anthracene | 0.777 | U | 0.486 | 0.507 | 62.6 | 65.3 | 10 | 10.0-120 | | | 4.27 | 32 |
| 1,2-Dichlorobenzene | 0.777 | U | 0.467 | 0.440 | 60.2 | 56.7 | 10 | 10.0-120 | J | J | 5.97 | 38 |
| 1,3-Dichlorobenzene | 0.777 | U | 0.447 | 0.423 | 57.6 | 54.4 | 10 | 10.0-120 | J | J | 5.68 | 40 |
| 1,4-Dichlorobenzene | 0.777 | U | 0.470 | 0.458 | 60.5 | 58.9 | 10 | 10.0-120 | J | J | 2.54 | 39 |
| 3,3-Dichlorobenzidine | 1.55 | U | 1.16 | 1.09 | 74.5 | 70.3 | 10 | 10.0-120 | J | J | 5.86 | 34 |
| 2,4-Dinitrotoluene | 0.777 | U | 0.586 | 0.606 | 75.5 | 78.0 | 10 | 30.0-120 | J | J | 3.36 | 31 |

## L1740403-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740403-07 06/06/24 19:16 • (MS) R4078362-3 06/06/24 19:37 • (MSD) R4078362-4 06/06/24 19:58

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.777 | U | 0.595 | 0.619 | 76.5 | 79.7 | 10 | 25.0-120 | J | J | 4.07 | 31 |
| Fluoranthene | 0.777 | U | 0.730 | 0.678 | 93.9 | 87.3 | 10 | 18.0-126 | | | 7.36 | 32 |
| Fluorene | 0.777 | U | 0.595 | 0.551 | 76.5 | 70.9 | 10 | 25.0-120 | | | 7.61 | 30 |
| Hexachlorobenzene | 0.777 | U | 0.702 | 0.675 | 90.3 | 86.8 | 10 | 27.0-120 | J | J | 3.93 | 28 |
| Hexachloro-1,3-butadiene | 0.777 | U | 0.535 | 0.549 | 68.8 | 70.6 | 10 | 10.0-120 | J | J | 2.61 | 38 |
| Hexachlorocyclopentadiene | 0.777 | U | U | U | 0.000 | 0.000 | 10 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Hexachloroethane | 0.777 | U | 0.512 | 0.464 | 65.9 | 59.7 | 10 | 10.0-120 | J | J | 9.89 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.777 | U | 0.537 | 0.446 | 69.1 | 57.4 | 10 | 10.0-120 | | | 18.4 | 32 |
| Isophorone | 0.777 | U | 0.624 | 0.558 | 80.3 | 71.8 | 10 | 13.0-120 | J | J | 11.2 | 34 |
| Naphthalene | 0.777 | U | 0.471 | 0.466 | 60.6 | 60.0 | 10 | 10.0-120 | | | 1.01 | 35 |
| Nitrobenzene | 0.777 | U | 0.609 | 0.558 | 78.3 | 71.8 | 10 | 10.0-120 | J | J | 8.68 | 36 |
| n-Nitrosodimethylamine | 0.777 | U | U | U | 0.000 | 0.000 | 10 | 10.0-127 | J6 | J6 | 0.000 | 40 |
| n-Nitrosodiphenylamine | 0.777 | U | 0.553 | 0.580 | 71.2 | 74.7 | 10 | 17.0-120 | J | J | 4.78 | 29 |
| n-Nitrosodi-n-propylamine | 0.777 | U | 0.610 | 0.661 | 78.5 | 85.0 | 10 | 10.0-120 | J | J | 7.97 | 37 |
| Phenanthrene | 0.777 | U | 0.621 | 0.525 | 79.8 | 67.6 | 10 | 17.0-120 | | | 16.6 | 31 |
| Benzylbutyl phthalate | 0.777 | U | 0.546 | 0.516 | 70.3 | 66.4 | 10 | 23.0-120 | J | J | 5.76 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.777 | U | 0.595 | 0.546 | 76.5 | 70.3 | 10 | 17.0-126 | J | J | 8.46 | 30 |
| Di-n-butyl phthalate | 0.777 | U | 0.598 | 0.605 | 77.0 | 77.9 | 10 | 30.0-120 | J | J | 1.17 | 29 |
| Diethyl phthalate | 0.777 | U | 0.591 | 0.585 | 76.1 | 75.3 | 10 | 26.0-120 | J | J | 1.00 | 28 |
| Dimethyl phthalate | 0.777 | U | U | U | 84.7 | 70.8 | 10 | 25.0-120 | J | J | 17.9 | 29 |
| Di-n-octyl phthalate | 0.777 | U | 0.609 | 0.580 | 78.3 | 74.7 | 10 | 21.0-123 | J | J | 4.75 | 29 |
| Pyrene | 0.777 | U | 0.666 | 0.582 | 85.8 | 74.8 | 10 | 16.0-121 | | | 13.6 | 32 |
| 1,2,4-Trichlorobenzene | 0.777 | U | 0.592 | 0.507 | 76.2 | 65.3 | 10 | 12.0-120 | J | J | 15.4 | 37 |
| 4-Chloro-3-methylphenol | 0.777 | U | 0.653 | 0.406 | 84.1 | 52.3 | 10 | 15.0-120 | J | J J3 | 46.7 | 30 |
| 2-Chlorophenol | 0.777 | U | 0.531 | 0.450 | 68.3 | 57.9 | 10 | 15.0-120 | J | J | 16.6 | 37 |
| 2,4-Dichlorophenol | 0.777 | U | 0.504 | 0.466 | 64.8 | 60.0 | 10 | 20.0-120 | J | J | 7.77 | 31 |
| 2,4-Dimethylphenol | 0.777 | U | 0.497 | 0.389 | 63.9 | 50.0 | 10 | 10.0-120 | J | J | 24.5 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.777 | U | U | U | 46.2 | 38.9 | 10 | 10.0-120 | J | J | 17.1 | 39 |
| 2,4-Dinitrophenol | 0.660 | U | U | U | 0.000 | 0.000 | 10 | 10.0-121 | J6 | J6 | 0.000 | 40 |
| 2-Nitrophenol | 0.777 | U | 0.332 | 0.279 | 42.7 | 35.9 | 10 | 12.0-120 | J | J | 17.3 | 39 |
| 4-Nitrophenol | 0.777 | U | 0.184 | U | 23.6 | 0.000 | 10 | 10.0-137 | J | J3 J6 | 200 | 32 |
| Pentachlorophenol | 0.777 | U | 0.284 | 0.298 | 36.5 | 38.3 | 10 | 10.0-160 | J | J | 4.86 | 31 |
| Phenol | 0.777 | U | 0.692 | 0.528 | 89.1 | 67.9 | 10 | 12.0-120 | J | J | 27.0 | 38 |
| 2,4,6-Trichlorophenol | 0.777 | U | 0.358 | 0.365 | 46.1 | 47.0 | 10 | 19.0-120 | J | J | 1.95 | 32 |
| *(S) 2-Fluorophenol* | | | | | *69.4* | *67.7* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *75.3* | *67.1* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *55.2* | *74.5* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *70.0* | *69.7* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *64.5* | *53.5* | | *10.0-127* | | | | |

## L1740403-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740403-07 06/06/24 19:16 • (MS) R4078362-3 06/06/24 19:37 • (MSD) R4078362-4 06/06/24 19:58

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *75.8* | *75.5* | | *10.0-120* | | | | |

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure

## Method Blank (MB)

(MB) R4078331-2 06/06/24 13:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4078331-2 06/06/24 13:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *21.8* | | | *12.0-120* |
| *(S) Phenol-d5* | *19.5* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *18.6* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *21.3* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *12.7* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *21.1* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078331-1 06/06/24 13:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.410 | 61.6 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.450 | 67.6 | 40.0-120 | |
| Anthracene | 0.666 | 0.471 | 70.7 | 42.0-120 | |
| Benzidine | 1.33 | 0.638 | 48.0 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.485 | 72.8 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.448 | 67.3 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.473 | 71.0 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.409 | 61.4 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.475 | 71.3 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.346 | 52.0 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.388 | 58.3 | 16.0-120 | |

Cp Tc Ss Cn Ds Sr Qc Gl Al Sc

# QUALITY CONTROL SUMMARY

L1740668-11,12,13,16,17,18

## Laboratory Control Sample (LCS)

(LCS) R4078331-1 06/06/24 13:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.376 | 56.5 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.359 | 53.9 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.403 | 60.5 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.434 | 65.2 | 40.0-120 | |
| Chrysene | 0.666 | 0.487 | 73.1 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.401 | 60.2 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.396 | 59.5 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.384 | 57.7 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.390 | 58.6 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.756 | 56.8 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.519 | 77.9 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.515 | 77.3 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.428 | 64.3 | 44.0-120 | |
| Fluorene | 0.666 | 0.456 | 68.5 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.304 | 45.6 | 39.0-120 | J |
| Hexachloro-1,3-butadiene | 0.666 | 0.358 | 53.8 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.326 | 48.9 | 15.0-120 | J |
| Hexachloroethane | 0.666 | 0.369 | 55.4 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.387 | 58.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.347 | 52.1 | 23.0-120 | |
| Naphthalene | 0.666 | 0.349 | 52.4 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.339 | 50.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.334 | 50.2 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.425 | 63.8 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.406 | 61.0 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.456 | 68.5 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.582 | 87.4 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.581 | 87.2 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.445 | 66.8 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.491 | 73.7 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.464 | 69.7 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.571 | 85.7 | 40.0-120 | |
| Pyrene | 0.666 | 0.516 | 77.5 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.357 | 53.6 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.354 | 53.2 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.414 | 62.2 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.328 | 49.2 | 25.0-120 | J |
| 2,4-Dimethylphenol | 0.666 | 0.376 | 56.5 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.637 | 95.6 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.619 | 92.9 | 10.0-120 | |

# QUALITY CONTROL SUMMARY

L1740668-11,12,13,16,17,18

## Laboratory Control Sample (LCS)

(LCS) R4078331-1 06/06/24 13:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.429 | 64.4 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.587 | 88.1 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.386 | 58.0 | 29.0-120 | |
| Phenol | 0.666 | 0.334 | 50.2 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.427 | 64.1 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *65.3* | *12.0-120* | |
| *(S) Phenol-d5* | | | *49.4* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *46.5* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *62.2* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *43.1* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *64.6* | *10.0-120* | |

## L1740960-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740960-01 06/06/24 18:00 • (MS) R4078331-3 06/06/24 18:21 • (MSD) R4078331-4 06/06/24 18:42

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.667 | U | 0.414 | 0.437 | 62.1 | 65.6 | 10 | 18.0-120 | | | 5.58 | 32 |
| Acenaphthylene | 0.667 | U | 0.450 | 0.469 | 67.5 | 70.4 | 10 | 25.0-120 | | | 4.26 | 32 |
| Anthracene | 0.667 | U | 0.457 | 0.468 | 68.6 | 70.3 | 10 | 22.0-120 | | | 2.45 | 29 |
| Benzidine | 1.33 | U | 1.10 | 1.12 | 82.9 | 84.5 | 10 | 10.0-120 | J | J | 1.85 | 40 |
| Benzo(a)anthracene | 0.667 | U | 0.478 | 0.518 | 71.7 | 77.7 | 10 | 25.0-120 | | | 8.08 | 29 |
| Benzo(b)fluoranthene | 0.667 | U | 0.455 | 0.492 | 68.3 | 73.8 | 10 | 19.0-122 | | | 7.84 | 31 |
| Benzo(k)fluoranthene | 0.667 | U | 0.465 | 0.481 | 69.8 | 72.1 | 10 | 23.0-120 | | | 3.27 | 30 |
| Benzo(g,h,i)perylene | 0.667 | U | 0.363 | 0.360 | 54.5 | 54.0 | 10 | 10.0-120 | | | 0.856 | 33 |
| Benzo(a)pyrene | 0.667 | U | 0.469 | 0.484 | 70.4 | 72.6 | 10 | 24.0-120 | | | 3.03 | 30 |
| Bis(2-chlorethoxy)methane | 0.667 | U | 0.376 | 0.399 | 56.3 | 59.9 | 10 | 10.0-120 | J | J | 6.13 | 34 |
| Bis(2-chloroethyl)ether | 0.667 | U | 0.388 | 0.412 | 58.2 | 61.8 | 10 | 10.0-120 | J | J | 5.94 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.667 | U | 0.375 | 0.366 | 56.2 | 55.0 | 10 | 10.0-120 | J | J | 2.23 | 40 |
| 4-Bromophenyl-phenylether | 0.667 | U | 0.355 | 0.384 | 53.3 | 57.6 | 10 | 27.0-120 | J | J | 7.82 | 30 |
| 2-Chloronaphthalene | 0.667 | U | 0.414 | 0.443 | 62.1 | 66.4 | 10 | 20.0-120 | | | 6.75 | 32 |
| 4-Chlorophenyl-phenylether | 0.667 | U | 0.445 | 0.467 | 66.7 | 70.1 | 10 | 24.0-120 | J | J | 4.98 | 29 |
| Chrysene | 0.667 | U | 0.489 | 0.519 | 73.4 | 77.9 | 10 | 21.0-120 | | | 5.94 | 29 |
| Dibenz(a,h)anthracene | 0.667 | U | 0.364 | 0.371 | 54.6 | 55.7 | 10 | 10.0-120 | | | 1.96 | 32 |
| 1,2-Dichlorobenzene | 0.667 | U | 0.347 | 0.362 | 52.0 | 54.3 | 10 | 10.0-120 | J | J | 4.37 | 38 |
| 1,3-Dichlorobenzene | 0.667 | U | 0.335 | 0.329 | 50.3 | 49.4 | 10 | 10.0-120 | J | J | 1.86 | 40 |
| 1,4-Dichlorobenzene | 0.667 | U | 0.338 | 0.341 | 50.8 | 51.1 | 10 | 10.0-120 | J | J | 0.608 | 39 |
| 3,3-Dichlorobenzidine | 1.33 | U | 0.768 | 0.812 | 57.7 | 61.0 | 10 | 10.0-120 | J | J | 5.62 | 34 |
| 2,4-Dinitrotoluene | 0.667 | U | 0.487 | 0.508 | 73.1 | 76.2 | 10 | 30.0-120 | J | J | 4.15 | 31 |

## L1740960-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740960-01 06/06/24 18:00 • (MS) R4078331-3 06/06/24 18:21 • (MSD) R4078331-4 06/06/24 18:42

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.667 | U | 0.523 | 0.498 | 78.5 | 74.8 | 10 | 25.0-120 | J | J | 4.85 | 31 |
| Fluoranthene | 0.667 | U | 0.422 | 0.435 | 63.3 | 65.3 | 10 | 18.0-126 | | | 3.13 | 32 |
| Fluorene | 0.667 | U | 0.456 | 0.500 | 68.4 | 75.1 | 10 | 25.0-120 | | | 9.28 | 30 |
| Hexachlorobenzene | 0.667 | U | 0.293 | 0.307 | 44.0 | 46.1 | 10 | 27.0-120 | J | J | 4.81 | 28 |
| Hexachloro-1,3-butadiene | 0.667 | U | 0.394 | 0.424 | 59.1 | 63.6 | 10 | 10.0-120 | J | J | 7.31 | 38 |
| Hexachlorocyclopentadiene | 0.667 | U | U | U | 12.0 | 10.4 | 10 | 10.0-120 | J | J | 14.4 | 40 |
| Hexachloroethane | 0.667 | U | 0.274 | 0.290 | 41.2 | 43.5 | 10 | 10.0-120 | J | J | 5.48 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.667 | U | 0.356 | 0.368 | 53.4 | 55.3 | 10 | 10.0-120 | | | 3.42 | 32 |
| Isophorone | 0.667 | U | 0.376 | 0.416 | 56.3 | 62.4 | 10 | 13.0-120 | J | J | 10.2 | 34 |
| Naphthalene | 0.667 | U | 0.367 | 0.412 | 55.1 | 61.8 | 10 | 10.0-120 | | | 11.4 | 35 |
| Nitrobenzene | 0.667 | U | 0.352 | 0.395 | 52.8 | 59.3 | 10 | 10.0-120 | J | J | 11.6 | 36 |
| n-Nitrosodimethylamine | 0.667 | U | U | U | 0.000 | 0.000 | 10 | 10.0-127 | J6 | J6 | 0.000 | 40 |
| n-Nitrosodiphenylamine | 0.667 | U | 0.426 | 0.421 | 63.9 | 63.2 | 10 | 17.0-120 | J | J | 1.22 | 29 |
| n-Nitrosodi-n-propylamine | 0.667 | U | 0.383 | 0.412 | 57.4 | 61.8 | 10 | 10.0-120 | J | J | 7.27 | 37 |
| Phenanthrene | 0.667 | U | 0.445 | 0.473 | 66.7 | 70.9 | 10 | 17.0-120 | | | 6.07 | 31 |
| Benzylbutyl phthalate | 0.667 | U | 0.573 | 0.597 | 85.9 | 89.6 | 10 | 23.0-120 | J | J | 4.23 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.667 | U | 0.610 | 0.633 | 91.5 | 94.9 | 10 | 17.0-126 | J | J | 3.65 | 30 |
| Di-n-butyl phthalate | 0.667 | U | 0.448 | 0.451 | 67.2 | 67.6 | 10 | 30.0-120 | J | J | 0.689 | 29 |
| Diethyl phthalate | 0.667 | U | 0.481 | 0.523 | 72.1 | 78.5 | 10 | 26.0-120 | J | J | 8.43 | 28 |
| Dimethyl phthalate | 0.667 | U | U | U | 67.0 | 68.9 | 10 | 25.0-120 | J | J | 2.73 | 29 |
| Di-n-octyl phthalate | 0.667 | U | 0.572 | 0.592 | 85.8 | 88.9 | 10 | 21.0-123 | J | J | 3.55 | 29 |
| Pyrene | 0.667 | U | 0.500 | 0.520 | 75.1 | 78.0 | 10 | 16.0-121 | | | 3.84 | 32 |
| 1,2,4-Trichlorobenzene | 0.667 | U | 0.391 | 0.421 | 58.7 | 63.2 | 10 | 12.0-120 | J | J | 7.37 | 37 |
| 4-Chloro-3-methylphenol | 0.667 | U | 0.433 | 0.442 | 65.0 | 66.3 | 10 | 15.0-120 | J | J | 1.89 | 30 |
| 2-Chlorophenol | 0.667 | U | 0.396 | 0.433 | 59.4 | 65.0 | 10 | 15.0-120 | J | J | 8.96 | 37 |
| 2,4-Dichlorophenol | 0.667 | U | 0.456 | 0.514 | 68.4 | 77.1 | 10 | 20.0-120 | J | J | 11.9 | 31 |
| 2,4-Dimethylphenol | 0.667 | U | 0.532 | 0.562 | 79.9 | 84.4 | 10 | 10.0-120 | J | J | 5.47 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.667 | U | U | U | 47.8 | 44.6 | 10 | 10.0-120 | J | J | 7.04 | 39 |
| 2,4-Dinitrophenol | 0.667 | U | U | U | 0.000 | 0.000 | 10 | 10.0-121 | J6 | J6 | 0.000 | 40 |
| 2-Nitrophenol | 0.667 | U | 0.427 | 0.469 | 64.1 | 70.4 | 10 | 12.0-120 | J | J | 9.44 | 39 |
| 4-Nitrophenol | 0.667 | U | 0.580 | 0.626 | 87.0 | 94.0 | 10 | 10.0-137 | J | J | 7.70 | 32 |
| Pentachlorophenol | 0.667 | U | 0.494 | 0.479 | 74.1 | 71.8 | 10 | 10.0-160 | J | J | 3.18 | 31 |
| Phenol | 0.667 | U | 0.374 | 0.391 | 56.0 | 58.7 | 10 | 12.0-120 | J | J | 4.59 | 38 |
| 2,4,6-Trichlorophenol | 0.667 | U | 0.508 | 0.513 | 76.2 | 76.9 | 10 | 19.0-120 | J | J | 1.01 | 32 |
| *(S) 2-Fluorophenol* | | | | | *60.5* | *59.8* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *55.0* | *59.9* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *49.2* | *52.9* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *66.3* | *67.2* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *46.0* | *48.6* | | *10.0-127* | | | | |

## L1740960-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740960-01 06/06/24 18:00 • (MS) R4078331-3 06/06/24 18:21 • (MSD) R4078331-4 06/06/24 18:42

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | | % | % | | % | | | % | % |
| *(S) p-Terphenyl-d14* | | | | | *62.5* | *65.9* | | *10.0-120* | | | | |

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure.

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: (PT) MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately
Packed on Ice N ___ Y X

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

Quote #
P1076441

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 4

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740668
Table H225

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gamblll**
PB:

Shipped Via: **FedEX Ground**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-D2-1-1.0 | Grab | SS | 1.0 | 5/24/24 | 1210 | 4 | ○ | ○ | ● | ● | ● | | | -01 |
| G-D2-1-2.0 | Grab | SS | 2.0 | | 1225 | 4 | ○ | ○ | ● | ○ | ● | ● | | -02 |
| G-D2-1-3.0 | Grab | SS | 3.0 | | 1235 | 4 | ● | ● | ● | ○ | ● | ● | | -03 |
| G-D2-1-4.0 | Grab | SS | 4.0 | | 1245 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -04 |
| G-D2-1-5.0 | Grab | SS | 5.0 | | 1255 | 4 | ● | ● | ○ | ○ | ○ | ● | | -05 |
| P-11-12.5 | Grab | SS | 12.5 | 5/24/24 | 0915 | 4 | ⊗ | ⊗ | | | | ⊗ | | -06 |
| SVP-53-S-4.0 | Grab | SS | 4.0 | 5/24/24 | 1015 | 4 | ● | ● | | | | ● | | -07 |
| SVP-57-S-6.0 | Grab | SS | 6.0 | 5/24/24 | 1146 | 4 | ● | ● | | | | ● | | -08 |
| TB-052424. | | W | - | 05/24/24 | 1200 | 2 | | | | | X | | | -09 |
| EB-052424. | | W | - | | 1200 | 4-9 | X | X | X | | | X | | -10 |

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

**Remarks:** ● = ANALYZE ⊗ = Analyze ○ = HOLD

pH ____ Temp ____
Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No (HCL / MeoH TBR) | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/24/24 | 1609 | pace | 2 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| pace | 5/24/24 | 1630 | SWA Cargo | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | Easton Organ | 5/25/24 1200 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately
Packed on Ice N ___ Y X

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

**Quote #**
P1076441

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH 10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-D1-1-1.0 | Grab | SS | 1.0 | 5/24/24 | 1030 | 4 | ○ | ○ | ● | ● | ● | | | 71 |
| G-D1-1-2.0 | Grab | SS | 2.0 | | 1035 | 4 | ○ | ○ | ● | ○ | ● | ● | | 72 |
| G-D1-1-3.0 | Grab | SS | 3.0 | | 1055 | 4 | ● | ● | ● | ○ | ● | ● | | 73 |
| G-D1-1-4.0 | Grab | SS | 4.0 | | 1105 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | 74 |
| G-D1-1-5.0 | Grab | SS | 5.0 | | 1115 | 4 | ● | ● | ○ | ○ | ○ | ● | | 75 |
| | | SS | | | | | | | | | | | | |

Chain of Custody Page 2 of 4

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740868

Table #

Acctnum: **ROUXOCA**
Template:**T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 05/24/24 | 1609 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: |
| | 5/24/24 | 1620 | SWA Courier | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: |
| | | | | 5/24 1200 |

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Page 3 of 4

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately
Packed on Ice N ___ Y X

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

Quote #
P1076441

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-D1-1-1.0 | Grab | SS | 1.0 | 5/24/24 | 0850 | 4 | ○ | ○ | ● | ● | ● | | | -16 |
| BS-D1-1-2.0 | Grab | SS | 2.0 | | 0900 | 4 | ○ | ○ | ● | ○ | ● | ● | | -17 |
| BS-D1-1-3.0 | Grab | SS | 3.0 | | 0915 | 4 | ● | ● | ● | ○ | ● | ● | | -18 |
| BS-D1-1-4.0 | Grab | SS | 4.0 | | 0925 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -19 |
| BS-D1-1-5.0 | Grab | SS | 5.0 | | 0940 | 4 | ● | ● | ○ | ○ | ○ | ● | | -20 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 3 of 4

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740605

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:** ● = ANALYZE ○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| | Date: | Time: | | |
|---|---|---|---|---|
| Relinquished by : (Signature) | 05/24/24 | 1609 | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
| Relinquished by : (Signature) | 5/24/24 | 1630 | Received by: (Signature) SWA Cargo | Temp: °C Bottles Received: |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 5/25/24 Time: 1700 |

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Chain of Custody Page 4 of 4

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately
Packed on Ice N ___ Y X

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

Quote #
P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-D3-1-1.0 | Grab | SS | 1.0 | 5/24/24 | 1438 | 3/4 | ○ | ○ | ● | ● | ● | | | -21 |
| G-D3-1-2.0 | Grab | SS | 2.0 | | 1444 | 4 | ○ | ○ | ● | ○ | ● | ● | | -22 |
| G-D3-1-3.0 | Grab | SS | 3.0 | | 1450 | 4 | ● | ● | ● | ○ | ● | ● | | -23 |
| G-D3-1-4.0 | Grab | SS | 4.0 | | 1457 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -24 |
| G-D3-1-5.0 | Grab | SS | 5.0 | ↓ | 1500 | 4 | ● | ● | ○ | ○ | ○ | ● | | -25 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740665

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/24/24 | 1609 | Pace | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| Pace | 5/24/24 | 1650 | SWA Cus | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: |
| | | | Easton Organ | 5/25/24 | 1200 | | NCF / OK |

LT7402668

| Tracking Numbers | Temperature |
|---|---|
| SW | 2.3 +0.1 = 2.4 EDA6 |
| SW | 1.8 +0.1 = 1.9 EDA6 |
| SW | 1.3 +0.1 = 1.4 EDA6 |
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Easton Oppen
Name

5/25/24
Date

## 5/25 NCF-ROUXOCA L1740668

R5

**Time estimate:** oh **Time spent:** oh

**Members**

Nicolle Faulk (responsible) Jennifer Gambill

Due on *31 May 2024 5:00 PM* for target *Done*

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [x] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

**Comments**

*Nicolle Faulk* *25 May 2024 5:39 PM*

- Trip blank ID is marked for SV8270. We received 2 HCL trip blanks. Currently have these logged for V8260
- Received the following additional IDs: G/UC-BY-1-1.0, 2.0, 3.0, 4.0, 5.0, 8.0, 10.0

*Jennifer Gambill* *28 May 2024 12:21 PM*

Please run Trip Blank for V8260.

*Jennifer Gambill* *28 May 2024 2:02 PM*

Chain of custody received for additional samples.

*Matthew Shacklock* *30 May 2024 9:25 AM*

Is the additional samples being logged to own number or added to this one?

*Jennifer Gambill* *30 May 2024 10:18 AM*

We can log to a new SDG.

*Nicolle Faulk* *4 June 2024 12:35 PM*

L1742685, done

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1740925 |
| Samples Received: | 05/29/2024 |
| Project Number: | ROUX ASSOCIATES INC |
| Description: | AB&I Redevlopment |
| Site: | ABI FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## SVP-45-8-5.0 L1740925-01 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 11:10 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 11:10 | 06/02/24 16:56 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297487 | 1 | 05/28/24 11:10 | 06/04/24 02:23 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2299252 | 1 | 05/28/24 11:10 | 06/05/24 21:10 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 5 | 06/04/24 16:42 | 06/05/24 00:55 | JAS | Mt. Juliet, TN |

## SVP-06-8-5.0 L1740925-02 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 09:38 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 09:38 | 06/02/24 17:19 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297487 | 1 | 05/28/24 09:38 | 06/04/24 02:43 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 2 | 06/04/24 16:42 | 06/05/24 11:26 | JAS | Mt. Juliet, TN |

## EB-052824 L1740925-03 GW

Collected by: Dylan B | Collected date/time: 05/28/24 15:20 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2294959 | 1 | 06/01/24 11:35 | 06/02/24 17:43 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2294965 | 1 | 05/30/24 09:33 | 05/30/24 20:22 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296317 | 1 | 06/04/24 08:40 | 06/04/24 21:34 | DJS | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2297585 | 1 | 06/05/24 10:59 | 06/19/24 00:59 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2305428 | 1 | 06/17/24 19:05 | 06/27/24 22:35 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297466 | 1 | 06/03/24 12:58 | 06/03/24 12:58 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297610 | 1 | 06/03/24 19:21 | 06/03/24 19:21 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 16:12 | MAA | Mt. Juliet, TN |

## G/BS-D4-1-1.0 L1740925-04 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 08:45 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295935 | 1 | 05/31/24 16:44 | 06/01/24 17:56 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:29 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/06/24 01:03 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 1 | 06/03/24 13:52 | 06/03/24 20:43 | LJD | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 5 | 06/03/24 13:52 | 06/04/24 14:13 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 10 | 06/05/24 11:12 | 06/08/24 00:22 | DSH | Mt. Juliet, TN |

## G/BS-D4-1-2.0 L1740925-05 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 08:50 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295935 | 1 | 05/31/24 16:44 | 06/01/24 17:41 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:31 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297487 | 1.34 | 05/28/24 08:50 | 06/04/24 03:03 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304143 | 1 | 06/14/24 01:34 | 06/14/24 21:52 | RDH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304143 | 10 | 06/14/24 01:34 | 06/21/24 01:17 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 17:40 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/BS-D4-1-3.0 L1740925-06 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 08:55 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295935 | 1 | 05/31/24 16:44 | 06/01/24 17:58 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:32 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 08:55 | 06/02/24 17:46 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 08:55 | 06/03/24 17:04 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 10 | 06/04/24 16:42 | 06/05/24 02:15 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 18:05 | DSH | Mt. Juliet, TN |

## G/BS-D4-1-4.0 L1740925-07 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 09:00 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300491 | 1 | 06/07/24 12:32 | 06/07/24 12:45 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2300577 | 1 | 06/07/24 13:14 | 06/09/24 17:31 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300670 | 1 | 06/12/24 07:45 | 06/13/24 18:22 | ZSA | Mt. Juliet, TN |

## G/BS-D4-1-5.0 L1740925-08 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 09:20 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 09:20 | 06/02/24 18:10 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 09:20 | 06/03/24 17:23 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 50 | 06/04/24 16:42 | 06/05/24 03:08 | JAS | Mt. Juliet, TN |

## G-E2-1-1.0 L1740925-09 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 11:45 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295935 | 1 | 05/31/24 16:44 | 06/01/24 18:01 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:34 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 1 | 06/03/24 13:52 | 06/03/24 20:52 | LJD | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 16:01 | DSH | Mt. Juliet, TN |

## G-E2-1-2.0 L1740925-10 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 11:55 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295935 | 1 | 05/31/24 16:44 | 06/01/24 18:03 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:36 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 11:55 | 06/03/24 17:42 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 16:51 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-E2-1-3.0 L1740925-11 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 12:05 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295935 | 1 | 05/31/24 16:44 | 06/01/24 18:06 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:37 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 12:05 | 06/02/24 18:33 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 12:05 | 06/03/24 18:01 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 1 | 06/04/24 16:42 | 06/05/24 00:29 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 15:36 | DSH | Mt. Juliet, TN |

## G-E2-1-5.0 L1740925-13 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 12:20 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 12:20 | 06/02/24 18:57 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 12:20 | 06/03/24 18:21 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 5 | 06/04/24 16:42 | 06/05/24 01:35 | JAS | Mt. Juliet, TN |

## G-E3-1-1.0 L1740925-14 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 10:05 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296247 | 1 | 05/31/24 11:25 | 05/31/24 11:34 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295935 | 1 | 05/31/24 16:44 | 06/01/24 18:08 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:39 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 1 | 06/03/24 13:52 | 06/03/24 21:01 | LJD | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 5 | 06/03/24 13:52 | 06/04/24 14:31 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 200 | 06/05/24 11:12 | 06/06/24 19:45 | DSH | Mt. Juliet, TN |

## G-E3-1-2.0 L1740925-15 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 10:10 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296010 | 1 | 05/31/24 06:57 | 05/31/24 07:03 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295935 | 1 | 05/31/24 16:44 | 06/01/24 18:11 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:41 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 10:10 | 06/03/24 18:39 | JAH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304143 | 1 | 06/14/24 01:34 | 06/14/24 22:01 | HCS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 13:57 | DSH | Mt. Juliet, TN |

## G-E3-1-3.0 L1740925-16 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 10:20 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296010 | 1 | 05/31/24 06:57 | 05/31/24 07:03 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295946 | 1 | 05/30/24 21:55 | 05/31/24 14:27 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:42 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 10:20 | 06/02/24 19:20 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 10:20 | 06/03/24 18:59 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 50 | 06/04/24 16:42 | 06/05/24 02:54 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 2 | 06/06/24 07:40 | 06/06/24 20:12 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-E3-1-4.0 L1740925-17 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 10:30 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300491 | 1 | 06/07/24 12:32 | 06/07/24 12:45 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2300577 | 1 | 06/07/24 13:14 | 06/09/24 17:34 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300670 | 1 | 06/12/24 07:45 | 06/13/24 18:24 | ZSA | Mt. Juliet, TN |

## G-E3-1-5.0 L1740925-18 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 10:40 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296010 | 1 | 05/31/24 06:57 | 05/31/24 07:03 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 10:40 | 06/02/24 19:43 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 10:40 | 06/03/24 19:18 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 10 | 06/04/24 16:42 | 06/05/24 02:01 | JAS | Mt. Juliet, TN |

## TB-052824 L1740925-19 GW

Collected by: Dylan B | Collected date/time: 05/28/24 00:00 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297610 | 1 | 06/03/24 19:42 | 06/03/24 19:42 | ADM | Mt. Juliet, TN |

## G-F1-1-1.0 L1740925-20 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 14:00 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296010 | 1 | 05/31/24 06:57 | 05/31/24 07:03 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295946 | 1 | 05/30/24 21:55 | 05/31/24 14:31 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:47 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2297376 | 1 | 06/03/24 13:52 | 06/03/24 21:11 | LJD | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 2 | 06/06/24 07:40 | 06/06/24 20:32 | DSH | Mt. Juliet, TN |

## G-F1-1-2.0 L1740925-21 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 14:10 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296010 | 1 | 05/31/24 06:57 | 05/31/24 07:03 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295946 | 1 | 05/30/24 21:55 | 05/31/24 14:33 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:49 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 14:10 | 06/03/24 19:37 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 2 | 06/06/24 07:40 | 06/06/24 20:53 | DSH | Mt. Juliet, TN |

## G-F1-1-3.0 L1740925-22 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 14:20 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296010 | 1 | 05/31/24 06:57 | 05/31/24 07:03 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2295946 | 1 | 05/30/24 21:55 | 05/31/24 14:40 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297398 | 1 | 06/04/24 06:50 | 06/05/24 11:51 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 14:20 | 06/02/24 20:07 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 14:20 | 06/03/24 19:56 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 10 | 06/04/24 16:42 | 06/05/24 02:28 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 2 | 06/06/24 07:40 | 06/06/24 21:13 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-F1-1-4.0 L1740925-23 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 14:30 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2311827 | 1 | 06/26/24 13:38 | 06/26/24 13:44 | JAV | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2313442 | 1 | 06/27/24 16:19 | 06/27/24 20:17 | ZSA | Mt. Juliet, TN |

## G-F1-1-5.0 L1740925-24 Solid

Collected by: Dylan B | Collected date/time: 05/28/24 14:40 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296010 | 1 | 05/31/24 06:57 | 05/31/24 07:03 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297113 | 25 | 05/28/24 14:40 | 06/02/24 20:30 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297589 | 1 | 05/28/24 14:40 | 06/03/24 20:15 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2298254 | 1 | 06/04/24 16:42 | 06/04/24 23:49 | JAS | Mt. Juliet, TN |

## P-06 L1740925-25 GW

Collected by: Dylan B | Collected date/time: 05/28/24 14:08 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2294959 | 1 | 06/01/24 11:35 | 06/02/24 17:46 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2294965 | 1 | 05/30/24 09:33 | 05/30/24 20:24 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296317 | 1 | 06/04/24 08:40 | 06/04/24 21:35 | DJS | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2297585 | 1 | 06/05/24 10:59 | 06/19/24 01:03 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2305428 | 1 | 06/17/24 19:05 | 06/27/24 22:38 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297466 | 1 | 06/03/24 14:07 | 06/03/24 14:07 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297610 | 1 | 06/03/24 20:47 | 06/03/24 20:47 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 16:32 | MAA | Mt. Juliet, TN |

## P-08 L1740925-26 GW

Collected by: Dylan B | Collected date/time: 05/28/24 13:00 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2294959 | 1 | 06/01/24 11:35 | 06/02/24 17:48 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2294965 | 1 | 05/30/24 09:33 | 05/30/24 20:26 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2296317 | 1 | 06/04/24 08:40 | 06/04/24 21:45 | DJS | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2297585 | 1 | 06/05/24 10:59 | 06/19/24 11:22 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2305428 | 1 | 06/17/24 19:05 | 06/27/24 23:29 | LD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2316050 | 1 | 07/03/24 09:03 | 07/03/24 11:17 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297466 | 1 | 06/03/24 14:30 | 06/03/24 14:30 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297610 | 1 | 06/03/24 21:08 | 06/03/24 21:08 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 16:53 | MAA | Mt. Juliet, TN |

## DUP-03 L1740925-27 GW

Collected by: Dylan B | Collected date/time: 05/28/24 12:00 | Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2294959 | 1 | 06/01/24 11:35 | 06/02/24 17:51 | AKB | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2294965 | 1 | 05/30/24 09:33 | 05/30/24 20:29 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297576 | 1 | 06/08/24 14:07 | 06/09/24 10:41 | DJS | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2297585 | 1 | 06/05/24 10:59 | 06/19/24 02:36 | SJM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2305428 | 1 | 06/17/24 19:05 | 06/27/24 22:45 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297466 | 1 | 06/03/24 14:53 | 06/03/24 14:53 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2297610 | 1 | 06/03/24 21:30 | 06/03/24 21:30 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2295250 | 1 | 05/30/24 17:12 | 05/31/24 17:13 | MAA | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/08/24 16:42
Level II Report - Version 2: 08/16/24 10:51

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

## Sample Delivery Group (SDG) Narrative

**Analysis was filtered in the laboratory.**

| Lab Sample ID | Project Sample ID | Method |
|---|---|---|
| L1740925-03 | EB-052824 | 6010B |

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-1.0 | L1740925-04 | Mercury | 0.165 | | 0.0191 | 0.0424 | 1 | 06/01/2024 17:56 | WG2295935 |
| G/BS-D4-1-2.0 | L1740925-05 | Mercury | 0.607 | J3 J5 J6 | 0.0200 | 0.0445 | 1 | 06/01/2024 17:41 | WG2295935 |
| G/BS-D4-1-4.0 | L1740925-07 | Mercury | 0.0637 | | 0.0227 | 0.0504 | 1 | 06/09/2024 17:31 | WG2300577 |
| G-E2-1-1.0 | L1740925-09 | Mercury | 0.0679 | | 0.0207 | 0.0460 | 1 | 06/01/2024 18:01 | WG2295935 |
| G-E2-1-2.0 | L1740925-10 | Mercury | 0.103 | | 0.0206 | 0.0459 | 1 | 06/01/2024 18:03 | WG2295935 |
| G-E2-1-3.0 | L1740925-11 | Mercury | 0.0934 | | 0.0205 | 0.0455 | 1 | 06/01/2024 18:06 | WG2295935 |
| G-E3-1-1.0 | L1740925-14 | Mercury | 1.07 | | 0.0209 | 0.0465 | 1 | 06/01/2024 18:08 | WG2295935 |
| G-E3-1-2.0 | L1740925-15 | Mercury | 0.212 | | 0.0217 | 0.0482 | 1 | 06/01/2024 18:11 | WG2295935 |
| G-E3-1-3.0 | L1740925-16 | Mercury | 0.269 | | 0.0216 | 0.0480 | 1 | 05/31/2024 14:27 | WG2295946 |
| G-E3-1-4.0 | L1740925-17 | Mercury | 0.0889 | | 0.0215 | 0.0478 | 1 | 06/09/2024 17:34 | WG2300577 |
| G-F1-1-1.0 | L1740925-20 | Mercury | 0.0838 | | 0.0211 | 0.0468 | 1 | 05/31/2024 14:31 | WG2295946 |
| G-F1-1-2.0 | L1740925-21 | Mercury | 0.127 | | 0.0239 | 0.0531 | 1 | 05/31/2024 14:33 | WG2295946 |
| G-F1-1-3.0 | L1740925-22 | Mercury | 0.143 | | 0.0240 | 0.0534 | 1 | 05/31/2024 14:40 | WG2295946 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-06 | L1740925-25 | Barium,Dissolved | 21.4 | | 0.736 | 5.00 | 1 | 06/04/2024 21:35 | WG2296317 |
| P-06 | L1740925-25 | Molybdenum,Dissolved | 27.7 | | 1.16 | 5.00 | 1 | 06/04/2024 21:35 | WG2296317 |
| P-06 | L1740925-25 | Vanadium,Dissolved | 24.2 | | 4.99 | 20.0 | 1 | 06/04/2024 21:35 | WG2296317 |
| P-08 | L1740925-26 | Barium,Dissolved | 91.2 | Q1 | 0.736 | 5.00 | 1 | 06/04/2024 21:45 | WG2296317 |
| P-08 | L1740925-26 | Chromium,Dissolved | 3.92 | J | 1.40 | 10.0 | 1 | 06/04/2024 21:45 | WG2296317 |
| P-08 | L1740925-26 | Cobalt,Dissolved | 1.33 | J | 0.840 | 10.0 | 1 | 06/04/2024 21:45 | WG2296317 |
| P-08 | L1740925-26 | Molybdenum,Dissolved | 28.1 | | 1.16 | 5.00 | 1 | 06/04/2024 21:45 | WG2296317 |
| P-08 | L1740925-26 | Vanadium,Dissolved | 11.2 | J | 4.99 | 20.0 | 1 | 06/04/2024 21:45 | WG2296317 |
| DUP-03 | L1740925-27 | Barium,Dissolved | 22.2 | | 0.736 | 5.00 | 1 | 06/09/2024 10:41 | WG2297576 |
| DUP-03 | L1740925-27 | Chromium,Dissolved | 1.73 | J | 1.40 | 10.0 | 1 | 06/09/2024 10:41 | WG2297576 |
| DUP-03 | L1740925-27 | Cobalt,Dissolved | 0.950 | J | 0.840 | 10.0 | 1 | 06/09/2024 10:41 | WG2297576 |
| DUP-03 | L1740925-27 | Molybdenum,Dissolved | 27.1 | | 1.16 | 5.00 | 1 | 06/09/2024 10:41 | WG2297576 |
| DUP-03 | L1740925-27 | Vanadium,Dissolved | 21.8 | | 4.99 | 20.0 | 1 | 06/09/2024 10:41 | WG2297576 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-1.0 | L1740925-04 | Antimony | 10.5 | | 0.576 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Arsenic | 7.75 | | 0.549 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Barium | 373 | | 0.0903 | 0.530 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Beryllium | 0.149 | J | 0.0334 | 0.212 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Cadmium | 1.73 | | 0.0499 | 0.530 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Chromium | 147 | | 0.141 | 1.06 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Cobalt | 8.99 | | 0.0859 | 1.06 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Copper | 266 | | 0.424 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Lead | 239 | | 0.220 | 0.530 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Molybdenum | 14.9 | | 0.115 | 0.530 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Nickel | 73.7 | | 0.140 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Vanadium | 46.0 | | 0.536 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| G/BS-D4-1-1.0 | L1740925-04 | Zinc | 708 | | 0.881 | 5.30 | 1 | 06/05/2024 11:29 | WG2297398 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-2.0 | L1740925-05 | Antimony | 4.22 | | 0.606 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Arsenic | 13.3 | | 0.577 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Barium | 271 | | 0.0949 | 0.557 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Beryllium | 0.289 | | 0.0351 | 0.223 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Cadmium | 1.06 | | 0.0524 | 0.557 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Chromium | 81.8 | | 0.148 | 1.11 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Cobalt | 6.12 | | 0.0903 | 1.11 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Copper | 65.9 | | 0.445 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Lead | 167 | | 0.232 | 0.557 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Molybdenum | 2.52 | | 0.121 | 0.557 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Nickel | 30.5 | | 0.147 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Silver | 0.162 | J | 0.141 | 1.11 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Vanadium | 32.8 | | 0.563 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-2.0 | L1740925-05 | Zinc | 221 | | 0.926 | 5.57 | 1 | 06/05/2024 11:31 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Antimony | 9.32 | | 0.606 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Arsenic | 38.7 | | 0.577 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Barium | 655 | | 0.0950 | 0.557 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Beryllium | 0.769 | | 0.0351 | 0.223 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Cadmium | 2.43 | | 0.0525 | 0.557 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Chromium | 115 | | 0.148 | 1.11 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Cobalt | 9.29 | | 0.0904 | 1.11 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Copper | 307 | | 0.446 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Lead | 400 | | 0.232 | 0.557 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Molybdenum | 4.96 | | 0.121 | 0.557 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Nickel | 40.7 | | 0.147 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Silver | 0.327 | J | 0.142 | 1.11 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Vanadium | 57.4 | | 0.564 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-3.0 | L1740925-06 | Zinc | 601 | | 0.927 | 5.57 | 1 | 06/05/2024 11:32 | WG2297398 |
| G/BS-D4-1-4.0 | L1740925-07 | Antimony | 4.11 | | 0.686 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Arsenic | 5.04 | B | 0.653 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Barium | 138 | | 0.107 | 0.630 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Beryllium | 0.203 | J | 0.0397 | 0.252 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Cadmium | 0.800 | | 0.0594 | 0.630 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Chromium | 46.7 | | 0.168 | 1.26 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Cobalt | 7.89 | | 0.102 | 1.26 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Copper | 212 | | 0.504 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Lead | 151 | | 0.262 | 0.630 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Molybdenum | 0.518 | J | 0.137 | 0.630 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Nickel | 82.7 | | 0.166 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Vanadium | 35.7 | | 0.638 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| G/BS-D4-1-4.0 | L1740925-07 | Zinc | 156 | | 1.05 | 6.30 | 1 | 06/13/2024 18:22 | WG2300670 |
| G-E2-1-1.0 | L1740925-09 | Antimony | 3.69 | | 0.626 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Arsenic | 6.35 | | 0.596 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Barium | 160 | | 0.0980 | 0.575 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Beryllium | 0.137 | J | 0.0362 | 0.230 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Cadmium | 0.183 | J | 0.0542 | 0.575 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Chromium | 41.2 | | 0.153 | 1.15 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Cobalt | 7.52 | | 0.0933 | 1.15 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Copper | 30.3 | | 0.460 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Lead | 49.2 | | 0.239 | 0.575 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Molybdenum | 4.17 | | 0.125 | 0.575 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Nickel | 35.8 | | 0.152 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Vanadium | 41.1 | | 0.582 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| G-E2-1-1.0 | L1740925-09 | Zinc | 85.2 | | 0.957 | 5.75 | 1 | 06/05/2024 11:34 | WG2297398 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-E2-1-2.0 | L1740925-10 | Antimony | 2.56 | | 0.624 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Arsenic | 4.27 | | 0.594 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Barium | 183 | | 0.0977 | 0.573 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Beryllium | 0.408 | | 0.0361 | 0.229 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Cadmium | 0.151 | J | 0.0540 | 0.573 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Chromium | 45.5 | | 0.152 | 1.15 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Cobalt | 10.3 | | 0.0930 | 1.15 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Copper | 26.1 | | 0.459 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Lead | 50.2 | | 0.238 | 0.573 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Molybdenum | 0.377 | J | 0.125 | 0.573 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Nickel | 46.5 | | 0.151 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Vanadium | 43.5 | | 0.580 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-2.0 | L1740925-10 | Zinc | 82.2 | | 0.954 | 5.73 | 1 | 06/05/2024 11:36 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Antimony | 2.92 | | 0.619 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Arsenic | 4.20 | | 0.590 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Barium | 194 | | 0.0970 | 0.569 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Beryllium | 0.335 | | 0.0359 | 0.228 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Cadmium | 0.249 | J | 0.0536 | 0.569 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Chromium | 50.7 | | 0.151 | 1.14 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Cobalt | 12.9 | | 0.0923 | 1.14 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Copper | 23.4 | | 0.455 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Lead | 82.6 | | 0.237 | 0.569 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Molybdenum | 0.475 | J | 0.124 | 0.569 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Nickel | 56.6 | | 0.150 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Vanadium | 47.8 | | 0.576 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E2-1-3.0 | L1740925-11 | Zinc | 91.2 | | 0.947 | 5.69 | 1 | 06/05/2024 11:37 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Antimony | 8.78 | | 0.633 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Arsenic | 12.7 | | 0.602 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Barium | 228 | | 0.0991 | 0.581 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Beryllium | 0.0762 | J | 0.0366 | 0.233 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Cadmium | 5.40 | | 0.0548 | 0.581 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Chromium | 43.5 | | 0.155 | 1.16 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Cobalt | 5.57 | | 0.0943 | 1.16 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Copper | 209 | | 0.465 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Lead | 1780 | | 0.242 | 0.581 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Molybdenum | 15.5 | | 0.127 | 0.581 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Nickel | 25.4 | | 0.153 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Vanadium | 26.7 | | 0.588 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-1.0 | L1740925-14 | Zinc | 838 | | 0.967 | 5.81 | 1 | 06/05/2024 11:39 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Antimony | 3.41 | | 0.656 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Arsenic | 0.960 | J | 0.624 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Barium | 181 | | 0.103 | 0.602 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Beryllium | 0.285 | | 0.0380 | 0.241 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Cadmium | 0.208 | J | 0.0568 | 0.602 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Chromium | 51.0 | | 0.160 | 1.20 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Cobalt | 13.9 | | 0.0977 | 1.20 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Copper | 37.5 | | 0.482 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Lead | 99.2 | | 0.251 | 0.602 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Molybdenum | 0.233 | J | 0.131 | 0.602 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Nickel | 49.3 | | 0.159 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Vanadium | 76.0 | | 0.610 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| G-E3-1-2.0 | L1740925-15 | Zinc | 205 | | 1.00 | 6.02 | 1 | 06/05/2024 11:41 | WG2297398 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-E3-1-3.0 | L1740925-16 | Antimony | 7.44 | | 0.653 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Arsenic | 3.56 | | 0.622 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Barium | 248 | | 0.102 | 0.600 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Beryllium | 0.238 | J | 0.0378 | 0.240 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Cadmium | 0.547 | J | 0.0566 | 0.600 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Chromium | 45.7 | | 0.160 | 1.20 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Cobalt | 12.7 | | 0.0974 | 1.20 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Copper | 35.9 | | 0.480 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Lead | 506 | | 0.250 | 0.600 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Molybdenum | 0.387 | J | 0.131 | 0.600 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Nickel | 44.9 | | 0.158 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Vanadium | 64.9 | | 0.608 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-3.0 | L1740925-16 | Zinc | 241 | | 0.999 | 6.00 | 1 | 06/05/2024 11:42 | WG2297398 |
| G-E3-1-4.0 | L1740925-17 | Antimony | 6.99 | | 0.650 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Arsenic | 6.39 | B | 0.619 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Barium | 231 | | 0.102 | 0.598 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Beryllium | 0.605 | | 0.0377 | 0.239 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Cadmium | 0.130 | J | 0.0563 | 0.598 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Chromium | 65.2 | | 0.159 | 1.20 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Cobalt | 10.2 | | 0.0969 | 1.20 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Copper | 26.2 | | 0.478 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Lead | 26.0 | | 0.249 | 0.598 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Molybdenum | 0.270 | J | 0.130 | 0.598 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Nickel | 65.5 | | 0.158 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Vanadium | 69.7 | | 0.605 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-E3-1-4.0 | L1740925-17 | Zinc | 70.2 | | 0.995 | 5.98 | 1 | 06/13/2024 18:24 | WG2300670 |
| G-F1-1-1.0 | L1740925-20 | Antimony | 4.50 | | 0.637 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Arsenic | 3.78 | | 0.606 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Barium | 115 | | 0.0997 | 0.585 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Beryllium | 0.293 | | 0.0369 | 0.234 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Cadmium | 0.128 | J | 0.0551 | 0.585 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Chromium | 45.5 | | 0.156 | 1.17 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Cobalt | 11.6 | | 0.0949 | 1.17 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Copper | 51.2 | | 0.468 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Lead | 83.9 | | 0.243 | 0.585 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Molybdenum | 1.08 | | 0.128 | 0.585 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Nickel | 37.7 | | 0.154 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Vanadium | 66.8 | | 0.592 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-1.0 | L1740925-20 | Zinc | 74.7 | | 0.974 | 5.85 | 1 | 06/05/2024 11:47 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Antimony | 4.12 | | 0.722 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Arsenic | 6.51 | | 0.687 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Barium | 178 | | 0.113 | 0.663 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Beryllium | 0.292 | | 0.0418 | 0.265 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Cadmium | 2.10 | | 0.0625 | 0.663 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Chromium | 59.0 | | 0.176 | 1.33 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Cobalt | 19.0 | | 0.108 | 1.33 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Copper | 81.4 | | 0.531 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Lead | 219 | | 0.276 | 0.663 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Molybdenum | 0.622 | J | 0.145 | 0.663 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Nickel | 85.9 | | 0.175 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Vanadium | 66.5 | | 0.671 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| G-F1-1-2.0 | L1740925-21 | Zinc | 1400 | | 1.10 | 6.63 | 1 | 06/05/2024 11:49 | WG2297398 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F1-1-3.0 | L1740925-22 | Antimony | 11.4 | | 0.726 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Arsenic | 5.00 | | 0.692 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Barium | 177 | | 0.114 | 0.668 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Beryllium | 0.308 | | 0.0421 | 0.267 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Cadmium | 10.3 | | 0.0629 | 0.668 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Chromium | 93.6 | | 0.178 | 1.34 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Cobalt | 17.5 | | 0.108 | 1.34 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Copper | 256 | | 0.534 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Lead | 194 | | 0.278 | 0.668 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Molybdenum | 0.680 | | 0.146 | 0.668 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Nickel | 88.2 | | 0.176 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Vanadium | 96.9 | | 0.676 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-3.0 | L1740925-22 | Zinc | 1180 | | 1.11 | 6.68 | 1 | 06/05/2024 11:51 | WG2297398 |
| G-F1-1-4.0 | L1740925-23 | Lead | 46.8 | | 0.284 | 0.684 | 1 | 06/27/2024 20:17 | WG2313442 |
| G-F1-1-4.0 | L1740925-23 | Nickel | 55.1 | | 0.181 | 2.74 | 1 | 06/27/2024 20:17 | WG2313442 |

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-06 | L1740925-25 | Antimony,Dissolved | 1.10 | J | 1.03 | 4.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| P-06 | L1740925-25 | Arsenic | 7.22 | | 0.180 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Arsenic,Dissolved | 8.01 | | 0.180 | 2.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| P-06 | L1740925-25 | Barium | 68.9 | | 0.381 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Beryllium | 0.222 | J | 0.190 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Cadmium | 0.656 | J | 0.150 | 1.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Chromium | 15.4 | | 1.24 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Copper | 17.1 | | 1.51 | 5.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Copper,Dissolved | 2.10 | J | 1.51 | 5.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| P-06 | L1740925-25 | Cobalt | 2.55 | | 0.0596 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Lead | 7.60 | | 0.849 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Molybdenum | 23.1 | | 0.348 | 5.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Nickel | 15.4 | | 0.816 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Nickel,Dissolved | 0.956 | J | 0.816 | 2.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| P-06 | L1740925-25 | Vanadium | 52.3 | | 0.664 | 5.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-06 | L1740925-25 | Zinc | 31.5 | | 3.02 | 25.0 | 1 | 06/27/2024 22:38 | WG2305428 |
| P-08 | L1740925-26 | Antimony | 39.3 | | 1.03 | 4.00 | 1 | 07/03/2024 11:17 | WG2316050 |
| P-08 | L1740925-26 | Antimony,Dissolved | 39.2 | | 1.03 | 4.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| P-08 | L1740925-26 | Arsenic | 11.8 | | 0.180 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Arsenic,Dissolved | 5.51 | | 0.180 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| P-08 | L1740925-26 | Barium | 209 | | 0.381 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Beryllium | 0.738 | J | 0.190 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Cadmium | 53.3 | | 0.150 | 1.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Chromium | 67.1 | | 1.24 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Copper | 309 | | 1.51 | 5.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Copper,Dissolved | 3.76 | J | 1.51 | 5.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| P-08 | L1740925-26 | Cobalt | 16.2 | | 0.0596 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Lead | 9470 | | 0.849 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Lead,Dissolved | 2.65 | | 0.849 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| P-08 | L1740925-26 | Molybdenum | 4.82 | J | 0.348 | 5.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Nickel | 84.3 | | 0.816 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Nickel,Dissolved | 12.4 | | 0.816 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| P-08 | L1740925-26 | Selenium | 1.39 | J | 0.300 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Selenium,Dissolved | 1.20 | J | 0.300 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| P-08 | L1740925-26 | Thallium | 0.254 | J | 0.121 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Vanadium | 67.2 | | 0.664 | 5.00 | 1 | 06/27/2024 23:29 | WG2305428 |

# DETECTION SUMMARY

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-08 | L1740925-26 | Zinc | 7100 | | 3.02 | 25.0 | 1 | 06/27/2024 23:29 | WG2305428 |
| P-08 | L1740925-26 | Zinc,Dissolved | 8.46 | J | 3.02 | 25.0 | 1 | 06/19/2024 11:22 | WG2297585 |
| DUP-03 | L1740925-27 | Antimony,Dissolved | 1.14 | J | 1.03 | 4.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| DUP-03 | L1740925-27 | Arsenic | 7.69 | | 0.180 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Arsenic,Dissolved | 7.85 | | 0.180 | 2.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| DUP-03 | L1740925-27 | Barium | 47.7 | | 0.381 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Cadmium | 0.325 | J | 0.150 | 1.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Chromium | 9.50 | | 1.24 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Copper | 10.6 | | 1.51 | 5.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Copper,Dissolved | 1.69 | J | 1.51 | 5.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| DUP-03 | L1740925-27 | Cobalt | 1.56 | J | 0.0596 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Lead | 5.01 | | 0.849 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Molybdenum | 20.1 | | 0.348 | 5.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Nickel | 9.57 | | 0.816 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Selenium | 0.312 | J | 0.300 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Vanadium | 35.7 | | 0.664 | 5.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Zinc | 19.8 | J | 3.02 | 25.0 | 1 | 06/27/2024 22:45 | WG2305428 |
| DUP-03 | L1740925-27 | Zinc,Dissolved | 3.64 | J | 3.02 | 25.0 | 1 | 06/19/2024 02:36 | WG2297585 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-06 | L1740925-25 | TPHG C5 - C12 | 72.5 | J | 30.4 | 100 | 1 | 06/03/2024 14:07 | WG2297466 |
| P-08 | L1740925-26 | TPHG C5 - C12 | 62.6 | J | 30.4 | 100 | 1 | 06/03/2024 14:30 | WG2297466 |
| DUP-03 | L1740925-27 | TPHG C5 - C12 | 73.3 | J | 30.4 | 100 | 1 | 06/03/2024 14:53 | WG2297466 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-45-8-5.0 | L1740925-01 | TPHG C5 - C12 | 4.27 | B | 1.16 | 3.50 | 25 | 06/02/2024 16:56 | WG2297113 |
| SVP-06-8-5.0 | L1740925-02 | TPHG C5 - C12 | 3.87 | B J | 1.35 | 4.05 | 25 | 06/02/2024 17:19 | WG2297113 |
| G/BS-D4-1-3.0 | L1740925-06 | TPHG C5 - C12 | 13.1 | B | 1.03 | 3.10 | 25 | 06/02/2024 17:46 | WG2297113 |
| G/BS-D4-1-5.0 | L1740925-08 | TPHG C5 - C12 | 3.84 | B | 1.23 | 3.71 | 25 | 06/02/2024 18:10 | WG2297113 |
| G-E2-1-3.0 | L1740925-11 | TPHG C5 - C12 | 5.29 | B | 1.07 | 3.22 | 25 | 06/02/2024 18:33 | WG2297113 |
| G-E2-1-5.0 | L1740925-13 | TPHG C5 - C12 | 3.14 | B J | 1.09 | 3.29 | 25 | 06/02/2024 18:57 | WG2297113 |
| G-E3-1-3.0 | L1740925-16 | TPHG C5 - C12 | 3.95 | B | 1.20 | 3.63 | 25 | 06/02/2024 19:20 | WG2297113 |
| G-E3-1-5.0 | L1740925-18 | TPHG C5 - C12 | 1.64 | B J | 0.966 | 2.91 | 25 | 06/02/2024 19:43 | WG2297113 |
| G-F1-1-3.0 | L1740925-22 | TPHG C5 - C12 | 3.76 | B J | 1.43 | 4.32 | 25 | 06/02/2024 20:07 | WG2297113 |
| G-F1-1-5.0 | L1740925-24 | TPHG C5 - C12 | 2.77 | B J | 1.43 | 4.30 | 25 | 06/02/2024 20:30 | WG2297113 |

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

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052824 | L1740925-03 | Benzene | 0.0943 | J | 0.0941 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| EB-052824 | L1740925-03 | Ethylbenzene | 0.151 | J | 0.137 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-06 | L1740925-25 | Benzene | 0.265 | J | 0.0941 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | Chlorobenzene | 1.54 | | 0.116 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | 1,2-Dichlorobenzene | 2.04 | | 0.107 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | 1,1-Dichloroethane | 2.62 | | 0.100 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | 1,1-Dichloroethene | 0.194 | J | 0.188 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | cis-1,2-Dichloroethene | 175 | | 0.126 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | trans-1,2-Dichloroethene | 3.47 | | 0.149 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | Naphthalene | 1.74 | J | 1.00 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | Trichloroethene | 6.16 | | 0.190 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-06 | L1740925-25 | Xylenes, Total | 0.254 | J | 0.174 | 3.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| P-08 | L1740925-26 | Benzene | 2.45 | | 0.0941 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | Chlorobenzene | 0.328 | J | 0.116 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | Chloroethane | 1.17 | J J3 | 0.192 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | 1,2-Dichlorobenzene | 1.41 | | 0.107 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | 1,1-Dichloroethane | 6.04 | | 0.100 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | cis-1,2-Dichloroethene | 25.6 | | 0.126 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | trans-1,2-Dichloroethene | 1.17 | | 0.149 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | Di-isopropyl ether | 0.204 | J | 0.105 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | Methyl tert-butyl ether | 0.583 | J | 0.101 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | Toluene | 0.281 | J | 0.278 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | 1,2,4-Trimethylbenzene | 0.484 | J | 0.322 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | 1,2,3-Trimethylbenzene | 0.240 | J | 0.104 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | 1,3,5-Trimethylbenzene | 0.250 | J | 0.104 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| P-08 | L1740925-26 | Xylenes, Total | 0.199 | J | 0.174 | 3.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| DUP-03 | L1740925-27 | Benzene | 0.251 | J | 0.0941 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | Chlorobenzene | 1.34 | | 0.116 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | 1,2-Dichlorobenzene | 1.90 | | 0.107 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | 1,1-Dichloroethane | 2.61 | | 0.100 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | 1,1-Dichloroethene | 0.264 | J | 0.188 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | cis-1,2-Dichloroethene | 186 | | 0.126 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | trans-1,2-Dichloroethene | 3.39 | | 0.149 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | Naphthalene | 1.66 | J | 1.00 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | Trichloroethene | 5.12 | | 0.190 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| DUP-03 | L1740925-27 | 1,2,3-Trimethylbenzene | 0.107 | J | 0.104 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-45-8-5.0 | L1740925-01 | Benzene | 0.0114 | | 0.000654 | 0.00140 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | 1,1-Dichloroethane | 0.00266 | J | 0.000687 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | cis-1,2-Dichloroethene | 0.0119 | | 0.00103 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | Ethylbenzene | 0.0107 | | 0.00103 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | p-Isopropyltoluene | 0.0277 | | 0.00357 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | Naphthalene | 0.0218 | | 0.00683 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | n-Propylbenzene | 0.00572 | J | 0.00133 | 0.00702 | 1 | 06/05/2024 21:10 | WG2299252 |
| SVP-45-8-5.0 | L1740925-01 | Toluene | 0.0146 | | 0.00182 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | 1,2,4-Trimethylbenzene | 0.0120 | | 0.00221 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | 1,2,3-Trimethylbenzene | 0.00797 | | 0.00221 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | 1,3,5-Trimethylbenzene | 0.00573 | J | 0.00280 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| SVP-45-8-5.0 | L1740925-01 | Xylenes, Total | 0.0344 | | 0.00123 | 0.00910 | 1 | 06/04/2024 02:23 | WG2297487 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-06-8-5.0 | L1740925-02 | Benzene | 0.000930 | J | 0.000757 | 0.00162 | 1 | 06/04/2024 02:43 | WG2297487 |
| SVP-06-8-5.0 | L1740925-02 | Naphthalene | 0.0123 | J | 0.00791 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| SVP-06-8-5.0 | L1740925-02 | Toluene | 0.00413 | J | 0.00211 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| SVP-06-8-5.0 | L1740925-02 | 1,2,4-Trimethylbenzene | 0.00438 | J | 0.00256 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| SVP-06-8-5.0 | L1740925-02 | 1,2,3-Trimethylbenzene | 0.00407 | J | 0.00256 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| SVP-06-8-5.0 | L1740925-02 | Xylenes, Total | 0.00679 | J | 0.00143 | 0.0105 | 1 | 06/04/2024 02:43 | WG2297487 |
| G/BS-D4-1-2.0 | L1740925-05 | Ethylbenzene | 0.00622 | | 0.00118 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| G/BS-D4-1-2.0 | L1740925-05 | Xylenes, Total | 0.0449 | | 0.00141 | 0.0104 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| G/BS-D4-1-3.0 | L1740925-06 | Benzene | 0.00832 | | 0.000579 | 0.00124 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | sec-Butylbenzene | 0.00396 | J | 0.00357 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Chlorobenzene | 0.000283 | B J | 0.000260 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | 1,4-Dichlorobenzene | 0.00239 | J | 0.000868 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | 1,1-Dichloroethane | 0.00138 | J | 0.000609 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Ethylbenzene | 0.0109 | | 0.000914 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Isopropylbenzene | 0.00660 | | 0.000527 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | p-Isopropyltoluene | 0.0108 | | 0.00316 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Methylene Chloride | 0.0153 | J | 0.00824 | 0.0310 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | 4-Methyl-2-pentanone (MIBK) | 0.00454 | J | 0.00283 | 0.0310 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Naphthalene | 0.0543 | | 0.00605 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | n-Propylbenzene | 0.00494 | J | 0.00118 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Tetrachloroethene | 0.00474 | | 0.00111 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Toluene | 0.0296 | | 0.00161 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | 1,1,1-Trichloroethane | 0.00812 | | 0.00114 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Trichloroethene | 0.000734 | J | 0.000724 | 0.00124 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | 1,2,4-Trimethylbenzene | 0.0354 | | 0.00196 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | 1,2,3-Trimethylbenzene | 0.0872 | | 0.00196 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | 1,3,5-Trimethylbenzene | 0.0187 | | 0.00248 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-3.0 | L1740925-06 | Xylenes, Total | 0.0686 | | 0.00109 | 0.00806 | 1 | 06/03/2024 17:04 | WG2297589 |
| G/BS-D4-1-5.0 | L1740925-08 | Methylene Chloride | 0.0168 | J | 0.00985 | 0.0371 | 1 | 06/03/2024 17:23 | WG2297589 |
| G/BS-D4-1-5.0 | L1740925-08 | Xylenes, Total | 0.00181 | J | 0.00131 | 0.00964 | 1 | 06/03/2024 17:23 | WG2297589 |
| G-E2-1-2.0 | L1740925-10 | Methylene Chloride | 0.0147 | J | 0.00874 | 0.0329 | 1 | 06/03/2024 17:42 | WG2297589 |
| G-E2-1-2.0 | L1740925-10 | Naphthalene | 0.0167 | | 0.00642 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| G-E2-1-2.0 | L1740925-10 | 1,2,4-Trimethylbenzene | 0.00321 | J | 0.00208 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| G-E2-1-2.0 | L1740925-10 | 1,2,3-Trimethylbenzene | 0.00418 | J | 0.00208 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| G-E2-1-3.0 | L1740925-11 | Methylene Chloride | 0.0165 | J | 0.00855 | 0.0322 | 1 | 06/03/2024 18:01 | WG2297589 |
| G-E2-1-3.0 | L1740925-11 | Naphthalene | 0.00922 | J | 0.00628 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| G-E2-1-3.0 | L1740925-11 | 1,2,4-Trimethylbenzene | 0.00237 | J | 0.00203 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| G-E2-1-3.0 | L1740925-11 | 1,2,3-Trimethylbenzene | 0.00264 | J | 0.00203 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| G-E2-1-3.0 | L1740925-11 | Xylenes, Total | 0.00158 | J | 0.00113 | 0.00837 | 1 | 06/03/2024 18:01 | WG2297589 |
| G-E2-1-5.0 | L1740925-13 | Methylene Chloride | 0.0153 | J | 0.00875 | 0.0329 | 1 | 06/03/2024 18:21 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | Benzene | 0.000784 | J | 0.000673 | 0.00144 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | Isopropylbenzene | 0.000627 | J | 0.000613 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | Methylene Chloride | 0.0150 | J | 0.00957 | 0.0360 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | Naphthalene | 0.0170 | J | 0.00704 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | n-Propylbenzene | 0.00147 | J | 0.00137 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | Toluene | 0.00386 | J | 0.00187 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | 1,2,4-Trimethylbenzene | 0.0209 | | 0.00228 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | 1,2,3-Trimethylbenzene | 0.00975 | | 0.00228 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | 1,3,5-Trimethylbenzene | 0.00627 | J | 0.00288 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-2.0 | L1740925-15 | Xylenes, Total | 0.0105 | | 0.00127 | 0.00937 | 1 | 06/03/2024 18:39 | WG2297589 |
| G-E3-1-3.0 | L1740925-16 | Benzene | 0.00276 | | 0.000678 | 0.00145 | 1 | 06/03/2024 18:59 | WG2297589 |
| G-E3-1-3.0 | L1740925-16 | Xylenes, Total | 0.00601 | J | 0.00128 | 0.00943 | 1 | 06/03/2024 18:59 | WG2297589 |
| G-F1-1-2.0 | L1740925-21 | Tetrachloroethene | 0.0715 | | 0.00155 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| G-F1-1-3.0 | L1740925-22 | Tetrachloroethene | 0.0288 | | 0.00155 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| G-F1-1-3.0 | L1740925-22 | Trichloroethene | 0.00939 | | 0.00101 | 0.00173 | 1 | 06/03/2024 19:56 | WG2297589 |
| G-F1-1-5.0 | L1740925-24 | cis-1,2-Dichloroethene | 0.00282 | J | 0.00126 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |

# DETECTION SUMMARY

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| P-06 | L1740925-25 | C12-C22 Hydrocarbons | 382 | | 33.0 | 100 | 1 | 05/31/2024 16:32 | WG2295250 |
| P-06 | L1740925-25 | C22-C32 Hydrocarbons | 268 | | 33.0 | 100 | 1 | 05/31/2024 16:32 | WG2295250 |
| P-06 | L1740925-25 | C32-C40 Hydrocarbons | 67.4 | J | 33.0 | 100 | 1 | 05/31/2024 16:32 | WG2295250 |
| P-08 | L1740925-26 | C12-C22 Hydrocarbons | 2030 | | 33.0 | 100 | 1 | 05/31/2024 16:53 | WG2295250 |
| P-08 | L1740925-26 | C22-C32 Hydrocarbons | 2890 | | 33.0 | 100 | 1 | 05/31/2024 16:53 | WG2295250 |
| P-08 | L1740925-26 | C32-C40 Hydrocarbons | 1200 | | 33.0 | 100 | 1 | 05/31/2024 16:53 | WG2295250 |
| DUP-03 | L1740925-27 | C12-C22 Hydrocarbons | 405 | | 33.0 | 100 | 1 | 05/31/2024 17:13 | WG2295250 |
| DUP-03 | L1740925-27 | C22-C32 Hydrocarbons | 333 | | 33.0 | 100 | 1 | 05/31/2024 17:13 | WG2295250 |
| DUP-03 | L1740925-27 | C32-C40 Hydrocarbons | 199 | | 33.0 | 100 | 1 | 05/31/2024 17:13 | WG2295250 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-45-8-5.0 | L1740925-01 | C12-C22 Hydrocarbons | 11.5 | J | 4.38 | 23.9 | 5 | 06/05/2024 00:55 | WG2298254 |
| SVP-45-8-5.0 | L1740925-01 | C22-C32 Hydrocarbons | 62.1 | | 7.94 | 23.9 | 5 | 06/05/2024 00:55 | WG2298254 |
| SVP-45-8-5.0 | L1740925-01 | C32-C40 Hydrocarbons | 55.3 | | 7.94 | 23.9 | 5 | 06/05/2024 00:55 | WG2298254 |
| SVP-06-8-5.0 | L1740925-02 | C12-C22 Hydrocarbons | 1.97 | J | 1.89 | 10.3 | 2 | 06/05/2024 11:26 | WG2298254 |
| SVP-06-8-5.0 | L1740925-02 | C22-C32 Hydrocarbons | 7.03 | J | 3.42 | 10.3 | 2 | 06/05/2024 11:26 | WG2298254 |
| SVP-06-8-5.0 | L1740925-02 | C32-C40 Hydrocarbons | 7.57 | J | 3.42 | 10.3 | 2 | 06/05/2024 11:26 | WG2298254 |
| G/BS-D4-1-3.0 | L1740925-06 | C12-C22 Hydrocarbons | 34.6 | J | 8.17 | 44.6 | 10 | 06/05/2024 02:15 | WG2298254 |
| G/BS-D4-1-3.0 | L1740925-06 | C22-C32 Hydrocarbons | 181 | | 14.8 | 44.6 | 10 | 06/05/2024 02:15 | WG2298254 |
| G/BS-D4-1-3.0 | L1740925-06 | C32-C40 Hydrocarbons | 127 | | 14.8 | 44.6 | 10 | 06/05/2024 02:15 | WG2298254 |
| G/BS-D4-1-5.0 | L1740925-08 | C22-C32 Hydrocarbons | 351 | | 81.6 | 245 | 50 | 06/05/2024 03:08 | WG2298254 |
| G/BS-D4-1-5.0 | L1740925-08 | C32-C40 Hydrocarbons | 557 | | 81.6 | 245 | 50 | 06/05/2024 03:08 | WG2298254 |
| G-E2-1-3.0 | L1740925-11 | C12-C22 Hydrocarbons | 8.40 | | 0.835 | 4.55 | 1 | 06/05/2024 00:29 | WG2298254 |
| G-E2-1-3.0 | L1740925-11 | C22-C32 Hydrocarbons | 52.1 | | 1.51 | 4.55 | 1 | 06/05/2024 00:29 | WG2298254 |
| G-E2-1-3.0 | L1740925-11 | C32-C40 Hydrocarbons | 39.2 | | 1.51 | 4.55 | 1 | 06/05/2024 00:29 | WG2298254 |
| G-E2-1-5.0 | L1740925-13 | C12-C22 Hydrocarbons | 7.21 | J | 4.21 | 23.0 | 5 | 06/05/2024 01:35 | WG2298254 |
| G-E2-1-5.0 | L1740925-13 | C22-C32 Hydrocarbons | 76.9 | | 7.63 | 23.0 | 5 | 06/05/2024 01:35 | WG2298254 |
| G-E2-1-5.0 | L1740925-13 | C32-C40 Hydrocarbons | 87.0 | | 7.63 | 23.0 | 5 | 06/05/2024 01:35 | WG2298254 |
| G-E3-1-3.0 | L1740925-16 | C12-C22 Hydrocarbons | 46.7 | J | 44.1 | 240 | 50 | 06/05/2024 02:54 | WG2298254 |
| G-E3-1-3.0 | L1740925-16 | C22-C32 Hydrocarbons | 421 | | 79.8 | 240 | 50 | 06/05/2024 02:54 | WG2298254 |
| G-E3-1-3.0 | L1740925-16 | C32-C40 Hydrocarbons | 415 | | 79.8 | 240 | 50 | 06/05/2024 02:54 | WG2298254 |
| G-E3-1-5.0 | L1740925-18 | C12-C22 Hydrocarbons | 16.7 | J | 7.74 | 42.2 | 10 | 06/05/2024 02:01 | WG2298254 |
| G-E3-1-5.0 | L1740925-18 | C22-C32 Hydrocarbons | 69.0 | | 14.0 | 42.2 | 10 | 06/05/2024 02:01 | WG2298254 |
| G-E3-1-5.0 | L1740925-18 | C32-C40 Hydrocarbons | 59.6 | | 14.0 | 42.2 | 10 | 06/05/2024 02:01 | WG2298254 |
| G-F1-1-3.0 | L1740925-22 | C22-C32 Hydrocarbons | 55.7 | | 17.8 | 53.4 | 10 | 06/05/2024 02:28 | WG2298254 |
| G-F1-1-3.0 | L1740925-22 | C32-C40 Hydrocarbons | 84.4 | | 17.8 | 53.4 | 10 | 06/05/2024 02:28 | WG2298254 |
| G-F1-1-5.0 | L1740925-24 | C12-C22 Hydrocarbons | 1.05 | J | 0.970 | 5.29 | 1 | 06/04/2024 23:49 | WG2298254 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-1.0 | L1740925-04 | PCB 1254 | 0.790 | | 0.0391 | 0.0900 | 5 | 06/04/2024 14:13 | WG2297376 |
| G/BS-D4-1-2.0 | L1740925-05 | PCB 1254 | 3.69 | | 0.0822 | 0.189 | 10 | 06/21/2024 01:17 | WG2304143 |
| G-E3-1-1.0 | L1740925-14 | PCB 1242 | 1.88 | | 0.0687 | 0.198 | 5 | 06/04/2024 14:31 | WG2297376 |
| G-E3-1-1.0 | L1740925-14 | PCB 1254 | 1.14 | | 0.0429 | 0.0988 | 5 | 06/04/2024 14:31 | WG2297376 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-1.0 | L1740925-04 | Acenaphthene | 0.141 | J | 0.0571 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Acenaphthylene | 0.110 | J | 0.0497 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Anthracene | 0.416 | | 0.0628 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Benzo(a)anthracene | 1.26 | | 0.0622 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Benzo(b)fluoranthene | 1.68 | | 0.0658 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Benzo(k)fluoranthene | 0.510 | | 0.0627 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Benzo(g,h,i)perylene | 0.550 | | 0.0645 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Benzo(a)pyrene | 1.10 | | 0.0656 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Chrysene | 1.19 | | 0.0701 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Dibenz(a,h)anthracene | 0.163 | J | 0.0978 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Fluoranthene | 2.88 | | 0.0637 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Fluorene | 0.213 | J | 0.0574 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Indeno(1,2,3-cd)pyrene | 0.638 | | 0.0997 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Phenanthrene | 1.72 | | 0.0700 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-1.0 | L1740925-04 | Pyrene | 1.99 | | 0.0686 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Anthracene | 0.00795 | J | 0.00660 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Benzo(a)anthracene | 0.0938 | | 0.00654 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Benzo(b)fluoranthene | 0.168 | | 0.00692 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Benzo(k)fluoranthene | 0.0578 | | 0.00659 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Benzo(g,h,i)perylene | 0.0549 | | 0.00678 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Benzo(a)pyrene | 0.112 | | 0.00689 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Chrysene | 0.137 | | 0.00737 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Dibenz(a,h)anthracene | 0.0193 | J | 0.0103 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Fluoranthene | 0.0935 | | 0.00669 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Indeno(1,2,3-cd)pyrene | 0.0688 | | 0.0105 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Phenanthrene | 0.0337 | J | 0.00736 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Benzylbutyl phthalate | 0.0134 | J | 0.0116 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Pyrene | 0.110 | | 0.00722 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-2.0 | L1740925-05 | Phenol | 0.0340 | J | 0.0149 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Acenaphthene | 0.0207 | J | 0.00601 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Acenaphthylene | 0.0161 | J | 0.00523 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Anthracene | 0.0599 | | 0.00661 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Benzo(a)anthracene | 0.378 | | 0.00654 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Benzo(b)fluoranthene | 0.737 | | 0.00692 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Benzo(k)fluoranthene | 0.215 | | 0.00660 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Benzo(g,h,i)perylene | 0.200 | | 0.00679 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Benzo(a)pyrene | 0.448 | | 0.00690 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Chrysene | 0.495 | | 0.00738 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Dibenz(a,h)anthracene | 0.0753 | | 0.0103 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Fluoranthene | 0.492 | | 0.00670 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Fluorene | 0.0196 | J | 0.00604 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Indeno(1,2,3-cd)pyrene | 0.255 | | 0.0105 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Naphthalene | 0.0607 | | 0.00932 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Phenanthrene | 0.227 | | 0.00737 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Benzylbutyl phthalate | 0.0156 | J | 0.0116 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Bis(2-ethylhexyl)phthalate | 0.111 | J | 0.0470 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Di-n-butyl phthalate | 0.0282 | J | 0.0127 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Pyrene | 0.471 | | 0.00722 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| G/BS-D4-1-3.0 | L1740925-06 | Phenol | 0.448 | | 0.0149 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-E2-1-1.0 | L1740925-09 | Benzo(a)anthracene | 0.0168 | J | 0.00675 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Benzo(b)fluoranthene | 0.0263 | J | 0.00714 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Benzo(k)fluoranthene | 0.00798 | J | 0.00681 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Benzo(g,h,i)perylene | 0.0168 | J | 0.00700 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Benzo(a)pyrene | 0.0177 | J | 0.00712 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Chrysene | 0.0221 | J | 0.00761 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Fluoranthene | 0.0166 | J | 0.00691 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Indeno(1,2,3-cd)pyrene | 0.0160 | J | 0.0108 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Phenanthrene | 0.0110 | J | 0.00760 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-1.0 | L1740925-09 | Pyrene | 0.0213 | J | 0.00745 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Benzo(a)anthracene | 0.0193 | J | 0.00673 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Benzo(b)fluoranthene | 0.0368 | J | 0.00712 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Benzo(k)fluoranthene | 0.00791 | J | 0.00679 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Benzo(g,h,i)perylene | 0.0171 | J | 0.00698 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Benzo(a)pyrene | 0.0216 | J | 0.00710 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Chrysene | 0.0252 | J | 0.00759 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Fluoranthene | 0.0306 | J | 0.00689 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Indeno(1,2,3-cd)pyrene | 0.0136 | J | 0.0108 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Naphthalene | 0.0259 | J | 0.00959 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Phenanthrene | 0.0432 | | 0.00758 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-2.0 | L1740925-10 | Pyrene | 0.0407 | | 0.00743 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Acenaphthylene | 0.00627 | J | 0.00534 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Benzo(a)anthracene | 0.0157 | J | 0.00668 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Benzo(b)fluoranthene | 0.0323 | J | 0.00707 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Benzo(k)fluoranthene | 0.0124 | J | 0.00674 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Benzo(g,h,i)perylene | 0.0195 | J | 0.00693 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Benzo(a)pyrene | 0.0206 | J | 0.00705 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Chrysene | 0.0235 | J | 0.00754 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Fluoranthene | 0.0491 | | 0.00684 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Indeno(1,2,3-cd)pyrene | 0.0197 | J | 0.0107 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Phenanthrene | 0.0302 | J | 0.00753 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E2-1-3.0 | L1740925-11 | Pyrene | 0.0451 | | 0.00738 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| G-E3-1-1.0 | L1740925-14 | Pyrene | 1.53 | J | 1.51 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Benzo(a)anthracene | 0.00795 | J | 0.00707 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Benzo(b)fluoranthene | 0.0151 | J | 0.00748 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Benzo(g,h,i)perylene | 0.00972 | J | 0.00734 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Benzo(a)pyrene | 0.0117 | J | 0.00746 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Chrysene | 0.0113 | J | 0.00798 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Fluoranthene | 0.0180 | J | 0.00724 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Fluorene | 0.00742 | J | 0.00653 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Indeno(1,2,3-cd)pyrene | 0.0119 | J | 0.0113 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Naphthalene | 0.0148 | J | 0.0101 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Phenanthrene | 0.0235 | J | 0.00796 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Bis(2-ethylhexyl)phthalate | 0.0888 | J | 0.0508 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | Pyrene | 0.0206 | J | 0.00781 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| G-E3-1-2.0 | L1740925-15 | 2,4-Dimethylphenol | 0.0129 | J | 0.0105 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-E3-1-3.0 | L1740925-16 | Acenaphthylene | 0.0155 | J | 0.0113 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Anthracene | 0.0315 | J | 0.0143 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Benzo(a)anthracene | 0.102 | | 0.0140 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Benzo(b)fluoranthene | 0.196 | | 0.0149 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Benzo(k)fluoranthene | 0.0570 | J | 0.0142 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Benzo(g,h,i)perylene | 0.0933 | | 0.0146 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Benzo(a)pyrene | 0.119 | | 0.0149 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Chrysene | 0.144 | | 0.0158 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Dibenz(a,h)anthracene | 0.0241 | J | 0.0222 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Fluoranthene | 0.244 | | 0.0144 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Fluorene | 0.0192 | J | 0.0130 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Indeno(1,2,3-cd)pyrene | 0.0878 | | 0.0226 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Naphthalene | 0.0211 | J | 0.0201 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Phenanthrene | 0.162 | | 0.0158 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Di-n-butyl phthalate | 0.0538 | J | 0.0274 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-E3-1-3.0 | L1740925-16 | Pyrene | 0.229 | | 0.0156 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Acenaphthylene | 0.0122 | J | 0.0110 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Benzo(a)anthracene | 0.118 | | 0.0137 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Benzo(b)fluoranthene | 0.249 | | 0.0145 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Benzo(k)fluoranthene | 0.0751 | J | 0.0138 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Benzo(g,h,i)perylene | 0.151 | | 0.0143 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Benzo(a)pyrene | 0.198 | | 0.0145 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Chrysene | 0.166 | | 0.0154 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Dibenz(a,h)anthracene | 0.0445 | J | 0.0217 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Fluoranthene | 0.133 | | 0.0140 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Indeno(1,2,3-cd)pyrene | 0.153 | | 0.0220 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Phenanthrene | 0.0495 | J | 0.0154 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-1.0 | L1740925-20 | Pyrene | 0.138 | | 0.0152 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Benzo(a)anthracene | 0.111 | | 0.0155 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Benzo(b)fluoranthene | 0.229 | | 0.0164 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Benzo(k)fluoranthene | 0.0617 | J | 0.0157 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Benzo(g,h,i)perylene | 0.110 | | 0.0162 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Benzo(a)pyrene | 0.137 | | 0.0164 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Chrysene | 0.195 | | 0.0175 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Dibenz(a,h)anthracene | 0.0333 | J | 0.0245 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Fluoranthene | 0.131 | | 0.0159 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Indeno(1,2,3-cd)pyrene | 0.107 | | 0.0249 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Phenanthrene | 0.0452 | J | 0.0175 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-2.0 | L1740925-21 | Pyrene | 0.146 | | 0.0172 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Acenaphthylene | 0.0194 | J | 0.0125 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Anthracene | 0.0219 | J | 0.0159 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Benzo(a)anthracene | 0.168 | | 0.0156 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Benzo(b)fluoranthene | 0.304 | | 0.0166 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Benzo(k)fluoranthene | 0.0940 | | 0.0158 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Benzo(g,h,i)perylene | 0.158 | | 0.0163 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Benzo(a)pyrene | 0.211 | | 0.0166 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Chrysene | 0.260 | | 0.0176 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Dibenz(a,h)anthracene | 0.0447 | J | 0.0247 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Fluoranthene | 0.219 | | 0.0160 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Indeno(1,2,3-cd)pyrene | 0.159 | | 0.0251 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Phenanthrene | 0.0714 | J | 0.0176 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| G-F1-1-3.0 | L1740925-22 | Pyrene | 0.235 | | 0.0174 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.7 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 4.27 | B | 1.16 | 3.50 | 25 | 06/02/2024 16:56 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.0* | | | *77.0-120* | | *06/02/2024 16:56* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0511 | 0.0700 | 1 | 06/04/2024 02:23 | WG2297487 |
| Acrylonitrile | U | | 0.00505 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| Benzene | 0.0114 | | 0.000654 | 0.00140 | 1 | 06/04/2024 02:23 | WG2297487 |
| Bromobenzene | U | | 0.00126 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| Bromodichloromethane | U | | 0.00102 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Bromoform | U | | 0.00164 | 0.0350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Bromomethane | U | | 0.00276 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| n-Butylbenzene | U | | 0.00735 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| sec-Butylbenzene | U | | 0.00403 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| tert-Butylbenzene | U | | 0.00273 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| Carbon tetrachloride | U | | 0.00126 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| Chlorobenzene | U | | 0.000294 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Chlorodibromomethane | U | | 0.000857 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Chloroethane | U | | 0.00238 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| Chloroform | U | | 0.00144 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Chloromethane | U | | 0.00609 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| 2-Chlorotoluene | U | | 0.00121 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 4-Chlorotoluene | U | | 0.000630 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00546 | 0.0350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2-Dibromoethane | U | | 0.000907 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Dibromomethane | U | | 0.00105 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2-Dichlorobenzene | U | | 0.000595 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,3-Dichlorobenzene | U | | 0.000840 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,4-Dichlorobenzene | U | | 0.000980 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| Dichlorodifluoromethane | U | | 0.00225 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,1-Dichloroethane | 0.00266 | J | 0.000687 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2-Dichloroethane | U | | 0.000909 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,1-Dichloroethene | U | | 0.000848 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| cis-1,2-Dichloroethene | 0.0119 | | 0.00103 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| trans-1,2-Dichloroethene | U | | 0.00146 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2-Dichloropropane | U | | 0.00199 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,1-Dichloropropene | U | | 0.00113 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,3-Dichloropropane | U | | 0.000701 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| cis-1,3-Dichloropropene | U | | 0.00106 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| trans-1,3-Dichloropropene | U | | 0.00160 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 2,2-Dichloropropane | U | | 0.00193 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Di-isopropyl ether | U | | 0.000574 | 0.00140 | 1 | 06/04/2024 02:23 | WG2297487 |
| Ethylbenzene | 0.0107 | | 0.00103 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Hexachloro-1,3-butadiene | U | | 0.00840 | 0.0350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Isopropylbenzene | U | | 0.000597 | 0.00351 | 1 | 06/05/2024 21:10 | WG2299252 |
| p-Isopropyltoluene | 0.0277 | | 0.00357 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 2-Butanone (MEK) | U | | 0.0889 | 0.140 | 1 | 06/04/2024 02:23 | WG2297487 |
| Methylene Chloride | U | | 0.00930 | 0.0350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00319 | 0.0350 | 1 | 06/04/2024 02:23 | WG2297487 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000490 | 0.00140 | 1 | 06/04/2024 02:23 | WG2297487 |
| Naphthalene | 0.0218 | | 0.00683 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| n-Propylbenzene | 0.00572 | J | 0.00133 | 0.00702 | 1 | 06/05/2024 21:10 | WG2299252 |
| Styrene | U | | 0.000321 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00133 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000973 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00106 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Tetrachloroethene | U | | 0.00125 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Toluene | 0.0146 | | 0.00182 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2,3-Trichlorobenzene | U | | 0.0103 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2,4-Trichlorobenzene | U | | 0.00616 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,1,1-Trichloroethane | U | | 0.00129 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,1,2-Trichloroethane | U | | 0.000836 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Trichloroethene | U | | 0.000818 | 0.00140 | 1 | 06/04/2024 02:23 | WG2297487 |
| Trichlorofluoromethane | U | | 0.00116 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2,3-Trichloropropane | U | | 0.00227 | 0.0175 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2,4-Trimethylbenzene | 0.0120 | | 0.00221 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,2,3-Trimethylbenzene | 0.00797 | | 0.00221 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| 1,3,5-Trimethylbenzene | 0.00573 | J | 0.00280 | 0.00700 | 1 | 06/04/2024 02:23 | WG2297487 |
| Vinyl chloride | U | | 0.00162 | 0.00350 | 1 | 06/04/2024 02:23 | WG2297487 |
| Xylenes, Total | 0.0344 | | 0.00123 | 0.00910 | 1 | 06/04/2024 02:23 | WG2297487 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/04/2024 02:23* | WG2297487 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/05/2024 21:10* | WG2299252 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/04/2024 02:23* | WG2297487 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/05/2024 21:10* | WG2299252 |
| *(S) 1,2-Dichloroethane-d4* | *83.3* | | | *70.0-130* | | *06/04/2024 02:23* | WG2297487 |
| *(S) 1,2-Dichloroethane-d4* | *89.0* | | | *70.0-130* | | *06/05/2024 21:10* | WG2299252 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 11.5 | J | 4.38 | 23.9 | 5 | 06/05/2024 00:55 | WG2298254 |
| C22-C32 Hydrocarbons | 62.1 | | 7.94 | 23.9 | 5 | 06/05/2024 00:55 | WG2298254 |
| C32-C40 Hydrocarbons | 55.3 | | 7.94 | 23.9 | 5 | 06/05/2024 00:55 | WG2298254 |
| *(S) o-Terphenyl* | *53.5* | | | *18.0-148* | | *06/05/2024 00:55* | WG2298254 |

**Sample Narrative:**

L1740925-01 WG2298254: Cannot run at lower dilution due to viscosity of extract

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.8 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 3.87 | B J | 1.35 | 4.05 | 25 | 06/02/2024 17:19 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.1* | | | *77.0-120* | | *06/02/2024 17:19* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0592 | 0.0810 | 1 | 06/04/2024 02:43 | WG2297487 |
| Acrylonitrile | U | | 0.00585 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| Benzene | 0.000930 | J | 0.000757 | 0.00162 | 1 | 06/04/2024 02:43 | WG2297487 |
| Bromobenzene | U | | 0.00146 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| Bromodichloromethane | U | | 0.00118 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Bromoform | U | | 0.00190 | 0.0405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Bromomethane | U | | 0.00319 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| n-Butylbenzene | U | | 0.00851 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| sec-Butylbenzene | U | | 0.00467 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| tert-Butylbenzene | U | | 0.00316 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| Carbon tetrachloride | U | | 0.00146 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| Chlorobenzene | U | | 0.000340 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Chlorodibromomethane | U | | 0.000992 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Chloroethane | U | | 0.00276 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| Chloroform | U | | 0.00167 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Chloromethane | U | | 0.00705 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| 2-Chlorotoluene | U | | 0.00140 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 4-Chlorotoluene | U | | 0.000729 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00632 | 0.0405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2-Dibromoethane | U | | 0.00105 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Dibromomethane | U | | 0.00122 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2-Dichlorobenzene | U | | 0.000689 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,3-Dichlorobenzene | U | | 0.000972 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,4-Dichlorobenzene | U | | 0.00113 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| Dichlorodifluoromethane | U | | 0.00261 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,1-Dichloroethane | U | | 0.000796 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2-Dichloroethane | U | | 0.00105 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,1-Dichloroethene | U | | 0.000982 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| cis-1,2-Dichloroethene | U | | 0.00119 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| trans-1,2-Dichloroethene | U | | 0.00169 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2-Dichloropropane | U | | 0.00230 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,1-Dichloropropene | U | | 0.00131 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,3-Dichloropropane | U | | 0.000812 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| cis-1,3-Dichloropropene | U | | 0.00123 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| trans-1,3-Dichloropropene | U | | 0.00185 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 2,2-Dichloropropane | U | | 0.00224 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Di-isopropyl ether | U | | 0.000665 | 0.00162 | 1 | 06/04/2024 02:43 | WG2297487 |
| Ethylbenzene | U | | 0.00119 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Hexachloro-1,3-butadiene | U | | 0.00972 | 0.0405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Isopropylbenzene | U | | 0.000689 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| p-Isopropyltoluene | U | | 0.00413 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 2-Butanone (MEK) | U | | 0.103 | 0.162 | 1 | 06/04/2024 02:43 | WG2297487 |
| Methylene Chloride | U | | 0.0108 | 0.0405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00370 | 0.0405 | 1 | 06/04/2024 02:43 | WG2297487 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000567 | 0.00162 | 1 | 06/04/2024 02:43 | WG2297487 |
| Naphthalene | 0.0123 | J | 0.00791 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| n-Propylbenzene | U | | 0.00154 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| Styrene | U | | 0.000371 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00154 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00113 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00122 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Tetrachloroethene | U | | 0.00145 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Toluene | 0.00413 | J | 0.00211 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2,3-Trichlorobenzene | U | | 0.0119 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2,4-Trichlorobenzene | U | | 0.00713 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,1,1-Trichloroethane | U | | 0.00150 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,1,2-Trichloroethane | U | | 0.000968 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Trichloroethene | U | | 0.000947 | 0.00162 | 1 | 06/04/2024 02:43 | WG2297487 |
| Trichlorofluoromethane | U | | 0.00134 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2,3-Trichloropropane | U | | 0.00263 | 0.0203 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2,4-Trimethylbenzene | 0.00438 | J | 0.00256 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,2,3-Trimethylbenzene | 0.00407 | J | 0.00256 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| 1,3,5-Trimethylbenzene | U | | 0.00324 | 0.00810 | 1 | 06/04/2024 02:43 | WG2297487 |
| Vinyl chloride | U | | 0.00188 | 0.00405 | 1 | 06/04/2024 02:43 | WG2297487 |
| Xylenes, Total | 0.00679 | J | 0.00143 | 0.0105 | 1 | 06/04/2024 02:43 | WG2297487 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/04/2024 02:43* | WG2297487 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/04/2024 02:43* | WG2297487 |
| *(S) 1,2-Dichloroethane-d4* | *83.8* | | | *70.0-130* | | *06/04/2024 02:43* | WG2297487 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.97 | J | 1.89 | 10.3 | 2 | 06/05/2024 11:26 | WG2298254 |
| C22-C32 Hydrocarbons | 7.03 | J | 3.42 | 10.3 | 2 | 06/05/2024 11:26 | WG2298254 |
| C32-C40 Hydrocarbons | 7.57 | J | 3.42 | 10.3 | 2 | 06/05/2024 11:26 | WG2298254 |
| *(S) o-Terphenyl* | *43.9* | | | *18.0-148* | | *06/05/2024 11:26* | WG2298254 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 06/02/2024 17:43 | WG2294959 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/30/2024 20:22 | WG2294965 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | U | | 0.736 | 5.00 | 1 | 06/04/2024 21:34 | WG2296317 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/04/2024 21:34 | WG2296317 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/04/2024 21:34 | WG2296317 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 | 1 | 06/04/2024 21:34 | WG2296317 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 | 1 | 06/04/2024 21:34 | WG2296317 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 | 1 | 06/04/2024 21:34 | WG2296317 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Antimony,Dissolved | U | | 1.03 | 4.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Arsenic | U | | 0.180 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Barium | U | | 0.381 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Chromium | U | | 1.24 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Copper | U | | 1.51 | 5.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Copper,Dissolved | U | | 1.51 | 5.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Cobalt | U | | 0.0596 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Lead | U | | 0.849 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Molybdenum | U | | 0.348 | 5.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Nickel | U | | 0.816 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Nickel,Dissolved | U | | 0.816 | 2.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Selenium | U | | 0.300 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/19/2024 00:59 | WG2297585 |
| Vanadium | U | | 0.664 | 5.00 | 1 | 06/27/2024 22:35 | WG2305428 |
| Zinc | U | | 3.02 | 25.0 | 1 | 06/27/2024 22:35 | WG2305428 |
| Zinc,Dissolved | U | | 3.02 | 25.0 | 1 | 06/19/2024 00:59 | WG2297585 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 06/03/2024 12:58 | WG2297466 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *78.0-120* | | *06/03/2024 12:58* | WG2297466 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | J3 | 11.3 | 50.0 | 1 | 06/03/2024 19:21 | WG2297610 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 19:21 | WG2297610 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 19:21 | WG2297610 |
| Benzene | 0.0943 | J | 0.0941 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Chloroethane | U | J3 | 0.192 | 5.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 19:21 | WG2297610 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Ethylbenzene | 0.151 | J | 0.137 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 19:21 | WG2297610 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 19:21 | WG2297610 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 19:21 | WG2297610 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *06/03/2024 19:21* | WG2297610 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *77.0-126* | | *06/03/2024 19:21* | WG2297610 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *06/03/2024 19:21* | WG2297610 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 16:12 | WG2295250 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 16:12 | WG2295250 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 05/31/2024 16:12 | WG2295250 |
| *(S) o-Terphenyl* | *60.5* | | | *52.0-156* | | *05/31/2024 16:12* | WG2295250 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.4 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.165 | | 0.0191 | 0.0424 | 1 | 06/01/2024 17:56 | WG2295935 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 10.5 | | 0.576 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| Arsenic | 7.75 | | 0.549 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| Barium | 373 | | 0.0903 | 0.530 | 1 | 06/05/2024 11:29 | WG2297398 |
| Beryllium | 0.149 | J | 0.0334 | 0.212 | 1 | 06/05/2024 11:29 | WG2297398 |
| Cadmium | 1.73 | | 0.0499 | 0.530 | 1 | 06/05/2024 11:29 | WG2297398 |
| Chromium | 147 | | 0.141 | 1.06 | 1 | 06/05/2024 11:29 | WG2297398 |
| Cobalt | 8.99 | | 0.0859 | 1.06 | 1 | 06/05/2024 11:29 | WG2297398 |
| Copper | 266 | | 0.424 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| Lead | 239 | | 0.220 | 0.530 | 1 | 06/05/2024 11:29 | WG2297398 |
| Molybdenum | 14.9 | | 0.115 | 0.530 | 1 | 06/05/2024 11:29 | WG2297398 |
| Nickel | 73.7 | | 0.140 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| Selenium | U | | 0.809 | 2.12 | 1 | 06/06/2024 01:03 | WG2297398 |
| Silver | U | | 0.135 | 1.06 | 1 | 06/05/2024 11:29 | WG2297398 |
| Thallium | U | | 0.417 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| Vanadium | 46.0 | | 0.536 | 2.12 | 1 | 06/05/2024 11:29 | WG2297398 |
| Zinc | 708 | | 0.881 | 5.30 | 1 | 06/05/2024 11:29 | WG2297398 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0125 | 0.0360 | 1 | 06/03/2024 20:43 | WG2297376 |
| PCB 1221 | U | | 0.0125 | 0.0360 | 1 | 06/03/2024 20:43 | WG2297376 |
| PCB 1232 | U | | 0.0125 | 0.0360 | 1 | 06/03/2024 20:43 | WG2297376 |
| PCB 1242 | U | | 0.0125 | 0.0360 | 1 | 06/03/2024 20:43 | WG2297376 |
| PCB 1248 | U | | 0.00782 | 0.0180 | 1 | 06/03/2024 20:43 | WG2297376 |
| PCB 1254 | 0.790 | | 0.0391 | 0.0900 | 5 | 06/04/2024 14:13 | WG2297376 |
| PCB 1260 | U | | 0.00782 | 0.0180 | 1 | 06/03/2024 20:43 | WG2297376 |
| *(S) Decachlorobiphenyl* | *149* | J1 | | *10.0-135* | | *06/03/2024 20:43* | WG2297376 |
| *(S) Decachlorobiphenyl* | *76.9* | | | *10.0-135* | | *06/04/2024 14:13* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *98.5* | | | *10.0-139* | | *06/03/2024 20:43* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *68.8* | | | *10.0-139* | | *06/04/2024 14:13* | WG2297376 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | 0.141 | J | 0.0571 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Acenaphthylene | 0.110 | J | 0.0497 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Anthracene | 0.416 | | 0.0628 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Benzidine | U | | 0.663 | 17.7 | 10 | 06/08/2024 00:22 | WG2298678 |
| Benzo(a)anthracene | 1.26 | | 0.0622 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Benzo(b)fluoranthene | 1.68 | | 0.0658 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Benzo(k)fluoranthene | 0.510 | | 0.0627 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Benzo(g,h,i)perylene | 0.550 | | 0.0645 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Benzo(a)pyrene | 1.10 | | 0.0656 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.106 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.117 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.153 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.124 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.0620 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.123 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Chrysene | 1.19 | | 0.0701 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Dibenz(a,h)anthracene | 0.163 | J | 0.0978 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.105 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.107 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.105 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.130 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.101 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.115 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Fluoranthene | 2.88 | | 0.0637 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Fluorene | 0.213 | J | 0.0574 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Hexachlorobenzene | U | | 0.125 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.119 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.185 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Hexachloroethane | U | | 0.139 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.638 | | 0.0997 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Isophorone | U | | 0.108 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Naphthalene | U | | 0.0886 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Nitrobenzene | U | | 0.123 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.523 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.267 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.118 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Phenanthrene | 1.72 | | 0.0700 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.110 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 0.447 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.121 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Diethyl phthalate | U | | 0.117 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Dimethyl phthalate | U | | 0.748 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.238 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Pyrene | 1.99 | | 0.0686 | 0.353 | 10 | 06/08/2024 00:22 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.110 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.114 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2-Chlorophenol | U | | 0.117 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.103 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.0922 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.800 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.825 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2-Nitrophenol | U | | 0.126 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 4-Nitrophenol | U | | 0.110 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Pentachlorophenol | U | | 0.0949 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| Phenol | U | | 0.142 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.113 | 3.53 | 10 | 06/08/2024 00:22 | WG2298678 |
| *(S) 2-Fluorophenol* | *79.6* | | | *12.0-120* | | *06/08/2024 00:22* | WG2298678 |
| *(S) Phenol-d5* | *73.3* | | | *10.0-120* | | *06/08/2024 00:22* | WG2298678 |
| *(S) Nitrobenzene-d5* | *69.0* | | | *10.0-122* | | *06/08/2024 00:22* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *77.6* | | | *15.0-120* | | *06/08/2024 00:22* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *72.4* | | | *10.0-127* | | *06/08/2024 00:22* | WG2298678 |
| *(S) p-Terphenyl-d14* | *84.0* | | | *10.0-120* | | *06/08/2024 00:22* | WG2298678 |

**Sample Narrative:**

L1740925-04 WG2298678: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 89.8 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.607 | J3 J5 J6 | 0.0200 | 0.0445 | 1 | 06/01/2024 17:41 | WG2295935 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 4.22 | | 0.606 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| Arsenic | 13.3 | | 0.577 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| Barium | 271 | | 0.0949 | 0.557 | 1 | 06/05/2024 11:31 | WG2297398 |
| Beryllium | 0.289 | | 0.0351 | 0.223 | 1 | 06/05/2024 11:31 | WG2297398 |
| Cadmium | 1.06 | | 0.0524 | 0.557 | 1 | 06/05/2024 11:31 | WG2297398 |
| Chromium | 81.8 | | 0.148 | 1.11 | 1 | 06/05/2024 11:31 | WG2297398 |
| Cobalt | 6.12 | | 0.0903 | 1.11 | 1 | 06/05/2024 11:31 | WG2297398 |
| Copper | 65.9 | | 0.445 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| Lead | 167 | | 0.232 | 0.557 | 1 | 06/05/2024 11:31 | WG2297398 |
| Molybdenum | 2.52 | | 0.121 | 0.557 | 1 | 06/05/2024 11:31 | WG2297398 |
| Nickel | 30.5 | | 0.147 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| Selenium | U | | 0.851 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| Silver | 0.162 | J | 0.141 | 1.11 | 1 | 06/05/2024 11:31 | WG2297398 |
| Thallium | U | | 0.439 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| Vanadium | 32.8 | | 0.563 | 2.23 | 1 | 06/05/2024 11:31 | WG2297398 |
| Zinc | 221 | | 0.926 | 5.57 | 1 | 06/05/2024 11:31 | WG2297398 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0586 | 0.0803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Acrylonitrile | U | | 0.00580 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Benzene | U | | 0.000750 | 0.00161 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Bromobenzene | U | | 0.00145 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Bromodichloromethane | U | | 0.00117 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Bromoform | U | | 0.00188 | 0.0402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Bromomethane | U | | 0.00316 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| n-Butylbenzene | U | | 0.00844 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| sec-Butylbenzene | U | | 0.00463 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| tert-Butylbenzene | U | | 0.00313 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Carbon tetrachloride | U | | 0.00144 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Chlorobenzene | U | | 0.000337 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Chlorodibromomethane | U | | 0.000983 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Chloroethane | U | | 0.00273 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Chloroform | U | | 0.00165 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Chloromethane | U | | 0.00699 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 2-Chlorotoluene | U | | 0.00139 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 4-Chlorotoluene | U | | 0.000723 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00627 | 0.0402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2-Dibromoethane | U | | 0.00104 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Dibromomethane | U | | 0.00121 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2-Dichlorobenzene | U | | 0.000683 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,3-Dichlorobenzene | U | | 0.000964 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,4-Dichlorobenzene | U | | 0.00112 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00259 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,1-Dichloroethane | U | | 0.000789 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2-Dichloroethane | U | | 0.00104 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,1-Dichloroethene | U | | 0.000973 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| cis-1,2-Dichloroethene | U | | 0.00118 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| trans-1,2-Dichloroethene | U | | 0.00167 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2-Dichloropropane | U | | 0.00228 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,1-Dichloropropene | U | | 0.00129 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,3-Dichloropropane | U | | 0.000804 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| cis-1,3-Dichloropropene | U | | 0.00121 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| trans-1,3-Dichloropropene | U | | 0.00183 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 2,2-Dichloropropane | U | | 0.00222 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Di-isopropyl ether | U | | 0.000658 | 0.00161 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Ethylbenzene | 0.00622 | | 0.00118 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Hexachloro-1,3-butadiene | U | | 0.00964 | 0.0402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Isopropylbenzene | U | | 0.000683 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| p-Isopropyltoluene | U | | 0.00410 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 2-Butanone (MEK) | U | | 0.102 | 0.161 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Methylene Chloride | U | | 0.0107 | 0.0402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00367 | 0.0402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Methyl tert-butyl ether | U | | 0.000562 | 0.00161 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Naphthalene | U | | 0.00784 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| n-Propylbenzene | U | | 0.00152 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Styrene | U | | 0.000368 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00152 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00112 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00121 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Tetrachloroethene | U | | 0.00144 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Toluene | U | | 0.00209 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2,3-Trichlorobenzene | U | | 0.0118 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2,4-Trichlorobenzene | U | | 0.00707 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,1,1-Trichloroethane | U | | 0.00149 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,1,2-Trichloroethane | U | | 0.000959 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Trichloroethene | U | | 0.000939 | 0.00161 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Trichlorofluoromethane | U | | 0.00133 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2,3-Trichloropropane | U | | 0.00260 | 0.0201 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2,4-Trimethylbenzene | U | | 0.00254 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,2,3-Trimethylbenzene | U | | 0.00254 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| 1,3,5-Trimethylbenzene | U | | 0.00321 | 0.00803 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Vinyl chloride | U | | 0.00186 | 0.00402 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| Xylenes, Total | 0.0449 | | 0.00141 | 0.0104 | 1.34 | 06/04/2024 03:03 | WG2297487 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/04/2024 03:03* | WG2297487 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/04/2024 03:03* | WG2297487 |
| *(S) 1,2-Dichloroethane-d4* | *87.4* | | | *70.0-130* | | *06/04/2024 03:03* | WG2297487 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0131 | 0.0379 | 1 | 06/14/2024 21:52 | WG2304143 |
| PCB 1221 | U | | 0.0131 | 0.0379 | 1 | 06/14/2024 21:52 | WG2304143 |
| PCB 1232 | U | | 0.0131 | 0.0379 | 1 | 06/14/2024 21:52 | WG2304143 |
| PCB 1242 | U | | 0.0131 | 0.0379 | 1 | 06/14/2024 21:52 | WG2304143 |
| PCB 1248 | U | | 0.00822 | 0.0189 | 1 | 06/14/2024 21:52 | WG2304143 |
| PCB 1254 | 3.69 | | 0.0822 | 0.189 | 10 | 06/21/2024 01:17 | WG2304143 |
| PCB 1260 | U | | 0.00822 | 0.0189 | 1 | 06/14/2024 21:52 | WG2304143 |
| *(S) Decachlorobiphenyl* | *105* | | | *10.0-135* | | *06/21/2024 01:17* | WG2304143 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Decachlorobiphenyl* | *120* | | | *10.0-135* | | *06/14/2024 21:52* | WG2304143 |
| *(S) Tetrachloro-m-xylene* | *106* | | | *10.0-139* | | *06/21/2024 01:17* | WG2304143 |
| *(S) Tetrachloro-m-xylene* | *114* | | | *10.0-139* | | *06/14/2024 21:52* | WG2304143 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00600 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Acenaphthylene | U | | 0.00522 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Anthracene | 0.00795 | J | 0.00660 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Benzidine | U | | 0.0697 | 1.86 | 1 | 06/06/2024 17:40 | WG2298678 |
| Benzo(a)anthracene | 0.0938 | | 0.00654 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Benzo(b)fluoranthene | 0.168 | | 0.00692 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Benzo(k)fluoranthene | 0.0578 | | 0.00659 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Benzo(g,h,i)perylene | 0.0549 | | 0.00678 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Benzo(a)pyrene | 0.112 | | 0.00689 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0111 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0122 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0160 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0130 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00651 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0129 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Chrysene | 0.137 | | 0.00737 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Dibenz(a,h)anthracene | 0.0193 | J | 0.0103 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0110 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0112 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0110 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0137 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0106 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0121 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Fluoranthene | 0.0935 | | 0.00669 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Fluorene | U | | 0.00604 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Hexachlorobenzene | U | | 0.0131 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0125 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0195 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Hexachloroethane | U | | 0.0146 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.0688 | | 0.0105 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Isophorone | U | | 0.0114 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Naphthalene | U | | 0.00931 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Nitrobenzene | U | | 0.0129 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0550 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0281 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0124 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Phenanthrene | 0.0337 | J | 0.00736 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Benzylbutyl phthalate | 0.0134 | J | 0.0116 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0470 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0127 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Diethyl phthalate | U | | 0.0122 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Dimethyl phthalate | U | | 0.0786 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0251 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Pyrene | 0.110 | | 0.00722 | 0.0371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0116 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0120 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2-Chlorophenol | U | | 0.0122 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0108 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.00969 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | U | | 0.0841 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0867 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2-Nitrophenol | U | | 0.0133 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 4-Nitrophenol | U | | 0.0116 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Pentachlorophenol | U | | 0.00998 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| Phenol | 0.0340 | J | 0.0149 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0119 | 0.371 | 1 | 06/06/2024 17:40 | WG2298678 |
| *(S) 2-Fluorophenol* | *38.5* | | | *12.0-120* | | *06/06/2024 17:40* | WG2298678 |
| *(S) Phenol-d5* | *45.1* | | | *10.0-120* | | *06/06/2024 17:40* | WG2298678 |
| *(S) Nitrobenzene-d5* | *36.9* | | | *10.0-122* | | *06/06/2024 17:40* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *43.6* | | | *15.0-120* | | *06/06/2024 17:40* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *24.4* | | | *10.0-127* | | *06/06/2024 17:40* | WG2298678 |
| *(S) p-Terphenyl-d14* | *49.7* | | | *10.0-120* | | *06/06/2024 17:40* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 89.7 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0201 | 0.0446 | 1 | 06/01/2024 17:58 | WG2295935 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 9.32 | | 0.606 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| Arsenic | 38.7 | | 0.577 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| Barium | 655 | | 0.0950 | 0.557 | 1 | 06/05/2024 11:32 | WG2297398 |
| Beryllium | 0.769 | | 0.0351 | 0.223 | 1 | 06/05/2024 11:32 | WG2297398 |
| Cadmium | 2.43 | | 0.0525 | 0.557 | 1 | 06/05/2024 11:32 | WG2297398 |
| Chromium | 115 | | 0.148 | 1.11 | 1 | 06/05/2024 11:32 | WG2297398 |
| Cobalt | 9.29 | | 0.0904 | 1.11 | 1 | 06/05/2024 11:32 | WG2297398 |
| Copper | 307 | | 0.446 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| Lead | 400 | | 0.232 | 0.557 | 1 | 06/05/2024 11:32 | WG2297398 |
| Molybdenum | 4.96 | | 0.121 | 0.557 | 1 | 06/05/2024 11:32 | WG2297398 |
| Nickel | 40.7 | | 0.147 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| Selenium | U | | 0.852 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| Silver | 0.327 | J | 0.142 | 1.11 | 1 | 06/05/2024 11:32 | WG2297398 |
| Thallium | U | | 0.439 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| Vanadium | 57.4 | | 0.564 | 2.23 | 1 | 06/05/2024 11:32 | WG2297398 |
| Zinc | 601 | | 0.927 | 5.57 | 1 | 06/05/2024 11:32 | WG2297398 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 13.1 | B | 1.03 | 3.10 | 25 | 06/02/2024 17:46 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *89.3* | | | *77.0-120* | | *06/02/2024 17:46* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0453 | 0.0620 | 1 | 06/03/2024 17:04 | WG2297589 |
| Acrylonitrile | U | | 0.00448 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| Benzene | 0.00832 | | 0.000579 | 0.00124 | 1 | 06/03/2024 17:04 | WG2297589 |
| Bromobenzene | U | | 0.00112 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| Bromodichloromethane | U | | 0.000899 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Bromoform | U | | 0.00145 | 0.0310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Bromomethane | U | | 0.00244 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| n-Butylbenzene | U | | 0.00651 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| sec-Butylbenzene | 0.00396 | J | 0.00357 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| tert-Butylbenzene | U | | 0.00242 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| Carbon tetrachloride | U | | 0.00111 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| Chlorobenzene | 0.000283 | B J | 0.000260 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Chlorodibromomethane | U | | 0.000759 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Chloroethane | U | | 0.00211 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| Chloroform | U | | 0.00128 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Chloromethane | U | | 0.00540 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00107 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000558 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00484 | 0.0310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.000804 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Dibromomethane | U | | 0.000930 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000527 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.000744 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,4-Dichlorobenzene | 0.00239 | J | 0.000868 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| Dichlorodifluoromethane | U | | 0.00200 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,1-Dichloroethane | 0.00138 | J | 0.000609 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.000805 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.000752 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.000910 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00129 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00176 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00100 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000621 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.000939 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00141 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00171 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Di-isopropyl ether | U | | 0.000509 | 0.00124 | 1 | 06/03/2024 17:04 | WG2297589 |
| Ethylbenzene | 0.0109 | | 0.000914 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.00744 | 0.0310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Isopropylbenzene | 0.00660 | | 0.000527 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| p-Isopropyltoluene | 0.0108 | | 0.00316 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.0788 | 0.124 | 1 | 06/03/2024 17:04 | WG2297589 |
| Methylene Chloride | 0.0153 | J | 0.00824 | 0.0310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | 0.00454 | J | 0.00283 | 0.0310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Methyl tert-butyl ether | U | | 0.000434 | 0.00124 | 1 | 06/03/2024 17:04 | WG2297589 |
| Naphthalene | 0.0543 | | 0.00605 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| n-Propylbenzene | 0.00494 | J | 0.00118 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| Styrene | U | | 0.000284 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00118 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000862 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000935 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Tetrachloroethene | 0.00474 | | 0.00111 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Toluene | 0.0296 | | 0.00161 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.00909 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00546 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,1,1-Trichloroethane | 0.00812 | | 0.00114 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.000740 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Trichloroethene | 0.000734 | J | 0.000724 | 0.00124 | 1 | 06/03/2024 17:04 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00103 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00201 | 0.0155 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2,4-Trimethylbenzene | 0.0354 | | 0.00196 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,2,3-Trimethylbenzene | 0.0872 | | 0.00196 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| 1,3,5-Trimethylbenzene | 0.0187 | | 0.00248 | 0.00620 | 1 | 06/03/2024 17:04 | WG2297589 |
| Vinyl chloride | U | | 0.00144 | 0.00310 | 1 | 06/03/2024 17:04 | WG2297589 |
| Xylenes, Total | 0.0686 | | 0.00109 | 0.00806 | 1 | 06/03/2024 17:04 | WG2297589 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/03/2024 17:04* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/03/2024 17:04* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *94.9* | | | *70.0-130* | | *06/03/2024 17:04* | WG2297589 |

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

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 34.6 | J | 8.17 | 44.6 | 10 | 06/05/2024 02:15 | WG2298254 |
| C22-C32 Hydrocarbons | 181 | | 14.8 | 44.6 | 10 | 06/05/2024 02:15 | WG2298254 |
| C32-C40 Hydrocarbons | 127 | | 14.8 | 44.6 | 10 | 06/05/2024 02:15 | WG2298254 |
| *(S) o-Terphenyl* | *52.7* | | | *18.0-148* | | *06/05/2024 02:15* | WG2298254 |

**Sample Narrative:**

L1740925-06 WG2298254: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0207 | J | 0.00601 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Acenaphthylene | 0.0161 | J | 0.00523 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Anthracene | 0.0599 | | 0.00661 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Benzidine | U | | 0.0698 | 1.86 | 1 | 06/06/2024 18:05 | WG2298678 |
| Benzo(a)anthracene | 0.378 | | 0.00654 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Benzo(b)fluoranthene | 0.737 | | 0.00692 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Benzo(k)fluoranthene | 0.215 | | 0.00660 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Benzo(g,h,i)perylene | 0.200 | | 0.00679 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Benzo(a)pyrene | 0.448 | | 0.00690 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0111 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0123 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0161 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0130 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00652 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0129 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Chrysene | 0.495 | | 0.00738 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Dibenz(a,h)anthracene | 0.0753 | | 0.0103 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0110 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0113 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0110 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0137 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0106 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0121 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Fluoranthene | 0.492 | | 0.00670 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Fluorene | 0.0196 | J | 0.00604 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Hexachlorobenzene | U | | 0.0132 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0125 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0195 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Hexachloroethane | U | | 0.0146 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.255 | | 0.0105 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Isophorone | U | | 0.0114 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Naphthalene | 0.0607 | | 0.00932 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Nitrobenzene | U | | 0.0129 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0551 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0281 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0124 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Phenanthrene | 0.227 | | 0.00737 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Benzylbutyl phthalate | 0.0156 | J | 0.0116 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | 0.111 | J | 0.0470 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Di-n-butyl phthalate | 0.0282 | J | 0.0127 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Diethyl phthalate | U | | 0.0123 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Dimethyl phthalate | U | | 0.0787 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0251 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Pyrene | 0.471 | | 0.00722 | 0.0371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0116 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.0120 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2-Chlorophenol | U | | 0.0123 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0108 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.00970 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0842 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0868 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2-Nitrophenol | U | | 0.0133 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 4-Nitrophenol | U | | 0.0116 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Pentachlorophenol | U | | 0.00999 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| Phenol | 0.448 | | 0.0149 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0119 | 0.371 | 1 | 06/06/2024 18:05 | WG2298678 |
| *(S) 2-Fluorophenol* | *59.0* | | | *12.0-120* | | *06/06/2024 18:05* | WG2298678 |
| *(S) Phenol-d5* | *55.4* | | | *10.0-120* | | *06/06/2024 18:05* | WG2298678 |
| *(S) Nitrobenzene-d5* | *46.9* | | | *10.0-122* | | *06/06/2024 18:05* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *55.3* | | | *15.0-120* | | *06/06/2024 18:05* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *55.7* | | | *10.0-127* | | *06/06/2024 18:05* | WG2298678 |
| *(S) p-Terphenyl-d14* | *58.1* | | | *10.0-120* | | *06/06/2024 18:05* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 79.3 | | 1 | 06/07/2024 12:45 | WG2300491 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0637 | | 0.0227 | 0.0504 | 1 | 06/09/2024 17:31 | WG2300577 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 4.11 | | 0.686 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| Arsenic | 5.04 | B | 0.653 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| Barium | 138 | | 0.107 | 0.630 | 1 | 06/13/2024 18:22 | WG2300670 |
| Beryllium | 0.203 | J | 0.0397 | 0.252 | 1 | 06/13/2024 18:22 | WG2300670 |
| Cadmium | 0.800 | | 0.0594 | 0.630 | 1 | 06/13/2024 18:22 | WG2300670 |
| Chromium | 46.7 | | 0.168 | 1.26 | 1 | 06/13/2024 18:22 | WG2300670 |
| Cobalt | 7.89 | | 0.102 | 1.26 | 1 | 06/13/2024 18:22 | WG2300670 |
| Copper | 212 | | 0.504 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| Lead | 151 | | 0.262 | 0.630 | 1 | 06/13/2024 18:22 | WG2300670 |
| Molybdenum | 0.518 | J | 0.137 | 0.630 | 1 | 06/13/2024 18:22 | WG2300670 |
| Nickel | 82.7 | | 0.166 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| Selenium | U | | 0.963 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| Silver | U | | 0.160 | 1.26 | 1 | 06/13/2024 18:22 | WG2300670 |
| Thallium | U | | 0.497 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| Vanadium | 35.7 | | 0.638 | 2.52 | 1 | 06/13/2024 18:22 | WG2300670 |
| Zinc | 156 | | 1.05 | 6.30 | 1 | 06/13/2024 18:22 | WG2300670 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 81.5 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 3.84 | B | 1.23 | 3.71 | 25 | 06/02/2024 18:10 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.2* | | | *77.0-120* | | *06/02/2024 18:10* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0542 | 0.0742 | 1 | 06/03/2024 17:23 | WG2297589 |
| Acrylonitrile | U | | 0.00536 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| Benzene | U | | 0.000693 | 0.00148 | 1 | 06/03/2024 17:23 | WG2297589 |
| Bromobenzene | U | | 0.00134 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| Bromodichloromethane | U | | 0.00108 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Bromoform | U | | 0.00174 | 0.0371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Bromomethane | U | | 0.00292 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| n-Butylbenzene | U | | 0.00779 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| sec-Butylbenzene | U | | 0.00427 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| tert-Butylbenzene | U | | 0.00289 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| Carbon tetrachloride | U | | 0.00133 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| Chlorobenzene | U | | 0.000312 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Chlorodibromomethane | U | | 0.000908 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Chloroethane | U | | 0.00252 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| Chloroform | U | | 0.00153 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Chloromethane | U | | 0.00645 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00128 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000668 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00579 | 0.0371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.000962 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Dibromomethane | U | | 0.00111 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000631 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.000890 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.00104 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| Dichlorodifluoromethane | U | | 0.00239 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000729 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.000963 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.000899 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.00109 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00154 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00211 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00120 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000743 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.00112 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00169 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00205 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Di-isopropyl ether | U | | 0.000608 | 0.00148 | 1 | 06/03/2024 17:23 | WG2297589 |
| Ethylbenzene | U | | 0.00109 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.00890 | 0.0371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Isopropylbenzene | U | | 0.000631 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00378 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.0942 | 0.148 | 1 | 06/03/2024 17:23 | WG2297589 |
| Methylene Chloride | 0.0168 | J | 0.00985 | 0.0371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00338 | 0.0371 | 1 | 06/03/2024 17:23 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000519 | 0.00148 | 1 | 06/03/2024 17:23 | WG2297589 |
| Naphthalene | U | | 0.00724 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| n-Propylbenzene | U | | 0.00141 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| Styrene | U | | 0.000340 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00141 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00103 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00112 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Tetrachloroethene | U | | 0.00133 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Toluene | U | | 0.00193 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.0109 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00653 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00137 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.000886 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Trichloroethene | U | | 0.000867 | 0.00148 | 1 | 06/03/2024 17:23 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00123 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00240 | 0.0185 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2,4-Trimethylbenzene | U | | 0.00234 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,2,3-Trimethylbenzene | U | | 0.00234 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00297 | 0.00742 | 1 | 06/03/2024 17:23 | WG2297589 |
| Vinyl chloride | U | | 0.00172 | 0.00371 | 1 | 06/03/2024 17:23 | WG2297589 |
| Xylenes, Total | 0.00181 | J | 0.00131 | 0.00964 | 1 | 06/03/2024 17:23 | WG2297589 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/03/2024 17:23* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/03/2024 17:23* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *92.3* | | | *70.0-130* | | *06/03/2024 17:23* | WG2297589 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 45.0 | 245 | 50 | 06/05/2024 03:08 | WG2298254 |
| C22-C32 Hydrocarbons | 351 | | 81.6 | 245 | 50 | 06/05/2024 03:08 | WG2298254 |
| C32-C40 Hydrocarbons | 557 | | 81.6 | 245 | 50 | 06/05/2024 03:08 | WG2298254 |
| *(S) o-Terphenyl* | *47.9* | J7 | | *18.0-148* | | *06/05/2024 03:08* | WG2298254 |

**Sample Narrative:**

L1740925-08 WG2298254: Cannot run at lower dilution due to viscosity of extract

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 86.9 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0679 | | 0.0207 | 0.0460 | 1 | 06/01/2024 18:01 | WG2295935 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 3.69 | | 0.626 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| Arsenic | 6.35 | | 0.596 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| Barium | 160 | | 0.0980 | 0.575 | 1 | 06/05/2024 11:34 | WG2297398 |
| Beryllium | 0.137 | J | 0.0362 | 0.230 | 1 | 06/05/2024 11:34 | WG2297398 |
| Cadmium | 0.183 | J | 0.0542 | 0.575 | 1 | 06/05/2024 11:34 | WG2297398 |
| Chromium | 41.2 | | 0.153 | 1.15 | 1 | 06/05/2024 11:34 | WG2297398 |
| Cobalt | 7.52 | | 0.0933 | 1.15 | 1 | 06/05/2024 11:34 | WG2297398 |
| Copper | 30.3 | | 0.460 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| Lead | 49.2 | | 0.239 | 0.575 | 1 | 06/05/2024 11:34 | WG2297398 |
| Molybdenum | 4.17 | | 0.125 | 0.575 | 1 | 06/05/2024 11:34 | WG2297398 |
| Nickel | 35.8 | | 0.152 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| Selenium | U | | 0.879 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| Silver | U | | 0.146 | 1.15 | 1 | 06/05/2024 11:34 | WG2297398 |
| Thallium | U | | 0.453 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| Vanadium | 41.1 | | 0.582 | 2.30 | 1 | 06/05/2024 11:34 | WG2297398 |
| Zinc | 85.2 | | 0.957 | 5.75 | 1 | 06/05/2024 11:34 | WG2297398 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0136 | 0.0391 | 1 | 06/03/2024 20:52 | WG2297376 |
| PCB 1221 | U | | 0.0136 | 0.0391 | 1 | 06/03/2024 20:52 | WG2297376 |
| PCB 1232 | U | | 0.0136 | 0.0391 | 1 | 06/03/2024 20:52 | WG2297376 |
| PCB 1242 | U | | 0.0136 | 0.0391 | 1 | 06/03/2024 20:52 | WG2297376 |
| PCB 1248 | U | | 0.00849 | 0.0196 | 1 | 06/03/2024 20:52 | WG2297376 |
| PCB 1254 | U | | 0.00849 | 0.0196 | 1 | 06/03/2024 20:52 | WG2297376 |
| PCB 1260 | U | | 0.00849 | 0.0196 | 1 | 06/03/2024 20:52 | WG2297376 |
| *(S) Decachlorobiphenyl* | *86.1* | | | *10.0-135* | | *06/03/2024 20:52* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *74.1* | | | *10.0-139* | | *06/03/2024 20:52* | WG2297376 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00620 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Acenaphthylene | U | | 0.00539 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Anthracene | U | | 0.00682 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Benzidine | U | | 0.0720 | 1.92 | 1 | 06/06/2024 16:01 | WG2298678 |
| Benzo(a)anthracene | 0.0168 | J | 0.00675 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Benzo(b)fluoranthene | 0.0263 | J | 0.00714 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Benzo(k)fluoranthene | 0.00798 | J | 0.00681 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Benzo(g,h,i)perylene | 0.0168 | J | 0.00700 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Benzo(a)pyrene | 0.0177 | J | 0.00712 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0115 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0127 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0166 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0135 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00673 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0133 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Chrysene | 0.0221 | J | 0.00761 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.0106 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0114 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0116 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0114 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0141 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0110 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0125 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Fluoranthene | 0.0166 | J | 0.00691 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Fluorene | U | | 0.00623 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Hexachlorobenzene | U | | 0.0136 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0129 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0201 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Hexachloroethane | U | | 0.0151 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.0160 | J | 0.0108 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Isophorone | U | | 0.0117 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Naphthalene | U | | 0.00962 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Nitrobenzene | U | | 0.0133 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0568 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0290 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0128 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Phenanthrene | 0.0110 | J | 0.00760 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.0120 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0485 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0131 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Diethyl phthalate | U | | 0.0127 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Dimethyl phthalate | U | | 0.0812 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0259 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Pyrene | 0.0213 | J | 0.00745 | 0.0383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0120 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0124 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2-Chlorophenol | U | | 0.0127 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0112 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.0100 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0868 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0896 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2-Nitrophenol | U | | 0.0137 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 4-Nitrophenol | U | | 0.0120 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Pentachlorophenol | U | | 0.0103 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| Phenol | U | | 0.0154 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0123 | 0.383 | 1 | 06/06/2024 16:01 | WG2298678 |
| *(S) 2-Fluorophenol* | *40.9* | | | *12.0-120* | | *06/06/2024 16:01* | WG2298678 |
| *(S) Phenol-d5* | *42.1* | | | *10.0-120* | | *06/06/2024 16:01* | WG2298678 |
| *(S) Nitrobenzene-d5* | *32.1* | | | *10.0-122* | | *06/06/2024 16:01* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *41.4* | | | *15.0-120* | | *06/06/2024 16:01* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *50.0* | | | *10.0-127* | | *06/06/2024 16:01* | WG2298678 |
| *(S) p-Terphenyl-d14* | *51.2* | | | *10.0-120* | | *06/06/2024 16:01* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 87.2 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.103 | | 0.0206 | 0.0459 | 1 | 06/01/2024 18:03 | WG2295935 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 2.56 | | 0.624 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| Arsenic | 4.27 | | 0.594 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| Barium | 183 | | 0.0977 | 0.573 | 1 | 06/05/2024 11:36 | WG2297398 |
| Beryllium | 0.408 | | 0.0361 | 0.229 | 1 | 06/05/2024 11:36 | WG2297398 |
| Cadmium | 0.151 | J | 0.0540 | 0.573 | 1 | 06/05/2024 11:36 | WG2297398 |
| Chromium | 45.5 | | 0.152 | 1.15 | 1 | 06/05/2024 11:36 | WG2297398 |
| Cobalt | 10.3 | | 0.0930 | 1.15 | 1 | 06/05/2024 11:36 | WG2297398 |
| Copper | 26.1 | | 0.459 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| Lead | 50.2 | | 0.238 | 0.573 | 1 | 06/05/2024 11:36 | WG2297398 |
| Molybdenum | 0.377 | J | 0.125 | 0.573 | 1 | 06/05/2024 11:36 | WG2297398 |
| Nickel | 46.5 | | 0.151 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| Selenium | U | | 0.876 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| Silver | U | | 0.146 | 1.15 | 1 | 06/05/2024 11:36 | WG2297398 |
| Thallium | U | | 0.452 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| Vanadium | 43.5 | | 0.580 | 2.29 | 1 | 06/05/2024 11:36 | WG2297398 |
| Zinc | 82.2 | | 0.954 | 5.73 | 1 | 06/05/2024 11:36 | WG2297398 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0480 | 0.0658 | 1 | 06/03/2024 17:42 | WG2297589 |
| Acrylonitrile | U | | 0.00475 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| Benzene | U | | 0.000614 | 0.00132 | 1 | 06/03/2024 17:42 | WG2297589 |
| Bromobenzene | U | | 0.00118 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| Bromodichloromethane | U | | 0.000954 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Bromoform | U | | 0.00154 | 0.0329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Bromomethane | U | | 0.00259 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| n-Butylbenzene | U | | 0.00691 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| sec-Butylbenzene | U | | 0.00379 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| tert-Butylbenzene | U | | 0.00257 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| Carbon tetrachloride | U | | 0.00118 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| Chlorobenzene | U | | 0.000276 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Chlorodibromomethane | U | | 0.000805 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Chloroethane | U | | 0.00224 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| Chloroform | U | | 0.00136 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Chloromethane | U | | 0.00572 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00114 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000592 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00513 | 0.0329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.000853 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Dibromomethane | U | | 0.000987 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000559 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.000789 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.000921 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00212 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000646 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.000854 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.000797 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.000966 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00137 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00187 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00106 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000659 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.000996 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00150 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00182 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Di-isopropyl ether | U | | 0.000539 | 0.00132 | 1 | 06/03/2024 17:42 | WG2297589 |
| Ethylbenzene | U | | 0.000970 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.00789 | 0.0329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Isopropylbenzene | U | | 0.000559 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00336 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.0836 | 0.132 | 1 | 06/03/2024 17:42 | WG2297589 |
| Methylene Chloride | 0.0147 | J | 0.00874 | 0.0329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00300 | 0.0329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Methyl tert-butyl ether | U | | 0.000461 | 0.00132 | 1 | 06/03/2024 17:42 | WG2297589 |
| Naphthalene | 0.0167 | | 0.00642 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| n-Propylbenzene | U | | 0.00125 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| Styrene | U | | 0.000301 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00125 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000914 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000992 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Tetrachloroethene | U | | 0.00118 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Toluene | U | | 0.00171 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.00964 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00579 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00121 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.000786 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Trichloroethene | U | | 0.000768 | 0.00132 | 1 | 06/03/2024 17:42 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00109 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00213 | 0.0164 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2,4-Trimethylbenzene | 0.00321 | J | 0.00208 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,2,3-Trimethylbenzene | 0.00418 | J | 0.00208 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00263 | 0.00658 | 1 | 06/03/2024 17:42 | WG2297589 |
| Vinyl chloride | U | | 0.00153 | 0.00329 | 1 | 06/03/2024 17:42 | WG2297589 |
| Xylenes, Total | U | | 0.00116 | 0.00855 | 1 | 06/03/2024 17:42 | WG2297589 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/03/2024 17:42* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/03/2024 17:42* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *94.3* | | | *70.0-130* | | *06/03/2024 17:42* | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00618 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Acenaphthylene | U | | 0.00538 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Anthracene | U | | 0.00680 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Benzidine | U | | 0.0718 | 1.91 | 1 | 06/06/2024 16:51 | WG2298678 |
| Benzo(a)anthracene | 0.0193 | J | 0.00673 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Benzo(b)fluoranthene | 0.0368 | J | 0.00712 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Benzo(k)fluoranthene | 0.00791 | J | 0.00679 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Benzo(g,h,i)perylene | 0.0171 | J | 0.00698 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.0216 | J | 0.00710 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0115 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0126 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0165 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0134 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00671 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0133 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Chrysene | 0.0252 | J | 0.00759 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.0106 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0113 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0116 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0114 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0141 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0109 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0125 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Fluoranthene | 0.0306 | J | 0.00689 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Fluorene | U | | 0.00621 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Hexachlorobenzene | U | | 0.0135 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0128 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0201 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Hexachloroethane | U | | 0.0150 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.0136 | J | 0.0108 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Isophorone | U | | 0.0117 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Naphthalene | 0.0259 | J | 0.00959 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Nitrobenzene | U | | 0.0133 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0566 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0289 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0127 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Phenanthrene | 0.0432 | | 0.00758 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.0119 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0484 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0131 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Diethyl phthalate | U | | 0.0126 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Dimethyl phthalate | U | | 0.0809 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0258 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Pyrene | 0.0407 | | 0.00743 | 0.0382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0119 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0124 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2-Chlorophenol | U | | 0.0126 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0111 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.00997 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0866 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0893 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2-Nitrophenol | U | | 0.0136 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 4-Nitrophenol | U | | 0.0119 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Pentachlorophenol | U | | 0.0103 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| Phenol | U | | 0.0154 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0123 | 0.382 | 1 | 06/06/2024 16:51 | WG2298678 |
| *(S) 2-Fluorophenol* | *60.4* | | | *12.0-120* | | *06/06/2024 16:51* | WG2298678 |
| *(S) Phenol-d5* | *56.8* | | | *10.0-120* | | *06/06/2024 16:51* | WG2298678 |
| *(S) Nitrobenzene-d5* | *46.2* | | | *10.0-122* | | *06/06/2024 16:51* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *54.7* | | | *15.0-120* | | *06/06/2024 16:51* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *56.0* | | | *10.0-127* | | *06/06/2024 16:51* | WG2298678 |
| *(S) p-Terphenyl-d14* | *58.3* | | | *10.0-120* | | *06/06/2024 16:51* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0934 | | 0.0205 | 0.0455 | 1 | 06/01/2024 18:06 | WG2295935 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 2.92 | | 0.619 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| Arsenic | 4.20 | | 0.590 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| Barium | 194 | | 0.0970 | 0.569 | 1 | 06/05/2024 11:37 | WG2297398 |
| Beryllium | 0.335 | | 0.0359 | 0.228 | 1 | 06/05/2024 11:37 | WG2297398 |
| Cadmium | 0.249 | J | 0.0536 | 0.569 | 1 | 06/05/2024 11:37 | WG2297398 |
| Chromium | 50.7 | | 0.151 | 1.14 | 1 | 06/05/2024 11:37 | WG2297398 |
| Cobalt | 12.9 | | 0.0923 | 1.14 | 1 | 06/05/2024 11:37 | WG2297398 |
| Copper | 23.4 | | 0.455 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| Lead | 82.6 | | 0.237 | 0.569 | 1 | 06/05/2024 11:37 | WG2297398 |
| Molybdenum | 0.475 | J | 0.124 | 0.569 | 1 | 06/05/2024 11:37 | WG2297398 |
| Nickel | 56.6 | | 0.150 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| Selenium | U | | 0.870 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| Silver | U | | 0.145 | 1.14 | 1 | 06/05/2024 11:37 | WG2297398 |
| Thallium | U | | 0.449 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| Vanadium | 47.8 | | 0.576 | 2.28 | 1 | 06/05/2024 11:37 | WG2297398 |
| Zinc | 91.2 | | 0.947 | 5.69 | 1 | 06/05/2024 11:37 | WG2297398 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 5.29 | B | 1.07 | 3.22 | 25 | 06/02/2024 18:33 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *88.0* | | | *77.0-120* | | *06/02/2024 18:33* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0470 | 0.0644 | 1 | 06/03/2024 18:01 | WG2297589 |
| Acrylonitrile | U | | 0.00465 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| Benzene | U | | 0.000601 | 0.00129 | 1 | 06/03/2024 18:01 | WG2297589 |
| Bromobenzene | U | | 0.00116 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| Bromodichloromethane | U | | 0.000933 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Bromoform | U | | 0.00151 | 0.0322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Bromomethane | U | | 0.00254 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| n-Butylbenzene | U | | 0.00676 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| sec-Butylbenzene | U | | 0.00371 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| tert-Butylbenzene | U | | 0.00251 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| Carbon tetrachloride | U | | 0.00116 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| Chlorobenzene | U | | 0.000270 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Chlorodibromomethane | U | | 0.000788 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Chloroethane | U | | 0.00219 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| Chloroform | U | | 0.00133 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Chloromethane | U | | 0.00560 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00111 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000579 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00502 | 0.0322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.000834 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Dibromomethane | U | | 0.000965 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000547 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.000772 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.000901 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| Dichlorodifluoromethane | U | | 0.00207 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000632 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.000835 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.000780 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.000945 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00134 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00183 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00104 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000645 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.000974 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00147 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00178 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Di-isopropyl ether | U | | 0.000528 | 0.00129 | 1 | 06/03/2024 18:01 | WG2297589 |
| Ethylbenzene | U | | 0.000949 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.00772 | 0.0322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Isopropylbenzene | U | | 0.000547 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00328 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.0817 | 0.129 | 1 | 06/03/2024 18:01 | WG2297589 |
| Methylene Chloride | 0.0165 | J | 0.00855 | 0.0322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00293 | 0.0322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Methyl tert-butyl ether | U | | 0.000451 | 0.00129 | 1 | 06/03/2024 18:01 | WG2297589 |
| Naphthalene | 0.00922 | J | 0.00628 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| n-Propylbenzene | U | | 0.00122 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| Styrene | U | | 0.000295 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00122 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000895 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000971 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Tetrachloroethene | U | | 0.00115 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Toluene | U | | 0.00167 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.00943 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00566 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00119 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.000768 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Trichloroethene | U | | 0.000752 | 0.00129 | 1 | 06/03/2024 18:01 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00106 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00209 | 0.0161 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2,4-Trimethylbenzene | 0.00237 | J | 0.00203 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,2,3-Trimethylbenzene | 0.00264 | J | 0.00203 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00257 | 0.00644 | 1 | 06/03/2024 18:01 | WG2297589 |
| Vinyl chloride | U | | 0.00149 | 0.00322 | 1 | 06/03/2024 18:01 | WG2297589 |
| Xylenes, Total | 0.00158 | J | 0.00113 | 0.00837 | 1 | 06/03/2024 18:01 | WG2297589 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/03/2024 18:01* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/03/2024 18:01* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *90.6* | | | *70.0-130* | | *06/03/2024 18:01* | WG2297589 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 8.40 | | 0.835 | 4.55 | 1 | 06/05/2024 00:29 | WG2298254 |
| C22-C32 Hydrocarbons | 52.1 | | 1.51 | 4.55 | 1 | 06/05/2024 00:29 | WG2298254 |
| C32-C40 Hydrocarbons | 39.2 | | 1.51 | 4.55 | 1 | 06/05/2024 00:29 | WG2298254 |
| *(S) o-Terphenyl* | *43.7* | | | *18.0-148* | | *06/05/2024 00:29* | WG2298254 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00614 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Acenaphthylene | 0.00627 | J | 0.00534 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Anthracene | U | | 0.00675 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Benzidine | U | | 0.0713 | 1.90 | 1 | 06/06/2024 15:36 | WG2298678 |
| Benzo(a)anthracene | 0.0157 | J | 0.00668 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Benzo(b)fluoranthene | 0.0323 | J | 0.00707 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Benzo(k)fluoranthene | 0.0124 | J | 0.00674 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Benzo(g,h,i)perylene | 0.0195 | J | 0.00693 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Benzo(a)pyrene | 0.0206 | J | 0.00705 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0114 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0125 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0164 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0133 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00666 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0132 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Chrysene | 0.0235 | J | 0.00754 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.0105 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0112 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0115 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0113 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0140 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0109 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0124 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Fluoranthene | 0.0491 | | 0.00684 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Fluorene | U | | 0.00617 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Hexachlorobenzene | U | | 0.0134 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0128 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0199 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Hexachloroethane | U | | 0.0149 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.0197 | J | 0.0107 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Isophorone | U | | 0.0116 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Naphthalene | U | | 0.00952 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Nitrobenzene | U | | 0.0132 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0562 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0287 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0126 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Phenanthrene | 0.0302 | J | 0.00753 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.0118 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0480 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0130 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Diethyl phthalate | U | | 0.0125 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Dimethyl phthalate | U | | 0.0804 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0256 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Pyrene | 0.0451 | | 0.00738 | 0.0379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0118 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0123 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2-Chlorophenol | U | | 0.0125 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0110 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.00991 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0860 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0887 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2-Nitrophenol | U | | 0.0135 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 4-Nitrophenol | U | | 0.0118 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Pentachlorophenol | U | | 0.0102 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| Phenol | U | | 0.0153 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0122 | 0.379 | 1 | 06/06/2024 15:36 | WG2298678 |
| *(S) 2-Fluorophenol* | *62.3* | | | *12.0-120* | | *06/06/2024 15:36* | WG2298678 |
| *(S) Phenol-d5* | *58.9* | | | *10.0-120* | | *06/06/2024 15:36* | WG2298678 |
| *(S) Nitrobenzene-d5* | *48.9* | | | *10.0-122* | | *06/06/2024 15:36* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *56.1* | | | *15.0-120* | | *06/06/2024 15:36* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *57.6* | | | *10.0-127* | | *06/06/2024 15:36* | WG2298678 |
| *(S) p-Terphenyl-d14* | *60.7* | | | *10.0-120* | | *06/06/2024 15:36* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.1 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 3.14 | B J | 1.09 | 3.29 | 25 | 06/02/2024 18:57 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.0* | | | *77.0-120* | | *06/02/2024 18:57* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0481 | 0.0659 | 1 | 06/03/2024 18:21 | WG2297589 |
| Acrylonitrile | U | | 0.00476 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| Benzene | U | | 0.000615 | 0.00132 | 1 | 06/03/2024 18:21 | WG2297589 |
| Bromobenzene | U | | 0.00119 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| Bromodichloromethane | U | | 0.000955 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Bromoform | U | | 0.00154 | 0.0329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Bromomethane | U | | 0.00260 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| n-Butylbenzene | U | | 0.00692 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| sec-Butylbenzene | U | | 0.00379 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| tert-Butylbenzene | U | | 0.00257 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| Carbon tetrachloride | U | | 0.00118 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| Chlorobenzene | U | | 0.000277 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Chlorodibromomethane | U | | 0.000806 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Chloroethane | U | | 0.00224 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| Chloroform | U | | 0.00136 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Chloromethane | U | | 0.00573 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00114 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000593 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00514 | 0.0329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.000854 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Dibromomethane | U | | 0.000988 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000560 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.000790 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.000922 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| Dichlorodifluoromethane | U | | 0.00212 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000647 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.000855 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.000798 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.000967 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00137 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00187 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00107 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000660 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.000997 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00150 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00182 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Di-isopropyl ether | U | | 0.000540 | 0.00132 | 1 | 06/03/2024 18:21 | WG2297589 |
| Ethylbenzene | U | | 0.000971 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.00790 | 0.0329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Isopropylbenzene | U | | 0.000560 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00336 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.0837 | 0.132 | 1 | 06/03/2024 18:21 | WG2297589 |
| Methylene Chloride | 0.0153 | J | 0.00875 | 0.0329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00300 | 0.0329 | 1 | 06/03/2024 18:21 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000461 | 0.00132 | 1 | 06/03/2024 18:21 | WG2297589 |
| Naphthalene | U | | 0.00643 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| n-Propylbenzene | U | | 0.00125 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| Styrene | U | | 0.000302 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00125 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000916 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000993 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Tetrachloroethene | U | | 0.00118 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Toluene | U | | 0.00171 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.00966 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00580 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00122 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.000786 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Trichloroethene | U | | 0.000769 | 0.00132 | 1 | 06/03/2024 18:21 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00109 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00213 | 0.0165 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2,4-Trimethylbenzene | U | | 0.00208 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,2,3-Trimethylbenzene | U | | 0.00208 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00263 | 0.00659 | 1 | 06/03/2024 18:21 | WG2297589 |
| Vinyl chloride | U | | 0.00153 | 0.00329 | 1 | 06/03/2024 18:21 | WG2297589 |
| Xylenes, Total | U | | 0.00116 | 0.00856 | 1 | 06/03/2024 18:21 | WG2297589 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/03/2024 18:21* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/03/2024 18:21* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *93.1* | | | *70.0-130* | | *06/03/2024 18:21* | WG2297589 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 7.21 | J | 4.21 | 23.0 | 5 | 06/05/2024 01:35 | WG2298254 |
| C22-C32 Hydrocarbons | 76.9 | | 7.63 | 23.0 | 5 | 06/05/2024 01:35 | WG2298254 |
| C32-C40 Hydrocarbons | 87.0 | | 7.63 | 23.0 | 5 | 06/05/2024 01:35 | WG2298254 |
| *(S) o-Terphenyl* | *65.0* | | | *18.0-148* | | *06/05/2024 01:35* | WG2298254 |

**Sample Narrative:**

L1740925-13 WG2298254: Cannot run at lower dilution due to viscosity of extract

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 05/31/2024 11:34 | WG2296247 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 1.07 | | 0.0209 | 0.0465 | 1 | 06/01/2024 18:08 | WG2295935 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 8.78 | | 0.633 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| Arsenic | 12.7 | | 0.602 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| Barium | 228 | | 0.0991 | 0.581 | 1 | 06/05/2024 11:39 | WG2297398 |
| Beryllium | 0.0762 | J | 0.0366 | 0.233 | 1 | 06/05/2024 11:39 | WG2297398 |
| Cadmium | 5.40 | | 0.0548 | 0.581 | 1 | 06/05/2024 11:39 | WG2297398 |
| Chromium | 43.5 | | 0.155 | 1.16 | 1 | 06/05/2024 11:39 | WG2297398 |
| Cobalt | 5.57 | | 0.0943 | 1.16 | 1 | 06/05/2024 11:39 | WG2297398 |
| Copper | 209 | | 0.465 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| Lead | 1780 | | 0.242 | 0.581 | 1 | 06/05/2024 11:39 | WG2297398 |
| Molybdenum | 15.5 | | 0.127 | 0.581 | 1 | 06/05/2024 11:39 | WG2297398 |
| Nickel | 25.4 | | 0.153 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| Selenium | U | | 0.888 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| Silver | U | | 0.148 | 1.16 | 1 | 06/05/2024 11:39 | WG2297398 |
| Thallium | U | | 0.458 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| Vanadium | 26.7 | | 0.588 | 2.33 | 1 | 06/05/2024 11:39 | WG2297398 |
| Zinc | 838 | | 0.967 | 5.81 | 1 | 06/05/2024 11:39 | WG2297398 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0137 | 0.0395 | 1 | 06/03/2024 21:01 | WG2297376 |
| PCB 1221 | U | | 0.0137 | 0.0395 | 1 | 06/03/2024 21:01 | WG2297376 |
| PCB 1232 | U | | 0.0137 | 0.0395 | 1 | 06/03/2024 21:01 | WG2297376 |
| PCB 1242 | 1.88 | | 0.0687 | 0.198 | 5 | 06/04/2024 14:31 | WG2297376 |
| PCB 1248 | U | | 0.00858 | 0.0198 | 1 | 06/03/2024 21:01 | WG2297376 |
| PCB 1254 | 1.14 | | 0.0429 | 0.0988 | 5 | 06/04/2024 14:31 | WG2297376 |
| PCB 1260 | U | | 0.00858 | 0.0198 | 1 | 06/03/2024 21:01 | WG2297376 |
| *(S) Decachlorobiphenyl* | *56.2* | | | *10.0-135* | | *06/04/2024 14:31* | WG2297376 |
| *(S) Decachlorobiphenyl* | *84.8* | | | *10.0-135* | | *06/03/2024 21:01* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *57.2* | | | *10.0-139* | | *06/04/2024 14:31* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *81.8* | | | *10.0-139* | | *06/03/2024 21:01* | WG2297376 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 1.26 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Acenaphthylene | U | | 1.09 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Anthracene | U | | 1.38 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Benzidine | U | | 14.5 | 388 | 200 | 06/06/2024 19:45 | WG2298678 |
| Benzo(a)anthracene | U | | 1.36 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Benzo(b)fluoranthene | U | | 1.44 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Benzo(k)fluoranthene | U | | 1.37 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Benzo(g,h,i)perylene | U | | 1.42 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Benzo(a)pyrene | U | | 1.44 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 2.33 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 2.56 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 3.35 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 2.72 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2-Chloronaphthalene | U | | 1.36 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 2.70 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Chrysene | U | | 1.53 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 2.15 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 2.29 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 2.35 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 2.30 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 2.86 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 2.22 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 2.53 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Fluoranthene | U | | 1.40 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Fluorene | U | | 1.26 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Hexachlorobenzene | U | | 2.74 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 2.60 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 4.07 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Hexachloroethane | U | | 3.05 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | U | | 2.19 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Isophorone | U | | 2.37 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Naphthalene | U | | 1.94 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Nitrobenzene | U | | 2.70 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| n-Nitrosodimethylamine | U | | 11.5 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 5.86 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 2.58 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Phenanthrene | U | | 1.53 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| Benzylbutyl phthalate | U | | 2.42 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 9.81 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Di-n-butyl phthalate | U | | 2.65 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Diethyl phthalate | U | | 2.56 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Dimethyl phthalate | U | | 16.4 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Di-n-octyl phthalate | U | | 5.23 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Pyrene | 1.53 | J | 1.51 | 7.74 | 200 | 06/06/2024 19:45 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 2.42 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 2.51 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2-Chlorophenol | U | | 2.56 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2,4-Dichlorophenol | U | | 2.26 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2,4-Dimethylphenol | U | | 2.02 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 17.6 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2,4-Dinitrophenol | U | | 18.1 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2-Nitrophenol | U | | 2.77 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 4-Nitrophenol | U | | 2.42 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Pentachlorophenol | U | | 2.08 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| Phenol | U | | 3.12 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 2.49 | 77.4 | 200 | 06/06/2024 19:45 | WG2298678 |
| *(S) 2-Fluorophenol* | *47.2* | J7 | | *12.0-120* | | *06/06/2024 19:45* | WG2298678 |
| *(S) Phenol-d5* | *61.1* | J7 | | *10.0-120* | | *06/06/2024 19:45* | WG2298678 |
| *(S) Nitrobenzene-d5* | *54.8* | J7 | | *10.0-122* | | *06/06/2024 19:45* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *62.9* | J7 | | *15.0-120* | | *06/06/2024 19:45* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *56.2* | J7 | | *10.0-127* | | *06/06/2024 19:45* | WG2298678 |
| *(S) p-Terphenyl-d14* | *75.7* | J7 | | *10.0-120* | | *06/06/2024 19:45* | WG2298678 |

**Sample Narrative:**

L1740925-14 WG2298678: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 83.0 | | 1 | 05/31/2024 07:03 | WG2296010 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.212 | | 0.0217 | 0.0482 | 1 | 06/01/2024 18:11 | WG2295935 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 3.41 | | 0.656 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| Arsenic | 0.960 | J | 0.624 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| Barium | 181 | | 0.103 | 0.602 | 1 | 06/05/2024 11:41 | WG2297398 |
| Beryllium | 0.285 | | 0.0380 | 0.241 | 1 | 06/05/2024 11:41 | WG2297398 |
| Cadmium | 0.208 | J | 0.0568 | 0.602 | 1 | 06/05/2024 11:41 | WG2297398 |
| Chromium | 51.0 | | 0.160 | 1.20 | 1 | 06/05/2024 11:41 | WG2297398 |
| Cobalt | 13.9 | | 0.0977 | 1.20 | 1 | 06/05/2024 11:41 | WG2297398 |
| Copper | 37.5 | | 0.482 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| Lead | 99.2 | | 0.251 | 0.602 | 1 | 06/05/2024 11:41 | WG2297398 |
| Molybdenum | 0.233 | J | 0.131 | 0.602 | 1 | 06/05/2024 11:41 | WG2297398 |
| Nickel | 49.3 | | 0.159 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| Selenium | U | | 0.921 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| Silver | U | | 0.153 | 1.20 | 1 | 06/05/2024 11:41 | WG2297398 |
| Thallium | U | | 0.475 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| Vanadium | 76.0 | | 0.610 | 2.41 | 1 | 06/05/2024 11:41 | WG2297398 |
| Zinc | 205 | | 1.00 | 6.02 | 1 | 06/05/2024 11:41 | WG2297398 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0526 | 0.0721 | 1 | 06/03/2024 18:39 | WG2297589 |
| Acrylonitrile | U | | 0.00521 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| Benzene | 0.000784 | J | 0.000673 | 0.00144 | 1 | 06/03/2024 18:39 | WG2297589 |
| Bromobenzene | U | | 0.00130 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| Bromodichloromethane | U | | 0.00105 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Bromoform | U | | 0.00169 | 0.0360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Bromomethane | U | | 0.00284 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| n-Butylbenzene | U | | 0.00757 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| sec-Butylbenzene | U | | 0.00415 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| tert-Butylbenzene | U | | 0.00281 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| Carbon tetrachloride | U | | 0.00129 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| Chlorobenzene | U | | 0.000303 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Chlorodibromomethane | U | | 0.000882 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Chloroethane | U | | 0.00245 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| Chloroform | U | | 0.00149 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Chloromethane | U | | 0.00627 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00125 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000649 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00562 | 0.0360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.000934 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Dibromomethane | U | | 0.00108 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000613 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.000865 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.00101 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00232 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000708 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.000936 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.000874 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.00106 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00150 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00205 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00117 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000722 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.00109 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00164 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00199 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Di-isopropyl ether | U | | 0.000591 | 0.00144 | 1 | 06/03/2024 18:39 | WG2297589 |
| Ethylbenzene | U | | 0.00106 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.00865 | 0.0360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Isopropylbenzene | 0.000627 | J | 0.000613 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00368 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.0916 | 0.144 | 1 | 06/03/2024 18:39 | WG2297589 |
| Methylene Chloride | 0.0150 | J | 0.00957 | 0.0360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00329 | 0.0360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Methyl tert-butyl ether | U | | 0.000505 | 0.00144 | 1 | 06/03/2024 18:39 | WG2297589 |
| Naphthalene | 0.0170 | J | 0.00704 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| n-Propylbenzene | 0.00147 | J | 0.00137 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| Styrene | U | | 0.000330 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00137 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00100 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00109 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Tetrachloroethene | U | | 0.00129 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Toluene | 0.00386 | J | 0.00187 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.0106 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00634 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00133 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.000861 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Trichloroethene | U | | 0.000842 | 0.00144 | 1 | 06/03/2024 18:39 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00119 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00234 | 0.0180 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2,4-Trimethylbenzene | 0.0209 | | 0.00228 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,2,3-Trimethylbenzene | 0.00975 | | 0.00228 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| 1,3,5-Trimethylbenzene | 0.00627 | J | 0.00288 | 0.00721 | 1 | 06/03/2024 18:39 | WG2297589 |
| Vinyl chloride | U | | 0.00167 | 0.00360 | 1 | 06/03/2024 18:39 | WG2297589 |
| Xylenes, Total | 0.0105 | | 0.00127 | 0.00937 | 1 | 06/03/2024 18:39 | WG2297589 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/03/2024 18:39* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/03/2024 18:39* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *94.6* | | | *70.0-130* | | *06/03/2024 18:39* | WG2297589 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0142 | 0.0410 | 1 | 06/14/2024 22:01 | WG2304143 |
| PCB 1221 | U | | 0.0142 | 0.0410 | 1 | 06/14/2024 22:01 | WG2304143 |
| PCB 1232 | U | | 0.0142 | 0.0410 | 1 | 06/14/2024 22:01 | WG2304143 |
| PCB 1242 | U | | 0.0142 | 0.0410 | 1 | 06/14/2024 22:01 | WG2304143 |
| PCB 1248 | U | | 0.00889 | 0.0205 | 1 | 06/14/2024 22:01 | WG2304143 |
| PCB 1254 | U | | 0.00889 | 0.0205 | 1 | 06/14/2024 22:01 | WG2304143 |
| PCB 1260 | U | | 0.00889 | 0.0205 | 1 | 06/14/2024 22:01 | WG2304143 |
| *(S) Decachlorobiphenyl* | *92.3* | | | *10.0-135* | | *06/14/2024 22:01* | WG2304143 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *110* | | | *10.0-139* | | *06/14/2024 22:01* | WG2304143 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00649 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Acenaphthylene | U | | 0.00565 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Anthracene | U | | 0.00715 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Benzidine | U | | 0.0754 | 2.01 | 1 | 06/06/2024 13:57 | WG2298678 |
| Benzo(a)anthracene | 0.00795 | J | 0.00707 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Benzo(b)fluoranthene | 0.0151 | J | 0.00748 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Benzo(k)fluoranthene | U | | 0.00713 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Benzo(g,h,i)perylene | 0.00972 | J | 0.00734 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Benzo(a)pyrene | 0.0117 | J | 0.00746 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0120 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0133 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0174 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0141 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00705 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0140 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Chrysene | 0.0113 | J | 0.00798 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.0111 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0119 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0122 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0119 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0148 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0115 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0131 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Fluoranthene | 0.0180 | J | 0.00724 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Fluorene | 0.00742 | J | 0.00653 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Hexachlorobenzene | U | | 0.0142 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0135 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0211 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Hexachloroethane | U | | 0.0158 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.0119 | J | 0.0113 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Isophorone | U | | 0.0123 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Naphthalene | 0.0148 | J | 0.0101 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Nitrobenzene | U | | 0.0140 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0595 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0304 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0134 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Phenanthrene | 0.0235 | J | 0.00796 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.0125 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | 0.0888 | J | 0.0508 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0137 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Diethyl phthalate | U | | 0.0133 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Dimethyl phthalate | U | | 0.0851 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0271 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Pyrene | 0.0206 | J | 0.00781 | 0.0401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0125 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0130 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2-Chlorophenol | U | | 0.0133 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0117 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2,4-Dimethylphenol | 0.0129 | J | 0.0105 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0910 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0939 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0143 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 4-Nitrophenol | U | | 0.0125 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Pentachlorophenol | U | | 0.0108 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| Phenol | U | | 0.0161 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0129 | 0.401 | 1 | 06/06/2024 13:57 | WG2298678 |
| *(S) 2-Fluorophenol* | *42.3* | | | *12.0-120* | | *06/06/2024 13:57* | WG2298678 |
| *(S) Phenol-d5* | *40.9* | | | *10.0-120* | | *06/06/2024 13:57* | WG2298678 |
| *(S) Nitrobenzene-d5* | *34.1* | | | *10.0-122* | | *06/06/2024 13:57* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *45.3* | | | *15.0-120* | | *06/06/2024 13:57* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *59.5* | | | *10.0-127* | | *06/06/2024 13:57* | WG2298678 |
| *(S) p-Terphenyl-d14* | *61.9* | | | *10.0-120* | | *06/06/2024 13:57* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.3 | | 1 | 05/31/2024 07:03 | WG2296010 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.269 | | 0.0216 | 0.0480 | 1 | 05/31/2024 14:27 | WG2295946 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 7.44 | | 0.653 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| Arsenic | 3.56 | | 0.622 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| Barium | 248 | | 0.102 | 0.600 | 1 | 06/05/2024 11:42 | WG2297398 |
| Beryllium | 0.238 | J | 0.0378 | 0.240 | 1 | 06/05/2024 11:42 | WG2297398 |
| Cadmium | 0.547 | J | 0.0566 | 0.600 | 1 | 06/05/2024 11:42 | WG2297398 |
| Chromium | 45.7 | | 0.160 | 1.20 | 1 | 06/05/2024 11:42 | WG2297398 |
| Cobalt | 12.7 | | 0.0974 | 1.20 | 1 | 06/05/2024 11:42 | WG2297398 |
| Copper | 35.9 | | 0.480 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| Lead | 506 | | 0.250 | 0.600 | 1 | 06/05/2024 11:42 | WG2297398 |
| Molybdenum | 0.387 | J | 0.131 | 0.600 | 1 | 06/05/2024 11:42 | WG2297398 |
| Nickel | 44.9 | | 0.158 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| Selenium | U | | 0.917 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| Silver | U | | 0.152 | 1.20 | 1 | 06/05/2024 11:42 | WG2297398 |
| Thallium | U | | 0.473 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| Vanadium | 64.9 | | 0.608 | 2.40 | 1 | 06/05/2024 11:42 | WG2297398 |
| Zinc | 241 | | 0.999 | 6.00 | 1 | 06/05/2024 11:42 | WG2297398 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 3.95 | B | 1.20 | 3.63 | 25 | 06/02/2024 19:20 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.8* | | | *77.0-120* | | *06/02/2024 19:20* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0530 | 0.0725 | 1 | 06/03/2024 18:59 | WG2297589 |
| Acrylonitrile | U | | 0.00524 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| Benzene | 0.00276 | | 0.000678 | 0.00145 | 1 | 06/03/2024 18:59 | WG2297589 |
| Bromobenzene | U | | 0.00131 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| Bromodichloromethane | U | | 0.00105 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Bromoform | U | | 0.00170 | 0.0363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Bromomethane | U | | 0.00286 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| n-Butylbenzene | U | | 0.00762 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| sec-Butylbenzene | U | | 0.00418 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| tert-Butylbenzene | U | | 0.00283 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| Carbon tetrachloride | U | | 0.00130 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| Chlorobenzene | U | | 0.000305 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Chlorodibromomethane | U | | 0.000888 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Chloroethane | U | | 0.00247 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| Chloroform | U | | 0.00149 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Chloromethane | U | | 0.00631 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00125 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000653 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00566 | 0.0363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.000940 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Dibromomethane | U | | 0.00109 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000617 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.000871 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.00102 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| Dichlorodifluoromethane | U | | 0.00234 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000712 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.000942 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.000879 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.00106 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00151 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00206 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00117 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000727 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.00110 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00165 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00200 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Di-isopropyl ether | U | | 0.000595 | 0.00145 | 1 | 06/03/2024 18:59 | WG2297589 |
| Ethylbenzene | U | | 0.00107 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.00871 | 0.0363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Isopropylbenzene | U | | 0.000617 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00370 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.0921 | 0.145 | 1 | 06/03/2024 18:59 | WG2297589 |
| Methylene Chloride | U | | 0.00963 | 0.0363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00331 | 0.0363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Methyl tert-butyl ether | U | | 0.000508 | 0.00145 | 1 | 06/03/2024 18:59 | WG2297589 |
| Naphthalene | U | | 0.00708 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| n-Propylbenzene | U | | 0.00138 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| Styrene | U | | 0.000332 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00138 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00101 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00109 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Tetrachloroethene | U | | 0.00130 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Toluene | U | | 0.00189 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.0106 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00638 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00134 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.000866 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Trichloroethene | U | | 0.000847 | 0.00145 | 1 | 06/03/2024 18:59 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00120 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00235 | 0.0181 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2,4-Trimethylbenzene | U | | 0.00229 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,2,3-Trimethylbenzene | U | | 0.00229 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00290 | 0.00725 | 1 | 06/03/2024 18:59 | WG2297589 |
| Vinyl chloride | U | | 0.00168 | 0.00363 | 1 | 06/03/2024 18:59 | WG2297589 |
| Xylenes, Total | 0.00601 | J | 0.00128 | 0.00943 | 1 | 06/03/2024 18:59 | WG2297589 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/03/2024 18:59* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/03/2024 18:59* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *91.4* | | | *70.0-130* | | *06/03/2024 18:59* | WG2297589 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 46.7 | J | 44.1 | 240 | 50 | 06/05/2024 02:54 | WG2298254 |
| C22-C32 Hydrocarbons | 421 | | 79.8 | 240 | 50 | 06/05/2024 02:54 | WG2298254 |
| C32-C40 Hydrocarbons | 415 | | 79.8 | 240 | 50 | 06/05/2024 02:54 | WG2298254 |
| *(S) o-Terphenyl* | *77.0* | J7 | | *18.0-148* | | *06/05/2024 02:54* | WG2298254 |

**Sample Narrative:**

L1740925-16 WG2298254: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0130 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Acenaphthylene | 0.0155 | J | 0.0113 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Anthracene | 0.0315 | J | 0.0143 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Benzidine | U | | 0.150 | 4.01 | 2 | 06/06/2024 20:12 | WG2299140 |
| Benzo(a)anthracene | 0.102 | | 0.0140 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Benzo(b)fluoranthene | 0.196 | | 0.0149 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Benzo(k)fluoranthene | 0.0570 | J | 0.0142 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Benzo(g,h,i)perylene | 0.0933 | | 0.0146 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Benzo(a)pyrene | 0.119 | | 0.0149 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0240 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0264 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0346 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0281 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.0140 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0279 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Chrysene | 0.144 | | 0.0158 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Dibenz(a,h)anthracene | 0.0241 | J | 0.0222 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0237 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0243 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0238 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0295 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0229 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0262 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Fluoranthene | 0.244 | | 0.0144 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Fluorene | 0.0192 | J | 0.0130 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Hexachlorobenzene | U | | 0.0283 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0269 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Hexachlorocyclopentadiene | U | | 0.0420 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Hexachloroethane | U | | 0.0315 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 0.0878 | | 0.0226 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Isophorone | U | | 0.0245 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Naphthalene | 0.0211 | J | 0.0201 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Nitrobenzene | U | | 0.0279 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.119 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| n-Nitrosodiphenylamine | U | | 0.0605 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0267 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Phenanthrene | 0.162 | | 0.0158 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0250 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.101 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Di-n-butyl phthalate | 0.0538 | J | 0.0274 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Diethyl phthalate | U | | 0.0264 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Dimethyl phthalate | U | | 0.169 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0540 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Pyrene | 0.229 | | 0.0156 | 0.0800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0250 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.0259 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2-Chlorophenol | U | | 0.0264 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0233 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0209 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.181 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.187 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2-Nitrophenol | U | | 0.0286 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 4-Nitrophenol | U | | 0.0250 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Pentachlorophenol | U | | 0.0215 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| Phenol | U | | 0.0322 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0257 | 0.800 | 2 | 06/06/2024 20:12 | WG2299140 |
| *(S) 2-Fluorophenol* | *71.2* | | | *12.0-120* | | *06/06/2024 20:12* | WG2299140 |
| *(S) Phenol-d5* | *62.9* | | | *10.0-120* | | *06/06/2024 20:12* | WG2299140 |
| *(S) Nitrobenzene-d5* | *62.1* | | | *10.0-122* | | *06/06/2024 20:12* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *62.7* | | | *15.0-120* | | *06/06/2024 20:12* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *69.2* | | | *10.0-127* | | *06/06/2024 20:12* | WG2299140 |
| *(S) p-Terphenyl-d14* | *65.7* | | | *10.0-120* | | *06/06/2024 20:12* | WG2299140 |

**Sample Narrative:**

L1740925-16 WG2299140: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 83.7 | | 1 | 06/07/2024 12:45 | WG2300491 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0889 | | 0.0215 | 0.0478 | 1 | 06/09/2024 17:34 | WG2300577 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 6.99 | | 0.650 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| Arsenic | 6.39 | B | 0.619 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| Barium | 231 | | 0.102 | 0.598 | 1 | 06/13/2024 18:24 | WG2300670 |
| Beryllium | 0.605 | | 0.0377 | 0.239 | 1 | 06/13/2024 18:24 | WG2300670 |
| Cadmium | 0.130 | J | 0.0563 | 0.598 | 1 | 06/13/2024 18:24 | WG2300670 |
| Chromium | 65.2 | | 0.159 | 1.20 | 1 | 06/13/2024 18:24 | WG2300670 |
| Cobalt | 10.2 | | 0.0969 | 1.20 | 1 | 06/13/2024 18:24 | WG2300670 |
| Copper | 26.2 | | 0.478 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| Lead | 26.0 | | 0.249 | 0.598 | 1 | 06/13/2024 18:24 | WG2300670 |
| Molybdenum | 0.270 | J | 0.130 | 0.598 | 1 | 06/13/2024 18:24 | WG2300670 |
| Nickel | 65.5 | | 0.158 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| Selenium | U | | 0.913 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| Silver | U | | 0.152 | 1.20 | 1 | 06/13/2024 18:24 | WG2300670 |
| Thallium | U | | 0.471 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| Vanadium | 69.7 | | 0.605 | 2.39 | 1 | 06/13/2024 18:24 | WG2300670 |
| Zinc | 70.2 | | 0.995 | 5.98 | 1 | 06/13/2024 18:24 | WG2300670 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.7 | | 1 | 05/31/2024 07:03 | WG2296010 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.64 | B J | 0.966 | 2.91 | 25 | 06/02/2024 19:43 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.0* | | | *77.0-120* | | *06/02/2024 19:43* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0425 | 0.0582 | 1 | 06/03/2024 19:18 | WG2297589 |
| Acrylonitrile | U | | 0.00420 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| Benzene | U | | 0.000544 | 0.00116 | 1 | 06/03/2024 19:18 | WG2297589 |
| Bromobenzene | U | | 0.00105 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| Bromodichloromethane | U | | 0.000844 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Bromoform | U | | 0.00136 | 0.0291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Bromomethane | U | | 0.00229 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| n-Butylbenzene | U | | 0.00611 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| sec-Butylbenzene | U | | 0.00335 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| tert-Butylbenzene | U | | 0.00227 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| Carbon tetrachloride | U | | 0.00105 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| Chlorobenzene | U | | 0.000245 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Chlorodibromomethane | U | | 0.000713 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Chloroethane | U | | 0.00198 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| Chloroform | U | | 0.00120 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Chloromethane | U | | 0.00506 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00101 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000524 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00454 | 0.0291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.000754 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Dibromomethane | U | | 0.000873 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000495 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.000699 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.000815 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| Dichlorodifluoromethane | U | | 0.00187 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000572 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.000756 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.000706 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.000855 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00121 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00165 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.000942 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000583 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.000881 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00133 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00161 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Di-isopropyl ether | U | | 0.000477 | 0.00116 | 1 | 06/03/2024 19:18 | WG2297589 |
| Ethylbenzene | U | | 0.000858 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.00699 | 0.0291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Isopropylbenzene | U | | 0.000495 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00297 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.0739 | 0.116 | 1 | 06/03/2024 19:18 | WG2297589 |
| Methylene Chloride | U | | 0.00773 | 0.0291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00265 | 0.0291 | 1 | 06/03/2024 19:18 | WG2297589 |

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

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000408 | 0.00116 | 1 | 06/03/2024 19:18 | WG2297589 |
| Naphthalene | U | | 0.00568 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| n-Propylbenzene | U | | 0.00111 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| Styrene | U | | 0.000267 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00110 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000809 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000878 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Tetrachloroethene | U | | 0.00104 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Toluene | U | | 0.00151 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.00853 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00512 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00107 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.000695 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Trichloroethene | U | | 0.000680 | 0.00116 | 1 | 06/03/2024 19:18 | WG2297589 |
| Trichlorofluoromethane | U | | 0.000963 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00189 | 0.0146 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2,4-Trimethylbenzene | U | | 0.00184 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,2,3-Trimethylbenzene | U | | 0.00184 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00233 | 0.00582 | 1 | 06/03/2024 19:18 | WG2297589 |
| Vinyl chloride | U | | 0.00135 | 0.00291 | 1 | 06/03/2024 19:18 | WG2297589 |
| Xylenes, Total | U | | 0.00102 | 0.00757 | 1 | 06/03/2024 19:18 | WG2297589 |
| *(S) Toluene-d8* | *99.6* | | | *75.0-131* | | *06/03/2024 19:18* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/03/2024 19:18* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *93.7* | | | *70.0-130* | | *06/03/2024 19:18* | WG2297589 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 16.7 | J | 7.74 | 42.2 | 10 | 06/05/2024 02:01 | WG2298254 |
| C22-C32 Hydrocarbons | 69.0 | | 14.0 | 42.2 | 10 | 06/05/2024 02:01 | WG2298254 |
| C32-C40 Hydrocarbons | 59.6 | | 14.0 | 42.2 | 10 | 06/05/2024 02:01 | WG2298254 |
| *(S) o-Terphenyl* | *69.1* | | | *18.0-148* | | *06/05/2024 02:01* | WG2298254 |

**Sample Narrative:**

L1740925-18 WG2298254: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | J3 | 11.3 | 50.0 | 1 | 06/03/2024 19:42 | WG2297610 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 19:42 | WG2297610 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 19:42 | WG2297610 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Chloroethane | U | J3 | 0.192 | 5.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 19:42 | WG2297610 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 19:42 | WG2297610 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 19:42 | WG2297610 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |

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

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 19:42 | WG2297610 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *06/03/2024 19:42* | WG2297610 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *77.0-126* | | *06/03/2024 19:42* | WG2297610 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *06/03/2024 19:42* | WG2297610 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 85.4 | | 1 | 05/31/2024 07:03 | WG2296010 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0838 | | 0.0211 | 0.0468 | 1 | 05/31/2024 14:31 | WG2295946 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 4.50 | | 0.637 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| Arsenic | 3.78 | | 0.606 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| Barium | 115 | | 0.0997 | 0.585 | 1 | 06/05/2024 11:47 | WG2297398 |
| Beryllium | 0.293 | | 0.0369 | 0.234 | 1 | 06/05/2024 11:47 | WG2297398 |
| Cadmium | 0.128 | J | 0.0551 | 0.585 | 1 | 06/05/2024 11:47 | WG2297398 |
| Chromium | 45.5 | | 0.156 | 1.17 | 1 | 06/05/2024 11:47 | WG2297398 |
| Cobalt | 11.6 | | 0.0949 | 1.17 | 1 | 06/05/2024 11:47 | WG2297398 |
| Copper | 51.2 | | 0.468 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| Lead | 83.9 | | 0.243 | 0.585 | 1 | 06/05/2024 11:47 | WG2297398 |
| Molybdenum | 1.08 | | 0.128 | 0.585 | 1 | 06/05/2024 11:47 | WG2297398 |
| Nickel | 37.7 | | 0.154 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| Selenium | U | | 0.894 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| Silver | U | | 0.149 | 1.17 | 1 | 06/05/2024 11:47 | WG2297398 |
| Thallium | U | | 0.461 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| Vanadium | 66.8 | | 0.592 | 2.34 | 1 | 06/05/2024 11:47 | WG2297398 |
| Zinc | 74.7 | | 0.974 | 5.85 | 1 | 06/05/2024 11:47 | WG2297398 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0138 | 0.0398 | 1 | 06/03/2024 21:11 | WG2297376 |
| PCB 1221 | U | | 0.0138 | 0.0398 | 1 | 06/03/2024 21:11 | WG2297376 |
| PCB 1232 | U | | 0.0138 | 0.0398 | 1 | 06/03/2024 21:11 | WG2297376 |
| PCB 1242 | U | | 0.0138 | 0.0398 | 1 | 06/03/2024 21:11 | WG2297376 |
| PCB 1248 | U | | 0.00864 | 0.0199 | 1 | 06/03/2024 21:11 | WG2297376 |
| PCB 1254 | U | | 0.00864 | 0.0199 | 1 | 06/03/2024 21:11 | WG2297376 |
| PCB 1260 | U | | 0.00864 | 0.0199 | 1 | 06/03/2024 21:11 | WG2297376 |
| *(S) Decachlorobiphenyl* | *72.3* | | | *10.0-135* | | *06/03/2024 21:11* | WG2297376 |
| *(S) Tetrachloro-m-xylene* | *65.8* | | | *10.0-139* | | *06/03/2024 21:11* | WG2297376 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0126 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Acenaphthylene | 0.0122 | J | 0.0110 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Anthracene | U | | 0.0139 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Benzidine | U | | 0.146 | 3.91 | 2 | 06/06/2024 20:32 | WG2299140 |
| Benzo(a)anthracene | 0.118 | | 0.0137 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Benzo(b)fluoranthene | 0.249 | | 0.0145 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Benzo(k)fluoranthene | 0.0751 | J | 0.0138 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Benzo(g,h,i)perylene | 0.151 | | 0.0143 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Benzo(a)pyrene | 0.198 | | 0.0145 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0234 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0257 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0337 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0274 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.0137 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0272 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Chrysene | 0.166 | | 0.0154 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Dibenz(a,h)anthracene | 0.0445 | J | 0.0217 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0231 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0236 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0232 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0288 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0224 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0255 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Fluoranthene | 0.133 | | 0.0140 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Fluorene | U | | 0.0126 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Hexachlorobenzene | U | | 0.0276 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0262 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Hexachlorocyclopentadiene | U | | 0.0410 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Hexachloroethane | U | | 0.0307 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 0.153 | | 0.0220 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Isophorone | U | | 0.0239 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Naphthalene | U | | 0.0195 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Nitrobenzene | U | | 0.0272 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.116 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| n-Nitrosodiphenylamine | U | | 0.0590 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0260 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Phenanthrene | 0.0495 | J | 0.0154 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0243 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0988 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Di-n-butyl phthalate | U | | 0.0267 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Diethyl phthalate | U | | 0.0257 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Dimethyl phthalate | U | | 0.165 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0527 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Pyrene | 0.138 | | 0.0152 | 0.0779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0243 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 4-Chloro-3-methylphenol | U | | 0.0253 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2-Chlorophenol | U | | 0.0257 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0227 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0204 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.177 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.183 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2-Nitrophenol | U | | 0.0279 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 4-Nitrophenol | U | | 0.0243 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Pentachlorophenol | U | | 0.0210 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| Phenol | U | | 0.0314 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0250 | 0.779 | 2 | 06/06/2024 20:32 | WG2299140 |
| *(S) 2-Fluorophenol* | *69.0* | | | *12.0-120* | | *06/06/2024 20:32* | WG2299140 |
| *(S) Phenol-d5* | *63.4* | | | *10.0-120* | | *06/06/2024 20:32* | WG2299140 |
| *(S) Nitrobenzene-d5* | *65.6* | | | *10.0-122* | | *06/06/2024 20:32* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *61.6* | | | *15.0-120* | | *06/06/2024 20:32* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *65.6* | | | *10.0-127* | | *06/06/2024 20:32* | WG2299140 |
| *(S) p-Terphenyl-d14* | *61.6* | | | *10.0-120* | | *06/06/2024 20:32* | WG2299140 |

**Sample Narrative:**

L1740925-20 WG2299140: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.4 | | 1 | 05/31/2024 07:03 | WG2296010 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.127 | | 0.0239 | 0.0531 | 1 | 05/31/2024 14:33 | WG2295946 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 4.12 | | 0.722 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| Arsenic | 6.51 | | 0.687 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| Barium | 178 | | 0.113 | 0.663 | 1 | 06/05/2024 11:49 | WG2297398 |
| Beryllium | 0.292 | | 0.0418 | 0.265 | 1 | 06/05/2024 11:49 | WG2297398 |
| Cadmium | 2.10 | | 0.0625 | 0.663 | 1 | 06/05/2024 11:49 | WG2297398 |
| Chromium | 59.0 | | 0.176 | 1.33 | 1 | 06/05/2024 11:49 | WG2297398 |
| Cobalt | 19.0 | | 0.108 | 1.33 | 1 | 06/05/2024 11:49 | WG2297398 |
| Copper | 81.4 | | 0.531 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| Lead | 219 | | 0.276 | 0.663 | 1 | 06/05/2024 11:49 | WG2297398 |
| Molybdenum | 0.622 | J | 0.145 | 0.663 | 1 | 06/05/2024 11:49 | WG2297398 |
| Nickel | 85.9 | | 0.175 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| Selenium | U | | 1.01 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| Silver | U | | 0.168 | 1.33 | 1 | 06/05/2024 11:49 | WG2297398 |
| Thallium | U | | 0.523 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| Vanadium | 66.5 | | 0.671 | 2.65 | 1 | 06/05/2024 11:49 | WG2297398 |
| Zinc | 1400 | | 1.10 | 6.63 | 1 | 06/05/2024 11:49 | WG2297398 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0632 | 0.0865 | 1 | 06/03/2024 19:37 | WG2297589 |
| Acrylonitrile | U | | 0.00625 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| Benzene | U | | 0.000808 | 0.00173 | 1 | 06/03/2024 19:37 | WG2297589 |
| Bromobenzene | U | | 0.00156 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| Bromodichloromethane | U | | 0.00125 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Bromoform | U | | 0.00202 | 0.0433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Bromomethane | U | | 0.00341 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| n-Butylbenzene | U | | 0.00908 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| sec-Butylbenzene | U | | 0.00498 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| tert-Butylbenzene | U | | 0.00337 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| Carbon tetrachloride | U | | 0.00155 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| Chlorobenzene | U | | 0.000363 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Chlorodibromomethane | U | | 0.00106 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Chloroethane | U | | 0.00294 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| Chloroform | U | | 0.00178 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Chloromethane | U | | 0.00753 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00150 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000779 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00675 | 0.0433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.00112 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Dibromomethane | U | | 0.00130 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000735 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.00104 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.00121 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00279 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000850 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.00112 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.00105 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.00127 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00180 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00246 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00140 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000867 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.00131 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00197 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00239 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Di-isopropyl ether | U | | 0.000709 | 0.00173 | 1 | 06/03/2024 19:37 | WG2297589 |
| Ethylbenzene | U | | 0.00128 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.0104 | 0.0433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Isopropylbenzene | U | | 0.000735 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00441 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.110 | 0.173 | 1 | 06/03/2024 19:37 | WG2297589 |
| Methylene Chloride | U | | 0.0115 | 0.0433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00395 | 0.0433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Methyl tert-butyl ether | U | | 0.000606 | 0.00173 | 1 | 06/03/2024 19:37 | WG2297589 |
| Naphthalene | U | | 0.00844 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| n-Propylbenzene | U | | 0.00164 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| Styrene | U | | 0.000396 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00164 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00120 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00130 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Tetrachloroethene | 0.0715 | | 0.00155 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Toluene | U | | 0.00225 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.0127 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00761 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00160 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.00103 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Trichloroethene | U | | 0.00101 | 0.00173 | 1 | 06/03/2024 19:37 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00143 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00280 | 0.0216 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2,4-Trimethylbenzene | U | | 0.00273 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,2,3-Trimethylbenzene | U | | 0.00273 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00346 | 0.00865 | 1 | 06/03/2024 19:37 | WG2297589 |
| Vinyl chloride | U | | 0.00201 | 0.00433 | 1 | 06/03/2024 19:37 | WG2297589 |
| Xylenes, Total | U | | 0.00152 | 0.0112 | 1 | 06/03/2024 19:37 | WG2297589 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/03/2024 19:37* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/03/2024 19:37* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *93.0* | | | *70.0-130* | | *06/03/2024 19:37* | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0143 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Acenaphthylene | U | | 0.0124 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Anthracene | U | | 0.0158 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Benzidine | U | | 0.166 | 4.43 | 2 | 06/06/2024 20:53 | WG2299140 |
| Benzo(a)anthracene | 0.111 | | 0.0155 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Benzo(b)fluoranthene | 0.229 | | 0.0164 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Benzo(k)fluoranthene | 0.0617 | J | 0.0157 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Benzo(g,h,i)perylene | 0.110 | | 0.0162 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.137 | | 0.0164 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0265 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0292 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0382 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0310 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.0155 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0308 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Chrysene | 0.195 | | 0.0175 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Dibenz(a,h)anthracene | 0.0333 | J | 0.0245 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0261 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0268 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0263 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0326 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0253 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0289 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Fluoranthene | 0.131 | | 0.0159 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Fluorene | U | | 0.0143 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Hexachlorobenzene | U | | 0.0313 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0297 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Hexachlorocyclopentadiene | U | | 0.0464 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Hexachloroethane | U | | 0.0347 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 0.107 | | 0.0249 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Isophorone | U | | 0.0271 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Naphthalene | U | | 0.0221 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Nitrobenzene | U | | 0.0308 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.131 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| n-Nitrosodiphenylamine | U | | 0.0668 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0294 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Phenanthrene | 0.0452 | J | 0.0175 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0276 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.112 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Di-n-butyl phthalate | U | | 0.0302 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Diethyl phthalate | U | | 0.0292 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Dimethyl phthalate | U | | 0.187 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0597 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Pyrene | 0.146 | | 0.0172 | 0.0883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0276 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 4-Chloro-3-methylphenol | U | | 0.0286 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2-Chlorophenol | U | | 0.0292 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0257 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0231 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.200 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.207 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2-Nitrophenol | U | | 0.0316 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 4-Nitrophenol | U | | 0.0276 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Pentachlorophenol | U | | 0.0237 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| Phenol | U | | 0.0355 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0284 | 0.883 | 2 | 06/06/2024 20:53 | WG2299140 |
| *(S) 2-Fluorophenol* | *68.7* | | | *12.0-120* | | *06/06/2024 20:53* | WG2299140 |
| *(S) Phenol-d5* | *63.4* | | | *10.0-120* | | *06/06/2024 20:53* | WG2299140 |
| *(S) Nitrobenzene-d5* | *59.3* | | | *10.0-122* | | *06/06/2024 20:53* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *63.0* | | | *15.0-120* | | *06/06/2024 20:53* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *64.6* | | | *10.0-127* | | *06/06/2024 20:53* | WG2299140 |
| *(S) p-Terphenyl-d14* | *62.3* | | | *10.0-120* | | *06/06/2024 20:53* | WG2299140 |

**Sample Narrative:**

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1740925-21 WG2299140: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 74.9 | | 1 | 05/31/2024 07:03 | WG2296010 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.143 | | 0.0240 | 0.0534 | 1 | 05/31/2024 14:40 | WG2295946 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 11.4 | | 0.726 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| Arsenic | 5.00 | | 0.692 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| Barium | 177 | | 0.114 | 0.668 | 1 | 06/05/2024 11:51 | WG2297398 |
| Beryllium | 0.308 | | 0.0421 | 0.267 | 1 | 06/05/2024 11:51 | WG2297398 |
| Cadmium | 10.3 | | 0.0629 | 0.668 | 1 | 06/05/2024 11:51 | WG2297398 |
| Chromium | 93.6 | | 0.178 | 1.34 | 1 | 06/05/2024 11:51 | WG2297398 |
| Cobalt | 17.5 | | 0.108 | 1.34 | 1 | 06/05/2024 11:51 | WG2297398 |
| Copper | 256 | | 0.534 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| Lead | 194 | | 0.278 | 0.668 | 1 | 06/05/2024 11:51 | WG2297398 |
| Molybdenum | 0.680 | | 0.146 | 0.668 | 1 | 06/05/2024 11:51 | WG2297398 |
| Nickel | 88.2 | | 0.176 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| Selenium | U | | 1.02 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| Silver | U | | 0.170 | 1.34 | 1 | 06/05/2024 11:51 | WG2297398 |
| Thallium | U | | 0.526 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| Vanadium | 96.9 | | 0.676 | 2.67 | 1 | 06/05/2024 11:51 | WG2297398 |
| Zinc | 1180 | | 1.11 | 6.68 | 1 | 06/05/2024 11:51 | WG2297398 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 3.76 | B J | 1.43 | 4.32 | 25 | 06/02/2024 20:07 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.1* | | | *77.0-120* | | *06/02/2024 20:07* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0630 | 0.0863 | 1 | 06/03/2024 19:56 | WG2297589 |
| Acrylonitrile | U | | 0.00623 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| Benzene | U | | 0.000806 | 0.00173 | 1 | 06/03/2024 19:56 | WG2297589 |
| Bromobenzene | U | | 0.00155 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| Bromodichloromethane | U | | 0.00125 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Bromoform | U | | 0.00202 | 0.0432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Bromomethane | U | | 0.00340 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| n-Butylbenzene | U | | 0.00906 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| sec-Butylbenzene | U | | 0.00497 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| tert-Butylbenzene | U | | 0.00337 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| Carbon tetrachloride | U | | 0.00155 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| Chlorobenzene | U | | 0.000362 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Chlorodibromomethane | U | | 0.00106 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Chloroethane | U | | 0.00293 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| Chloroform | U | | 0.00178 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Chloromethane | U | | 0.00751 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00149 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000777 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00673 | 0.0432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.00112 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Dibromomethane | U | | 0.00129 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000734 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.00104 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.00121 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| Dichlorodifluoromethane | U | | 0.00278 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000848 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.00112 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.00105 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| cis-1,2-Dichloroethene | U | | 0.00127 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00180 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00245 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00140 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000865 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.00131 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00197 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00238 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Di-isopropyl ether | U | | 0.000708 | 0.00173 | 1 | 06/03/2024 19:56 | WG2297589 |
| Ethylbenzene | U | | 0.00127 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.0104 | 0.0432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Isopropylbenzene | U | | 0.000734 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00440 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.110 | 0.173 | 1 | 06/03/2024 19:56 | WG2297589 |
| Methylene Chloride | U | | 0.0115 | 0.0432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00394 | 0.0432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Methyl tert-butyl ether | U | | 0.000604 | 0.00173 | 1 | 06/03/2024 19:56 | WG2297589 |
| Naphthalene | U | | 0.00842 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| n-Propylbenzene | U | | 0.00164 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| Styrene | U | | 0.000395 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00164 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00120 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00130 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Tetrachloroethene | 0.0288 | | 0.00155 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Toluene | U | | 0.00224 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.0127 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00760 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00159 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.00103 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Trichloroethene | 0.00939 | | 0.00101 | 0.00173 | 1 | 06/03/2024 19:56 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00143 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00280 | 0.0216 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2,4-Trimethylbenzene | U | | 0.00273 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,2,3-Trimethylbenzene | U | | 0.00273 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00345 | 0.00863 | 1 | 06/03/2024 19:56 | WG2297589 |
| Vinyl chloride | U | | 0.00200 | 0.00432 | 1 | 06/03/2024 19:56 | WG2297589 |
| Xylenes, Total | U | | 0.00152 | 0.0112 | 1 | 06/03/2024 19:56 | WG2297589 |
| *(S) Toluene-d8* | *99.6* | | | *75.0-131* | | *06/03/2024 19:56* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/03/2024 19:56* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *90.1* | | | *70.0-130* | | *06/03/2024 19:56* | WG2297589 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 9.79 | 53.4 | 10 | 06/05/2024 02:28 | WG2298254 |
| C22-C32 Hydrocarbons | 55.7 | | 17.8 | 53.4 | 10 | 06/05/2024 02:28 | WG2298254 |
| C32-C40 Hydrocarbons | 84.4 | | 17.8 | 53.4 | 10 | 06/05/2024 02:28 | WG2298254 |
| *(S) o-Terphenyl* | *29.1* | | | *18.0-148* | | *06/05/2024 02:28* | WG2298254 |

Sample Narrative:

L1740925-22 WG2298254: Cannot run at lower dilution due to viscosity of extract

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0144 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Acenaphthylene | 0.0194 | J | 0.0125 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Anthracene | 0.0219 | J | 0.0159 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Benzidine | U | J3 J6 | 0.167 | 4.46 | 2 | 06/06/2024 21:13 | WG2299140 |
| Benzo(a)anthracene | 0.168 | | 0.0156 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Benzo(b)fluoranthene | 0.304 | | 0.0166 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Benzo(k)fluoranthene | 0.0940 | | 0.0158 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Benzo(g,h,i)perylene | 0.158 | | 0.0163 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Benzo(a)pyrene | 0.211 | | 0.0166 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0267 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0294 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0385 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0312 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.0156 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0310 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Chrysene | 0.260 | | 0.0176 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Dibenz(a,h)anthracene | 0.0447 | J | 0.0247 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0263 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0270 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0264 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0329 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0255 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0291 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Fluoranthene | 0.219 | | 0.0160 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Fluorene | U | | 0.0144 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Hexachlorobenzene | U | | 0.0315 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0299 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Hexachlorocyclopentadiene | U | J6 | 0.0467 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Hexachloroethane | U | | 0.0350 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 0.159 | | 0.0251 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Isophorone | U | | 0.0272 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Naphthalene | U | | 0.0223 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Nitrobenzene | U | | 0.0310 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.132 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| n-Nitrosodiphenylamine | U | | 0.0673 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0296 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Phenanthrene | 0.0714 | J | 0.0176 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0278 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.113 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Di-n-butyl phthalate | U | | 0.0304 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Diethyl phthalate | U | | 0.0294 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Dimethyl phthalate | U | | 0.188 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0601 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Pyrene | 0.235 | | 0.0174 | 0.0889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0278 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.0288 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2-Chlorophenol | U | | 0.0294 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0259 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0232 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.202 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.208 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2-Nitrophenol | U | | 0.0318 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 4-Nitrophenol | U | | 0.0278 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Pentachlorophenol | U | | 0.0239 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| Phenol | U | | 0.0358 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0286 | 0.889 | 2 | 06/06/2024 21:13 | WG2299140 |
| *(S) 2-Fluorophenol* | *71.3* | | | *12.0-120* | | *06/06/2024 21:13* | WG2299140 |
| *(S) Phenol-d5* | *62.8* | | | *10.0-120* | | *06/06/2024 21:13* | WG2299140 |
| *(S) Nitrobenzene-d5* | *62.7* | | | *10.0-122* | | *06/06/2024 21:13* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *65.1* | | | *15.0-120* | | *06/06/2024 21:13* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *64.5* | | | *10.0-127* | | *06/06/2024 21:13* | WG2299140 |
| *(S) p-Terphenyl-d14* | *62.0* | | | *10.0-120* | | *06/06/2024 21:13* | WG2299140 |

**Sample Narrative:**

L1740925-22 WG2299140: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 73.1 | | 1 | 06/26/2024 13:44 | WG2311827 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Lead | 46.8 | | 0.284 | 0.684 | 1 | 06/27/2024 20:17 | WG2313442 |
| Nickel | 55.1 | | 0.181 | 2.74 | 1 | 06/27/2024 20:17 | WG2313442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.6 | | 1 | 05/31/2024 07:03 | WG2296010 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.77 | B J | 1.43 | 4.30 | 25 | 06/02/2024 20:30 | WG2297113 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.2* | | | *77.0-120* | | *06/02/2024 20:30* | WG2297113 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0628 | 0.0861 | 1 | 06/03/2024 20:15 | WG2297589 |
| Acrylonitrile | U | | 0.00621 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| Benzene | U | | 0.000804 | 0.00172 | 1 | 06/03/2024 20:15 | WG2297589 |
| Bromobenzene | U | | 0.00155 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| Bromodichloromethane | U | | 0.00125 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Bromoform | U | | 0.00201 | 0.0430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Bromomethane | U | | 0.00339 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| n-Butylbenzene | U | | 0.00904 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| sec-Butylbenzene | U | | 0.00496 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| tert-Butylbenzene | U | | 0.00336 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| Carbon tetrachloride | U | | 0.00155 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| Chlorobenzene | U | | 0.000361 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Chlorodibromomethane | U | | 0.00105 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Chloroethane | U | | 0.00293 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| Chloroform | U | | 0.00177 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Chloromethane | U | | 0.00749 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| 2-Chlorotoluene | U | | 0.00149 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 4-Chlorotoluene | U | | 0.000775 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00671 | 0.0430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2-Dibromoethane | U | | 0.00112 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Dibromomethane | U | | 0.00129 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2-Dichlorobenzene | U | | 0.000731 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,3-Dichlorobenzene | U | | 0.00103 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,4-Dichlorobenzene | U | | 0.00120 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| Dichlorodifluoromethane | U | | 0.00277 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,1-Dichloroethane | U | | 0.000845 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2-Dichloroethane | U | | 0.00112 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,1-Dichloroethene | U | | 0.00104 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| cis-1,2-Dichloroethene | 0.00282 | J | 0.00126 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| trans-1,2-Dichloroethene | U | | 0.00179 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2-Dichloropropane | U | | 0.00244 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,1-Dichloropropene | U | | 0.00139 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,3-Dichloropropane | U | | 0.000862 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| cis-1,3-Dichloropropene | U | | 0.00130 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| trans-1,3-Dichloropropene | U | | 0.00196 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 2,2-Dichloropropane | U | | 0.00238 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Di-isopropyl ether | U | | 0.000706 | 0.00172 | 1 | 06/03/2024 20:15 | WG2297589 |
| Ethylbenzene | U | | 0.00127 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Hexachloro-1,3-butadiene | U | | 0.0103 | 0.0430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Isopropylbenzene | U | | 0.000731 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| p-Isopropyltoluene | U | | 0.00439 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 2-Butanone (MEK) | U | | 0.109 | 0.172 | 1 | 06/03/2024 20:15 | WG2297589 |
| Methylene Chloride | U | | 0.0114 | 0.0430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00392 | 0.0430 | 1 | 06/03/2024 20:15 | WG2297589 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000602 | 0.00172 | 1 | 06/03/2024 20:15 | WG2297589 |
| Naphthalene | U | | 0.00840 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| n-Propylbenzene | U | | 0.00164 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| Styrene | U | | 0.000394 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00163 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00120 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00130 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Tetrachloroethene | U | | 0.00154 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Toluene | U | | 0.00224 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2,3-Trichlorobenzene | U | | 0.0126 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2,4-Trichlorobenzene | U | | 0.00757 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,1,1-Trichloroethane | U | | 0.00159 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,1,2-Trichloroethane | U | | 0.00103 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Trichloroethene | U | | 0.00101 | 0.00172 | 1 | 06/03/2024 20:15 | WG2297589 |
| Trichlorofluoromethane | U | | 0.00142 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2,3-Trichloropropane | U | | 0.00279 | 0.0215 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2,4-Trimethylbenzene | U | | 0.00272 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,2,3-Trimethylbenzene | U | | 0.00272 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| 1,3,5-Trimethylbenzene | U | | 0.00344 | 0.00861 | 1 | 06/03/2024 20:15 | WG2297589 |
| Vinyl chloride | U | | 0.00200 | 0.00430 | 1 | 06/03/2024 20:15 | WG2297589 |
| Xylenes, Total | U | | 0.00151 | 0.0112 | 1 | 06/03/2024 20:15 | WG2297589 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/03/2024 20:15* | WG2297589 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/03/2024 20:15* | WG2297589 |
| *(S) 1,2-Dichloroethane-d4* | *91.8* | | | *70.0-130* | | *06/03/2024 20:15* | WG2297589 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.05 | J | 0.970 | 5.29 | 1 | 06/04/2024 23:49 | WG2298254 |
| C22-C32 Hydrocarbons | U | | 1.76 | 5.29 | 1 | 06/04/2024 23:49 | WG2298254 |
| C32-C40 Hydrocarbons | U | | 1.76 | 5.29 | 1 | 06/04/2024 23:49 | WG2298254 |
| *(S) o-Terphenyl* | *40.5* | | | *18.0-148* | | *06/04/2024 23:49* | WG2298254 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 06/02/2024 17:46 | WG2294959 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/30/2024 20:24 | WG2294965 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 21.4 | | 0.736 | 5.00 | 1 | 06/04/2024 21:35 | WG2296317 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/04/2024 21:35 | WG2296317 |
| Chromium,Dissolved | U | | 1.40 | 10.0 | 1 | 06/04/2024 21:35 | WG2296317 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 | 1 | 06/04/2024 21:35 | WG2296317 |
| Molybdenum,Dissolved | 27.7 | | 1.16 | 5.00 | 1 | 06/04/2024 21:35 | WG2296317 |
| Vanadium,Dissolved | 24.2 | | 4.99 | 20.0 | 1 | 06/04/2024 21:35 | WG2296317 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Antimony,Dissolved | 1.10 | J | 1.03 | 4.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Arsenic | 7.22 | | 0.180 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Arsenic,Dissolved | 8.01 | | 0.180 | 2.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Barium | 68.9 | | 0.381 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Beryllium | 0.222 | J | 0.190 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Cadmium | 0.656 | J | 0.150 | 1.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Chromium | 15.4 | | 1.24 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Copper | 17.1 | | 1.51 | 5.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Copper,Dissolved | 2.10 | J | 1.51 | 5.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Cobalt | 2.55 | | 0.0596 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Lead | 7.60 | | 0.849 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Molybdenum | 23.1 | | 0.348 | 5.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Nickel | 15.4 | | 0.816 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Nickel,Dissolved | 0.956 | J | 0.816 | 2.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Selenium | U | | 0.300 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/19/2024 01:03 | WG2297585 |
| Vanadium | 52.3 | | 0.664 | 5.00 | 1 | 06/27/2024 22:38 | WG2305428 |
| Zinc | 31.5 | | 3.02 | 25.0 | 1 | 06/27/2024 22:38 | WG2305428 |
| Zinc,Dissolved | U | | 3.02 | 25.0 | 1 | 06/19/2024 01:03 | WG2297585 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 72.5 | J | 30.4 | 100 | 1 | 06/03/2024 14:07 | WG2297466 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *78.0-120* | | *06/03/2024 14:07* | WG2297466 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | J3 | 11.3 | 50.0 | 1 | 06/03/2024 20:47 | WG2297610 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 20:47 | WG2297610 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 20:47 | WG2297610 |
| Benzene | 0.265 | J | 0.0941 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Chlorobenzene | 1.54 | | 0.116 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Chloroethane | U | J3 | 0.192 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 20:47 | WG2297610 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2-Dichlorobenzene | 2.04 | | 0.107 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,1-Dichloroethane | 2.62 | | 0.100 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,1-Dichloroethene | 0.194 | J | 0.188 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| cis-1,2-Dichloroethene | 175 | | 0.126 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| trans-1,2-Dichloroethene | 3.47 | | 0.149 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 20:47 | WG2297610 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 20:47 | WG2297610 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Naphthalene | 1.74 | J | 1.00 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Trichloroethene | 6.16 | | 0.190 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| Xylenes, Total | 0.254 | J | 0.174 | 3.00 | 1 | 06/03/2024 20:47 | WG2297610 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *06/03/2024 20:47* | WG2297610 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *77.0-126* | | *06/03/2024 20:47* | WG2297610 |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* | | *06/03/2024 20:47* | WG2297610 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 382 | | 33.0 | 100 | 1 | 05/31/2024 16:32 | WG2295250 |
| C22-C32 Hydrocarbons | 268 | | 33.0 | 100 | 1 | 05/31/2024 16:32 | WG2295250 |
| C32-C40 Hydrocarbons | 67.4 | J | 33.0 | 100 | 1 | 05/31/2024 16:32 | WG2295250 |
| *(S) o-Terphenyl* | *67.9* | | | *52.0-156* | | *05/31/2024 16:32* | WG2295250 |

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

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 06/02/2024 17:48 | WG2294959 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/30/2024 20:26 | WG2294965 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 91.2 | O1 | 0.736 | 5.00 | 1 | 06/04/2024 21:45 | WG2296317 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/04/2024 21:45 | WG2296317 |
| Chromium,Dissolved | 3.92 | J | 1.40 | 10.0 | 1 | 06/04/2024 21:45 | WG2296317 |
| Cobalt,Dissolved | 1.33 | J | 0.840 | 10.0 | 1 | 06/04/2024 21:45 | WG2296317 |
| Molybdenum,Dissolved | 28.1 | | 1.16 | 5.00 | 1 | 06/04/2024 21:45 | WG2296317 |
| Vanadium,Dissolved | 11.2 | J | 4.99 | 20.0 | 1 | 06/04/2024 21:45 | WG2296317 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | 39.3 | | 1.03 | 4.00 | 1 | 07/03/2024 11:17 | WG2316050 |
| Antimony,Dissolved | 39.2 | | 1.03 | 4.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Arsenic | 11.8 | | 0.180 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Arsenic,Dissolved | 5.51 | | 0.180 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Barium | 209 | | 0.381 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Beryllium | 0.738 | J | 0.190 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Cadmium | 53.3 | | 0.150 | 1.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Chromium | 67.1 | | 1.24 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Copper | 309 | | 1.51 | 5.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Copper,Dissolved | 3.76 | J | 1.51 | 5.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Cobalt | 16.2 | | 0.0596 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Lead | 9470 | | 0.849 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Lead,Dissolved | 2.65 | | 0.849 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Molybdenum | 4.82 | J | 0.348 | 5.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Nickel | 84.3 | | 0.816 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Nickel,Dissolved | 12.4 | | 0.816 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Selenium | 1.39 | J | 0.300 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Selenium,Dissolved | 1.20 | J | 0.300 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Thallium | 0.254 | J | 0.121 | 2.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/19/2024 11:22 | WG2297585 |
| Vanadium | 67.2 | | 0.664 | 5.00 | 1 | 06/27/2024 23:29 | WG2305428 |
| Zinc | 7100 | | 3.02 | 25.0 | 1 | 06/27/2024 23:29 | WG2305428 |
| Zinc,Dissolved | 8.46 | J | 3.02 | 25.0 | 1 | 06/19/2024 11:22 | WG2297585 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 62.6 | J | 30.4 | 100 | 1 | 06/03/2024 14:30 | WG2297466 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *78.0-120* | | *06/03/2024 14:30* | WG2297466 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | J3 | 11.3 | 50.0 | 1 | 06/03/2024 21:08 | WG2297610 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 21:08 | WG2297610 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 21:08 | WG2297610 |
| Benzene | 2.45 | | 0.0941 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Chlorobenzene | 0.328 | J | 0.116 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Chloroethane | 1.17 | J J3 | 0.192 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 21:08 | WG2297610 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2-Dichlorobenzene | 1.41 | | 0.107 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,1-Dichloroethane | 6.04 | | 0.100 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| cis-1,2-Dichloroethene | 25.6 | | 0.126 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| trans-1,2-Dichloroethene | 1.17 | | 0.149 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Di-isopropyl ether | 0.204 | J | 0.105 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 21:08 | WG2297610 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 21:08 | WG2297610 |
| Methyl tert-butyl ether | 0.583 | J | 0.101 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Toluene | 0.281 | J | 0.278 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2,4-Trimethylbenzene | 0.484 | J | 0.322 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,2,3-Trimethylbenzene | 0.240 | J | 0.104 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| 1,3,5-Trimethylbenzene | 0.250 | J | 0.104 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| Xylenes, Total | 0.199 | J | 0.174 | 3.00 | 1 | 06/03/2024 21:08 | WG2297610 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *06/03/2024 21:08* | WG2297610 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *77.0-126* | | *06/03/2024 21:08* | WG2297610 |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* | | *06/03/2024 21:08* | WG2297610 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2030 | | 33.0 | 100 | 1 | 05/31/2024 16:53 | WG2295250 |
| C22-C32 Hydrocarbons | 2890 | | 33.0 | 100 | 1 | 05/31/2024 16:53 | WG2295250 |
| C32-C40 Hydrocarbons | 1200 | | 33.0 | 100 | 1 | 05/31/2024 16:53 | WG2295250 |
| *(S) o-Terphenyl* | *73.7* | | | *52.0-156* | | *05/31/2024 16:53* | WG2295250 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 06/02/2024 17:51 | WG2294959 |
| Mercury,Dissolved | U | | 0.100 | 0.200 | 1 | 05/30/2024 20:29 | WG2294965 |

## Metals (ICP) by Method 6010B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 22.2 | | 0.736 | 5.00 | 1 | 06/09/2024 10:41 | WG2297576 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 | 1 | 06/09/2024 10:41 | WG2297576 |
| Chromium,Dissolved | 1.73 | J | 1.40 | 10.0 | 1 | 06/09/2024 10:41 | WG2297576 |
| Cobalt,Dissolved | 0.950 | J | 0.840 | 10.0 | 1 | 06/09/2024 10:41 | WG2297576 |
| Molybdenum,Dissolved | 27.1 | | 1.16 | 5.00 | 1 | 06/09/2024 10:41 | WG2297576 |
| Vanadium,Dissolved | 21.8 | | 4.99 | 20.0 | 1 | 06/09/2024 10:41 | WG2297576 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Antimony,Dissolved | 1.14 | J | 1.03 | 4.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Arsenic | 7.69 | | 0.180 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Arsenic,Dissolved | 7.85 | | 0.180 | 2.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Barium | 47.7 | | 0.381 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Cadmium | 0.325 | J | 0.150 | 1.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Chromium | 9.50 | | 1.24 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Copper | 10.6 | | 1.51 | 5.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Copper,Dissolved | 1.69 | J | 1.51 | 5.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Cobalt | 1.56 | J | 0.0596 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Lead | 5.01 | | 0.849 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Molybdenum | 20.1 | | 0.348 | 5.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Nickel | 9.57 | | 0.816 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Nickel,Dissolved | U | | 0.816 | 2.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Selenium | 0.312 | J | 0.300 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Selenium,Dissolved | U | | 0.300 | 2.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Silver,Dissolved | U | | 0.0700 | 2.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Thallium,Dissolved | U | | 0.121 | 2.00 | 1 | 06/19/2024 02:36 | WG2297585 |
| Vanadium | 35.7 | | 0.664 | 5.00 | 1 | 06/27/2024 22:45 | WG2305428 |
| Zinc | 19.8 | J | 3.02 | 25.0 | 1 | 06/27/2024 22:45 | WG2305428 |
| Zinc,Dissolved | 3.64 | J | 3.02 | 25.0 | 1 | 06/19/2024 02:36 | WG2297585 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 73.3 | J | 30.4 | 100 | 1 | 06/03/2024 14:53 | WG2297466 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *78.0-120* | | *06/03/2024 14:53* | WG2297466 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | J3 | 11.3 | 50.0 | 1 | 06/03/2024 21:30 | WG2297610 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/03/2024 21:30 | WG2297610 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/03/2024 21:30 | WG2297610 |
| Benzene | 0.251 | J | 0.0941 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Chlorobenzene | 1.34 | | 0.116 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Chloroethane | U | J3 | 0.192 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/03/2024 21:30 | WG2297610 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2-Dichlorobenzene | 1.90 | | 0.107 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,1-Dichloroethane | 2.61 | | 0.100 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,1-Dichloroethene | 0.264 | J | 0.188 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| cis-1,2-Dichloroethene | 186 | | 0.126 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| trans-1,2-Dichloroethene | 3.39 | | 0.149 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/03/2024 21:30 | WG2297610 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/03/2024 21:30 | WG2297610 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Naphthalene | 1.66 | J | 1.00 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Trichloroethene | 5.12 | | 0.190 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,2,3-Trimethylbenzene | 0.107 | J | 0.104 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/03/2024 21:30 | WG2297610 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *06/03/2024 21:30* | WG2297610 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *77.0-126* | | *06/03/2024 21:30* | WG2297610 |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* | | *06/03/2024 21:30* | WG2297610 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 405 | | 33.0 | 100 | 1 | 05/31/2024 17:13 | WG2295250 |
| C22-C32 Hydrocarbons | 333 | | 33.0 | 100 | 1 | 05/31/2024 17:13 | WG2295250 |
| C32-C40 Hydrocarbons | 199 | | 33.0 | 100 | 1 | 05/31/2024 17:13 | WG2295250 |
| *(S) o-Terphenyl* | *71.6* | | | *52.0-156* | | *05/31/2024 17:13* | WG2295250 |

# QUALITY CONTROL SUMMARY

L1740925-01,02,04,05,06,08,09,10,11,13

## Method Blank (MB)

(MB) R4076000-1 05/31/24 07:14

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

## L1740925-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1740925-04 05/31/24 07:14 • (DUP) R4076000-3 05/31/24 07:14

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 94.4 | 95.1 | 1 | 0.777 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076000-2 05/31/24 07:14

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4075999-1 05/31/24 07:03

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

## L1740925-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1740925-16 05/31/24 07:03 • (DUP) R4075999-3 05/31/24 07:03

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 83.3 | 83.0 | 1 | 0.304 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075999-2 05/31/24 07:03

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4075909-1 05/31/24 11:34

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

## L1740830-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1740830-01 05/31/24 11:34 • (DUP) R4075909-3 05/31/24 11:34

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 88.2 | 87.3 | 1 | 0.988 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4075909-2 05/31/24 11:34

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1740925-07,17

## Method Blank (MB)

(MB) R4078969-1 06/07/24 12:45

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

## L1740925-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1740925-17 06/07/24 12:45 • (DUP) R4078969-3 06/07/24 12:45

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 83.7 | 83.5 | 1 | 0.149 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4078969-2 06/07/24 12:45

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4087024-1 06/26/24 13:44

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

## L1739342-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1739342-11 06/26/24 13:44 • (DUP) R4087024-3 06/26/24 13:44

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.7 | 85.8 | 1 | 1.28 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4087024-2 06/26/24 13:44

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1740925-03,25,26,27

## Method Blank (MB)

(MB) R4076329-1 06/02/24 17:10

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4076329-2 06/02/24 17:13

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 3.19 | 106 | 80.0-120 | |

## L1740715-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740715-01 06/02/24 17:15 • (MS) R4076329-4 06/02/24 17:20 • (MSD) R4076329-5 06/02/24 17:23

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 2.19 | 2.22 | 73.0 | 73.9 | 1 | 75.0-125 | J6 | J6 | 1.12 | 20 |

## Method Blank (MB)

(MB) R4075546-1 05/30/24 19:45

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury,Dissolved | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4075546-2 05/30/24 19:53

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | 2.94 | 98.2 | 80.0-120 | |

## L1740641-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740641-04 05/30/24 19:56 • (MS) R4075546-4 05/30/24 20:00 • (MSD) R4075546-5 05/30/24 20:03

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury,Dissolved | 3.00 | U | 1.93 | 2.09 | 64.4 | 69.6 | 1 | 75.0-125 | J6 | J6 | 7.82 | 20 |

**Sample Narrative:**

MS: Matrix spike failure due to matrix interference.

MSD: Matrix spike failure due to matrix interference.

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4076270-1 06/01/24 17:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4076270-2 06/01/24 17:39

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.495 | 98.9 | 80.0-120 | |

## L1740925-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-05 06/01/24 17:41 • (MS) R4076270-4 06/01/24 17:51 • (MSD) R4076270-5 06/01/24 17:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.557 | 0.607 | 0.892 | 1.66 | 51.1 | 189 | 1 | 75.0-125 | J6 | J3 J5 | 60.2 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-16,20,21,22

## Method Blank (MB)

(MB) R4075884-1 05/31/24 13:53

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4075884-2 05/31/24 13:56

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.498 | 99.5 | 80.0-120 | |

## L1741346-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741346-06 05/31/24 13:58 • (MS) R4075884-4 05/31/24 14:03 • (MSD) R4075884-5 05/31/24 14:10

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | U | 0.516 | 0.520 | 103 | 104 | 1 | 75.0-125 | | | 0.696 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-07,17

## Method Blank (MB)

(MB) R4079269-1 06/09/24 17:07

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4079269-2 06/09/24 17:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.468 | 93.6 | 80.0-120 | |

## L1743501-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743501-14 06/09/24 17:13 • (MS) R4079269-4 06/09/24 17:23 • (MSD) R4079269-5 06/09/24 17:26

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | 0.0191 | 0.469 | 0.461 | 90.1 | 88.3 | 1 | 75.0-125 | | | 1.85 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-03,25,26

## Method Blank (MB)

(MB) R4077337-1 06/04/24 21:42

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | U | | 0.736 | 5.00 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 |
| Chromium,Dissolved | U | | 1.40 | 10.0 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 |

## Laboratory Control Sample (LCS)

(LCS) R4077337-2 06/04/24 21:44

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 994 | 99.4 | 80.0-120 | |
| Beryllium,Dissolved | 1000 | 970 | 97.0 | 80.0-120 | |
| Chromium,Dissolved | 1000 | 1000 | 100 | 80.0-120 | |
| Cobalt,Dissolved | 1000 | 949 | 94.9 | 80.0-120 | |
| Molybdenum,Dissolved | 1000 | 1000 | 100 | 80.0-120 | |
| Vanadium,Dissolved | 1000 | 956 | 95.6 | 80.0-120 | |

## L1740925-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-26 06/04/24 21:45 • (MS) R4077337-4 06/04/24 21:49 • (MSD) R4077337-5 06/04/24 21:50

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 91.2 | 1090 | 1080 | 99.5 | 99.0 | 1 | 75.0-125 | | | 0.421 | 20 |
| Beryllium,Dissolved | 1000 | U | 1000 | 992 | 100 | 99.2 | 1 | 75.0-125 | | | 1.03 | 20 |
| Chromium,Dissolved | 1000 | 3.92 | 1020 | 1020 | 101 | 101 | 1 | 75.0-125 | | | 0.165 | 20 |
| Cobalt,Dissolved | 1000 | 1.33 | 999 | 990 | 99.8 | 98.9 | 1 | 75.0-125 | | | 0.933 | 20 |
| Molybdenum,Dissolved | 1000 | 28.1 | 1040 | 1050 | 102 | 102 | 1 | 75.0-125 | | | 0.563 | 20 |
| Vanadium,Dissolved | 1000 | 11.2 | 992 | 981 | 98.1 | 97.0 | 1 | 75.0-125 | | | 1.12 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-27

## Method Blank (MB)

(MB) R4079220-1 06/09/24 10:37

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Barium,Dissolved | U | | 0.736 | 5.00 |
| Beryllium,Dissolved | U | | 0.330 | 2.00 |
| Chromium,Dissolved | U | | 1.40 | 10.0 |
| Cobalt,Dissolved | U | | 0.840 | 10.0 |
| Molybdenum,Dissolved | U | | 1.16 | 5.00 |
| Vanadium,Dissolved | U | | 4.99 | 20.0 |

## Laboratory Control Sample (LCS)

(LCS) R4079220-2 06/09/24 10:39

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 978 | 97.8 | 80.0-120 | |
| Beryllium,Dissolved | 1000 | 951 | 95.1 | 80.0-120 | |
| Chromium,Dissolved | 1000 | 967 | 96.7 | 80.0-120 | |
| Cobalt,Dissolved | 1000 | 892 | 89.2 | 80.0-120 | |
| Molybdenum,Dissolved | 1000 | 940 | 94.0 | 80.0-120 | |
| Vanadium,Dissolved | 1000 | 928 | 92.8 | 80.0-120 | |

## L1740925-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-27 06/09/24 10:41 • (MS) R4079220-4 06/09/24 10:44 • (MSD) R4079220-5 06/09/24 10:46

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium,Dissolved | 1000 | 22.2 | 973 | 1000 | 95.1 | 98.1 | 1 | 75.0-125 | | | 3.04 | 20 |
| Beryllium,Dissolved | 1000 | U | 959 | 971 | 95.9 | 97.1 | 1 | 75.0-125 | | | 1.14 | 20 |
| Chromium,Dissolved | 1000 | 1.73 | 954 | 983 | 95.2 | 98.1 | 1 | 75.0-125 | | | 3.00 | 20 |
| Cobalt,Dissolved | 1000 | 0.950 | 899 | 924 | 89.8 | 92.3 | 1 | 75.0-125 | | | 2.75 | 20 |
| Molybdenum,Dissolved | 1000 | 27.1 | 954 | 984 | 92.7 | 95.6 | 1 | 75.0-125 | | | 3.05 | 20 |
| Vanadium,Dissolved | 1000 | 21.8 | 963 | 970 | 94.1 | 94.8 | 1 | 75.0-125 | | | 0.755 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-04,05,06,09,10,11,14,15,16,20,21,22

## Method Blank (MB)

(MB) R4077589-1 06/05/24 11:07

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077589-2 06/05/24 11:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 94.3 | 94.3 | 80.0-120 | |
| Arsenic | 100 | 94.8 | 94.8 | 80.0-120 | |
| Barium | 100 | 99.7 | 99.7 | 80.0-120 | |
| Beryllium | 100 | 97.1 | 97.1 | 80.0-120 | |
| Cadmium | 100 | 95.2 | 95.2 | 80.0-120 | |
| Chromium | 100 | 99.4 | 99.4 | 80.0-120 | |
| Cobalt | 100 | 92.8 | 92.8 | 80.0-120 | |
| Copper | 100 | 98.1 | 98.1 | 80.0-120 | |
| Lead | 100 | 94.2 | 94.2 | 80.0-120 | |
| Molybdenum | 100 | 98.0 | 98.0 | 80.0-120 | |
| Nickel | 100 | 93.8 | 93.8 | 80.0-120 | |
| Selenium | 100 | 93.3 | 93.3 | 80.0-120 | |
| Silver | 20.0 | 18.9 | 94.4 | 80.0-120 | |
| Thallium | 100 | 98.5 | 98.5 | 80.0-120 | |
| Vanadium | 100 | 96.1 | 96.1 | 80.0-120 | |
| Zinc | 100 | 96.1 | 96.1 | 80.0-120 | |

## L1740737-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740737-03 06/05/24 11:10 • (MS) R4077589-5 06/05/24 11:15 • (MSD) R4077589-6 06/05/24 11:17

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 115 | 1.64 | 97.5 | 99.0 | 83.7 | 85.0 | 1 | 75.0-125 | | | 1.47 | 20 |
| Arsenic | 115 | 2.07 | 105 | 106 | 90.1 | 91.2 | 1 | 75.0-125 | | | 1.10 | 20 |
| Barium | 115 | 229 | 357 | 340 | 111 | 97.2 | 1 | 75.0-125 | | | 4.67 | 20 |
| Beryllium | 115 | 0.551 | 109 | 113 | 94.6 | 98.1 | 1 | 75.0-125 | | | 3.55 | 20 |
| Cadmium | 115 | U | 102 | 102 | 88.8 | 89.1 | 1 | 75.0-125 | | | 0.267 | 20 |
| Chromium | 115 | 15.4 | 122 | 126 | 93.1 | 96.4 | 1 | 75.0-125 | | | 3.04 | 20 |
| Cobalt | 115 | 4.96 | 111 | 115 | 92.4 | 96.4 | 1 | 75.0-125 | | | 4.09 | 20 |
| Copper | 115 | 3.23 | 118 | 125 | 100 | 106 | 1 | 75.0-125 | | | 5.36 | 20 |
| Lead | 115 | 14.6 | 114 | 119 | 86.8 | 90.7 | 1 | 75.0-125 | | | 3.80 | 20 |
| Molybdenum | 115 | U | 102 | 106 | 89.4 | 92.3 | 1 | 75.0-125 | | | 3.12 | 20 |
| Nickel | 115 | 12.8 | 112 | 116 | 86.6 | 90.0 | 1 | 75.0-125 | | | 3.42 | 20 |
| Selenium | 115 | U | 104 | 106 | 90.7 | 92.3 | 1 | 75.0-125 | | | 1.75 | 20 |
| Silver | 22.9 | U | 21.4 | 22.0 | 93.3 | 96.1 | 1 | 75.0-125 | | | 2.90 | 20 |
| Thallium | 115 | U | 106 | 110 | 92.9 | 96.0 | 1 | 75.0-125 | | | 3.26 | 20 |
| Vanadium | 115 | 25.9 | 133 | 137 | 93.3 | 96.7 | 1 | 75.0-125 | | | 2.91 | 20 |
| Zinc | 115 | 18.0 | 119 | 123 | 87.8 | 91.5 | 1 | 75.0-125 | | | 3.56 | 20 |

## Method Blank (MB)

(MB) R4081540-1 06/13/24 18:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | 0.667 | J | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | 0.261 | J | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4081540-2 06/13/24 18:12

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 87.3 | 87.3 | 80.0-120 | |
| Arsenic | 100 | 85.7 | 85.7 | 80.0-120 | |
| Barium | 100 | 90.7 | 90.7 | 80.0-120 | |
| Beryllium | 100 | 89.6 | 89.6 | 80.0-120 | |
| Cadmium | 100 | 85.9 | 85.9 | 80.0-120 | |
| Chromium | 100 | 90.2 | 90.2 | 80.0-120 | |
| Cobalt | 100 | 85.9 | 85.9 | 80.0-120 | |
| Copper | 100 | 93.6 | 93.6 | 80.0-120 | |
| Lead | 100 | 83.6 | 83.6 | 80.0-120 | |
| Molybdenum | 100 | 90.3 | 90.3 | 80.0-120 | |
| Nickel | 100 | 86.2 | 86.2 | 80.0-120 | |
| Selenium | 100 | 85.4 | 85.4 | 80.0-120 | |
| Silver | 20.0 | 19.1 | 95.3 | 80.0-120 | |
| Thallium | 100 | 90.0 | 90.0 | 80.0-120 | |
| Vanadium | 100 | 89.4 | 89.4 | 80.0-120 | |
| Zinc | 100 | 85.8 | 85.8 | 80.0-120 | |

# WG2300670

Metals (ICP) by Method 6010B

# QUALITY CONTROL SUMMARY

L1740925-07,17

## L1743501-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743501-02 06/13/24 18:14 • (MS) R4081540-5 06/13/24 18:19 • (MSD) R4081540-6 06/13/24 18:21

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 100 | 5.47 | 73.5 | 72.6 | 68.0 | 67.1 | 1 | 75.0-125 | J6 | J6 | 1.30 | 20 |
| Arsenic | 100 | 1.33 | 77.4 | 74.7 | 76.1 | 73.4 | 1 | 75.0-125 | | J6 | 3.55 | 20 |
| Barium | 100 | 83.0 | 170 | 143 | 87.2 | 59.9 | 1 | 75.0-125 | | J6 | 17.4 | 20 |
| Beryllium | 100 | 1.09 | 83.7 | 81.9 | 82.6 | 80.8 | 1 | 75.0-125 | | | 2.21 | 20 |
| Cadmium | 100 | U | 76.2 | 72.9 | 76.2 | 72.9 | 1 | 75.0-125 | | J6 | 4.48 | 20 |
| Chromium | 100 | 11.0 | 89.5 | 84.3 | 78.5 | 73.3 | 1 | 75.0-125 | | J6 | 6.00 | 20 |
| Cobalt | 100 | 6.58 | 92.9 | 88.3 | 86.3 | 81.7 | 1 | 75.0-125 | | | 5.09 | 20 |
| Copper | 100 | 14.2 | 99.9 | 93.6 | 85.7 | 79.4 | 1 | 75.0-125 | | | 6.55 | 20 |
| Lead | 100 | 16.8 | 98.5 | 90.5 | 81.7 | 73.6 | 1 | 75.0-125 | | J6 | 8.52 | 20 |
| Molybdenum | 100 | U | 80.7 | 78.3 | 80.7 | 78.3 | 1 | 75.0-125 | | | 3.06 | 20 |
| Nickel | 100 | 10.5 | 98.6 | 92.0 | 88.1 | 81.6 | 1 | 75.0-125 | | | 6.83 | 20 |
| Selenium | 100 | 0.786 | 87.3 | 83.7 | 86.5 | 82.9 | 1 | 75.0-125 | | | 4.20 | 20 |
| Silver | 20.0 | U | 15.1 | 15.2 | 75.7 | 75.8 | 1 | 75.0-125 | | | 0.0378 | 20 |
| Thallium | 100 | U | 84.6 | 82.2 | 84.6 | 82.2 | 1 | 75.0-125 | | | 2.82 | 20 |
| Vanadium | 100 | 24.9 | 109 | 99.7 | 84.6 | 74.8 | 1 | 75.0-125 | | J6 | 9.30 | 20 |
| Zinc | 100 | 43.8 | 123 | 109 | 79.2 | 64.9 | 1 | 75.0-125 | | J6 | 12.4 | 20 |

## Method Blank (MB)

(MB) R4087553-1 06/27/24 20:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Lead | U | | 0.208 | 0.500 |
| Nickel | 0.181 | J | 0.132 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4087553-2 06/27/24 20:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Lead | 100 | 98.7 | 98.7 | 80.0-120 | |
| Nickel | 100 | 97.7 | 97.7 | 80.0-120 | |

## L1750258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1750258-01 06/27/24 20:05 • (MS) R4087553-5 06/27/24 20:10 • (MSD) R4087553-6 06/27/24 20:12

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 114 | 19.1 | 116 | 118 | 84.6 | 86.9 | 1 | 75.0-125 | | | 2.23 | 20 |
| Nickel | 114 | 4.00 | 111 | 112 | 93.9 | 94.8 | 1 | 75.0-125 | | | 0.879 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-03,25,26,27

## Method Blank (MB)

(MB) R4083233-1 06/18/24 12:56

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony,Dissolved | U | | 1.03 | 4.00 |
| Arsenic,Dissolved | U | | 0.180 | 2.00 |
| Cadmium,Dissolved | U | | 0.150 | 1.00 |
| Copper,Dissolved | U | | 1.51 | 5.00 |
| Lead,Dissolved | U | | 0.849 | 2.00 |
| Nickel,Dissolved | U | | 0.816 | 2.00 |
| Selenium,Dissolved | U | | 0.300 | 2.00 |
| Silver,Dissolved | U | | 0.0700 | 2.00 |
| Thallium,Dissolved | U | | 0.121 | 2.00 |
| Zinc,Dissolved | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4083233-2 06/18/24 13:05

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | 49.3 | 98.6 | 80.0-120 | |
| Arsenic,Dissolved | 50.0 | 49.8 | 99.6 | 80.0-120 | |
| Cadmium,Dissolved | 50.0 | 52.4 | 105 | 80.0-120 | |
| Copper,Dissolved | 50.0 | 48.5 | 96.9 | 80.0-120 | |
| Lead,Dissolved | 50.0 | 48.7 | 97.3 | 80.0-120 | |
| Nickel,Dissolved | 50.0 | 51.4 | 103 | 80.0-120 | |
| Selenium,Dissolved | 50.0 | 47.8 | 95.6 | 80.0-120 | |
| Silver,Dissolved | 50.0 | 48.4 | 96.7 | 80.0-120 | |
| Thallium,Dissolved | 50.0 | 47.7 | 95.5 | 80.0-120 | |
| Zinc,Dissolved | 50.0 | 52.5 | 105 | 80.0-120 | |

## L1740656-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740656-20 06/18/24 13:08 • (MS) R4083233-4 06/18/24 13:15 • (MSD) R4083233-5 06/18/24 13:18

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony,Dissolved | 50.0 | U | 43.5 | 45.5 | 87.0 | 91.1 | 10 | 75.0-125 | | | 4.54 | 20 |
| Arsenic,Dissolved | 50.0 | 80.4 | 126 | 122 | 91.6 | 83.0 | 10 | 75.0-125 | | | 3.48 | 20 |
| Cadmium,Dissolved | 50.0 | U | 45.7 | 48.1 | 91.5 | 96.3 | 10 | 75.0-125 | | | 5.09 | 20 |
| Copper,Dissolved | 50.0 | U | 51.9 | 53.7 | 104 | 107 | 10 | 75.0-125 | | | 3.33 | 20 |
| Lead,Dissolved | 50.0 | U | 49.2 | 46.8 | 98.4 | 93.7 | 10 | 75.0-125 | | | 4.89 | 20 |
| Nickel,Dissolved | 50.0 | U | 49.4 | 50.2 | 98.7 | 100 | 10 | 75.0-125 | | | 1.75 | 20 |
| Selenium,Dissolved | 50.0 | 39.5 | 92.3 | 81.8 | 106 | 84.6 | 10 | 75.0-125 | | | 12.1 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-03,25,26,27

## L1740656-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740656-20 06/18/24 13:08 • (MS) R4083233-4 06/18/24 13:15 • (MSD) R4083233-5 06/18/24 13:18

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver,Dissolved | 50.0 | U | 48.0 | 47.5 | 95.9 | 95.1 | 10 | 75.0-125 | | | 0.844 | 20 |
| Thallium,Dissolved | 50.0 | U | 48.6 | 47.7 | 97.1 | 95.5 | 10 | 75.0-125 | | | 1.75 | 20 |
| Zinc,Dissolved | 50.0 | U | 51.0 | 64.6 | 102 | 129 | 10 | 75.0-125 | | J3 J5 | 23.6 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-03,25,26,27

## Method Blank (MB)

(MB) R4087559-1 06/27/24 21:24

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | 4.56 | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4087559-2 06/27/24 21:27

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 46.5 | 93.1 | 80.0-120 | |
| Arsenic | 50.0 | 50.1 | 100 | 80.0-120 | |
| Barium | 50.0 | 47.9 | 95.9 | 80.0-120 | |
| Beryllium | 50.0 | 55.0 | 110 | 80.0-120 | |
| Cadmium | 50.0 | 52.7 | 105 | 80.0-120 | |
| Chromium | 50.0 | 51.1 | 102 | 80.0-120 | |
| Copper | 50.0 | 48.2 | 96.4 | 80.0-120 | |
| Cobalt | 50.0 | 52.7 | 105 | 80.0-120 | |
| Lead | 50.0 | 50.1 | 100 | 80.0-120 | |
| Molybdenum | 50.0 | 48.5 | 97.0 | 80.0-120 | |
| Nickel | 50.0 | 53.2 | 106 | 80.0-120 | |
| Selenium | 50.0 | 49.3 | 98.7 | 80.0-120 | |
| Silver | 50.0 | 51.4 | 103 | 80.0-120 | |
| Thallium | 50.0 | 50.2 | 100 | 80.0-120 | |
| Vanadium | 50.0 | 49.7 | 99.5 | 80.0-120 | |
| Zinc | 50.0 | 48.9 | 97.8 | 80.0-120 | |

## L1743086-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743086-01 06/27/24 21:30 • (MS) R4087559-4 06/27/24 21:37 • (MSD) R4087559-5 06/27/24 21:40

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 50.7 | 50.1 | 101 | 100 | 1 | 75.0-125 | | | 1.27 | 20 |
| Arsenic | 50.0 | 1.12 | 49.8 | 49.7 | 97.4 | 97.2 | 1 | 75.0-125 | | | 0.223 | 20 |
| Barium | 50.0 | 17.4 | 67.9 | 67.1 | 101 | 99.3 | 1 | 75.0-125 | | | 1.14 | 20 |
| Beryllium | 50.0 | 5.30 | 57.9 | 59.1 | 105 | 108 | 1 | 75.0-125 | | | 1.98 | 20 |
| Cadmium | 50.0 | 2.43 | 57.1 | 56.4 | 109 | 108 | 1 | 75.0-125 | | | 1.20 | 20 |
| Chromium | 50.0 | 1.48 | 48.9 | 49.2 | 97.8 | 98.5 | 1 | 75.0-125 | | | 0.717 | 20 |
| Copper | 50.0 | 5.84 | 52.4 | 51.0 | 93.2 | 90.4 | 1 | 75.0-125 | | | 2.65 | 20 |
| Cobalt | 50.0 | 55.2 | 105 | 107 | 99.1 | 103 | 1 | 75.0-125 | | | 1.89 | 20 |
| Lead | 50.0 | 1.44 | 51.8 | 51.3 | 101 | 99.8 | 1 | 75.0-125 | | | 0.849 | 20 |
| Molybdenum | 50.0 | U | 52.8 | 52.6 | 106 | 105 | 1 | 75.0-125 | | | 0.343 | 20 |
| Nickel | 50.0 | 50.3 | 99.3 | 100 | 98.0 | 100 | 1 | 75.0-125 | | | 0.989 | 20 |
| Selenium | 50.0 | 1.52 | 53.3 | 51.7 | 104 | 100 | 1 | 75.0-125 | | | 3.10 | 20 |
| Silver | 50.0 | 0.0974 | 52.8 | 52.4 | 106 | 105 | 1 | 75.0-125 | | | 0.917 | 20 |
| Thallium | 50.0 | 0.570 | 50.9 | 49.5 | 101 | 97.8 | 1 | 75.0-125 | | | 2.87 | 20 |
| Vanadium | 50.0 | U | 48.6 | 47.5 | 97.1 | 95.0 | 1 | 75.0-125 | | | 2.26 | 20 |
| Zinc | 50.0 | 48.8 | 94.8 | 95.7 | 92.1 | 93.8 | 1 | 75.0-125 | | | 0.899 | 20 |

## Method Blank (MB)

(MB) R4089612-1 07/03/24 11:07

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4089612-2 07/03/24 11:10 • (LCSD) R4089612-3 07/03/24 11:14

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | 49.0 | 50.2 | 98.0 | 100 | 80.0-120 | | | 2.32 | 20 |

## Method Blank (MB)

(MB) R4076402-2 06/02/24 14:12

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.97 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.7* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4076402-1 06/02/24 12:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.68 | 93.6 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## Method Blank (MB)

(MB) R4078051-2 06/03/24 12:03

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078051-1 06/03/24 11:17

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 4810 | 96.2 | 71.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *102* | *78.0-120* | |

## Method Blank (MB)

(MB) R4077108-3 06/03/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4077108-3 06/03/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *86.8* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077108-1 06/03/24 21:28 • (LCSD) R4077108-2 06/03/24 21:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.524 | 0.544 | 83.8 | 87.0 | 10.0-160 | | | 3.75 | 31 |
| Acrylonitrile | 0.625 | 0.485 | 0.531 | 77.6 | 85.0 | 45.0-153 | | | 9.06 | 22 |
| Benzene | 0.125 | 0.112 | 0.107 | 89.6 | 85.6 | 70.0-123 | | | 4.57 | 20 |
| Bromobenzene | 0.125 | 0.108 | 0.111 | 86.4 | 88.8 | 73.0-121 | | | 2.74 | 20 |
| Bromodichloromethane | 0.125 | 0.106 | 0.107 | 84.8 | 85.6 | 73.0-121 | | | 0.939 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-01,02,05

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077108-1 06/03/24 21:28 • (LCSD) R4077108-2 06/03/24 21:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.0978 | 0.0937 | 78.2 | 75.0 | 64.0-132 | | | 4.28 | 20 |
| Bromomethane | 0.125 | 0.0912 | 0.0825 | 73.0 | 66.0 | 56.0-147 | | | 10.0 | 20 |
| n-Butylbenzene | 0.125 | 0.123 | 0.124 | 98.4 | 99.2 | 68.0-135 | | | 0.810 | 20 |
| sec-Butylbenzene | 0.125 | 0.117 | 0.114 | 93.6 | 91.2 | 74.0-130 | | | 2.60 | 20 |
| tert-Butylbenzene | 0.125 | 0.116 | 0.115 | 92.8 | 92.0 | 75.0-127 | | | 0.866 | 20 |
| Carbon tetrachloride | 0.125 | 0.121 | 0.120 | 96.8 | 96.0 | 66.0-128 | | | 0.830 | 20 |
| Chlorobenzene | 0.125 | 0.116 | 0.114 | 92.8 | 91.2 | 76.0-128 | | | 1.74 | 20 |
| Chlorodibromomethane | 0.125 | 0.110 | 0.109 | 88.0 | 87.2 | 74.0-127 | | | 0.913 | 20 |
| Chloroethane | 0.125 | 0.112 | 0.111 | 89.6 | 88.8 | 61.0-134 | | | 0.897 | 20 |
| Chloroform | 0.125 | 0.115 | 0.108 | 92.0 | 86.4 | 72.0-123 | | | 6.28 | 20 |
| Chloromethane | 0.125 | 0.121 | 0.113 | 96.8 | 90.4 | 51.0-138 | | | 6.84 | 20 |
| 2-Chlorotoluene | 0.125 | 0.112 | 0.117 | 89.6 | 93.6 | 75.0-124 | | | 4.37 | 20 |
| 4-Chlorotoluene | 0.125 | 0.107 | 0.106 | 85.6 | 84.8 | 75.0-124 | | | 0.939 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0892 | 0.0851 | 71.4 | 68.1 | 59.0-130 | | | 4.70 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.107 | 0.106 | 85.6 | 84.8 | 74.0-128 | | | 0.939 | 20 |
| Dibromomethane | 0.125 | 0.113 | 0.110 | 90.4 | 88.0 | 75.0-122 | | | 2.69 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.115 | 0.113 | 92.0 | 90.4 | 76.0-124 | | | 1.75 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.119 | 0.117 | 95.2 | 93.6 | 76.0-125 | | | 1.69 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.110 | 0.114 | 88.0 | 91.2 | 77.0-121 | | | 3.57 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.134 | 0.137 | 107 | 110 | 43.0-156 | | | 2.21 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.112 | 0.111 | 89.6 | 88.8 | 70.0-127 | | | 0.897 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.109 | 0.104 | 87.2 | 83.2 | 65.0-131 | | | 4.69 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.120 | 0.113 | 96.0 | 90.4 | 65.0-131 | | | 6.01 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.119 | 0.114 | 95.2 | 91.2 | 73.0-125 | | | 4.29 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.116 | 0.113 | 92.8 | 90.4 | 71.0-125 | | | 2.62 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.111 | 0.107 | 88.8 | 85.6 | 74.0-125 | | | 3.67 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.115 | 0.110 | 92.0 | 88.0 | 73.0-125 | | | 4.44 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.115 | 0.110 | 92.0 | 88.0 | 80.0-125 | | | 4.44 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.111 | 0.108 | 88.8 | 86.4 | 76.0-127 | | | 2.74 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.113 | 0.109 | 90.4 | 87.2 | 73.0-127 | | | 3.60 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.121 | 0.113 | 96.8 | 90.4 | 59.0-135 | | | 6.84 | 20 |
| Di-isopropyl ether | 0.125 | 0.108 | 0.107 | 86.4 | 85.6 | 60.0-136 | | | 0.930 | 20 |
| Ethylbenzene | 0.125 | 0.117 | 0.108 | 93.6 | 86.4 | 74.0-126 | | | 8.00 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.123 | 0.111 | 98.4 | 88.8 | 57.0-150 | | | 10.3 | 20 |
| Isopropylbenzene | 0.125 | 0.118 | 0.111 | 94.4 | 88.8 | 72.0-127 | | | 6.11 | 20 |
| p-Isopropyltoluene | 0.125 | 0.119 | 0.119 | 95.2 | 95.2 | 72.0-133 | | | 0.000 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.550 | 0.548 | 88.0 | 87.7 | 30.0-160 | | | 0.364 | 24 |
| Methylene Chloride | 0.125 | 0.127 | 0.126 | 102 | 101 | 68.0-123 | | | 0.791 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.519 | 0.483 | 83.0 | 77.3 | 56.0-143 | | | 7.19 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.109 | 0.109 | 87.2 | 87.2 | 66.0-132 | | | 0.000 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077108-1 06/03/24 21:28 • (LCSD) R4077108-2 06/03/24 21:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.105 | 0.113 | 84.0 | 90.4 | 59.0-130 | | | 7.34 | 20 |
| n-Propylbenzene | 0.125 | 0.111 | 0.109 | 88.8 | 87.2 | 74.0-126 | | | 1.82 | 20 |
| Styrene | 0.125 | 0.113 | 0.110 | 90.4 | 88.0 | 72.0-127 | | | 2.69 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.113 | 0.111 | 90.4 | 88.8 | 74.0-129 | | | 1.79 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.0982 | 0.101 | 78.6 | 80.8 | 68.0-128 | | | 2.81 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.127 | 0.125 | 102 | 100 | 61.0-139 | | | 1.59 | 20 |
| Tetrachloroethene | 0.125 | 0.132 | 0.118 | 106 | 94.4 | 70.0-136 | | | 11.2 | 20 |
| Toluene | 0.125 | 0.113 | 0.106 | 90.4 | 84.8 | 75.0-121 | | | 6.39 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.118 | 0.110 | 94.4 | 88.0 | 59.0-139 | | | 7.02 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.109 | 0.111 | 87.2 | 88.8 | 62.0-137 | | | 1.82 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.128 | 0.121 | 102 | 96.8 | 69.0-126 | | | 5.62 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.115 | 0.110 | 92.0 | 88.0 | 78.0-123 | | | 4.44 | 20 |
| Trichloroethene | 0.125 | 0.106 | 0.105 | 84.8 | 84.0 | 76.0-126 | | | 0.948 | 20 |
| Trichlorofluoromethane | 0.125 | 0.125 | 0.124 | 100 | 99.2 | 61.0-142 | | | 0.803 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.112 | 0.108 | 89.6 | 86.4 | 67.0-129 | | | 3.64 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.115 | 0.111 | 92.0 | 88.8 | 70.0-126 | | | 3.54 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.115 | 0.110 | 92.0 | 88.0 | 74.0-124 | | | 4.44 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.118 | 0.113 | 94.4 | 90.4 | 73.0-127 | | | 4.33 | 20 |
| Vinyl chloride | 0.125 | 0.119 | 0.112 | 95.2 | 89.6 | 63.0-134 | | | 6.06 | 20 |
| Xylenes, Total | 0.375 | 0.350 | 0.327 | 93.3 | 87.2 | 72.0-127 | | | 6.79 | 20 |
| *(S) Toluene-d8* | | | | *101* | *98.6* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *96.5* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *97.1* | *91.8* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4077724-2 06/03/24 13:27

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | 0.000900 | J | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4077724-2 06/03/24 13:27

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *91.0* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R4077724-1 06/03/24 12:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.846 | 135 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.744 | 119 | 45.0-153 | |
| Benzene | 0.125 | 0.120 | 96.0 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.122 | 97.6 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.119 | 95.2 | 73.0-121 | |

## Laboratory Control Sample (LCS)

(LCS) R4077724-1 06/03/24 12:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.104 | 83.2 | 64.0-132 | |
| Bromomethane | 0.125 | 0.0952 | 76.2 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.132 | 106 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.128 | 102 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.136 | 109 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.121 | 96.8 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.119 | 95.2 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.117 | 93.6 | 74.0-127 | |
| Chloroethane | 0.125 | 0.109 | 87.2 | 61.0-134 | |
| Chloroform | 0.125 | 0.115 | 92.0 | 72.0-123 | |
| Chloromethane | 0.125 | 0.163 | 130 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.122 | 97.6 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.123 | 98.4 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.120 | 96.0 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.123 | 98.4 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.120 | 96.0 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.131 | 105 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.126 | 101 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.127 | 102 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.144 | 115 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.124 | 99.2 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.110 | 88.0 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.123 | 98.4 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.114 | 91.2 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.116 | 92.8 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.126 | 101 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.122 | 97.6 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.127 | 102 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.125 | 100 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.126 | 101 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.117 | 93.6 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.123 | 98.4 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.120 | 96.0 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.132 | 106 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.124 | 99.2 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.127 | 102 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.742 | 119 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.124 | 99.2 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.690 | 110 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.118 | 94.4 | 66.0-132 | |

## Laboratory Control Sample (LCS)

(LCS) R4077724-1 06/03/24 12:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.127 | 102 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.127 | 102 | 74.0-126 | |
| Styrene | 0.125 | 0.120 | 96.0 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.117 | 93.6 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.125 | 100 | 68.0-128 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.133 | 106 | 61.0-139 | |
| Tetrachloroethene | 0.125 | 0.123 | 98.4 | 70.0-136 | |
| Toluene | 0.125 | 0.115 | 92.0 | 75.0-121 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.129 | 103 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.129 | 103 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.127 | 102 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.121 | 96.8 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.125 | 100 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.126 | 101 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.123 | 98.4 | 67.0-129 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.123 | 98.4 | 70.0-126 | |
| 1,2,3-Trimethylbenzene | 0.125 | 0.120 | 96.0 | 74.0-124 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.129 | 103 | 73.0-127 | |
| Vinyl chloride | 0.125 | 0.107 | 85.6 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.369 | 98.4 | 72.0-127 | |
| *(S) Toluene-d8* | | | *99.4* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *103* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *100* | *70.0-130* | |

## Method Blank (MB)

(MB) R4078286-3 06/05/24 16:24

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.000425 | 0.00250 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *96.4* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078286-1 06/05/24 14:49 • (LCSD) R4078286-2 06/05/24 15:08

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.125 | 0.140 | 0.142 | 112 | 114 | 72.0-127 | | | 1.42 | 20 |
| n-Propylbenzene | 0.125 | 0.139 | 0.154 | 111 | 123 | 74.0-126 | | | 10.2 | 20 |
| *(S) Toluene-d8* | | | | *107* | *108* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *98.6* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *99.9* | *99.5* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4077212-3 06/03/24 14:47

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4077212-3 06/03/24 14:47

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *111* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077212-1 06/03/24 13:42 • (LCSD) R4077212-2 06/03/24 14:04

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 12.1 | 16.0 | 48.4 | 64.0 | 19.0-160 | J | J J3 | 27.8 | 27 |
| Acrolein | 25.0 | 20.9 | 21.5 | 83.6 | 86.0 | 10.0-160 | J | J | 2.83 | 26 |
| Acrylonitrile | 25.0 | 28.5 | 26.2 | 114 | 105 | 55.0-149 | | | 8.41 | 20 |
| Benzene | 5.00 | 5.03 | 4.90 | 101 | 98.0 | 70.0-123 | | | 2.62 | 20 |

# QUALITY CONTROL SUMMARY

L1740925-03,19,25,26,27

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077212-1 06/03/24 13:42 • (LCSD) R4077212-2 06/03/24 14:04

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 4.74 | 4.78 | 94.8 | 95.6 | 73.0-121 | | | 0.840 | 20 |
| Bromodichloromethane | 5.00 | 4.69 | 4.62 | 93.8 | 92.4 | 75.0-120 | | | 1.50 | 20 |
| Bromoform | 5.00 | 4.07 | 3.83 | 81.4 | 76.6 | 68.0-132 | | | 6.08 | 20 |
| Bromomethane | 5.00 | 5.85 | 5.37 | 117 | 107 | 10.0-160 | | | 8.56 | 25 |
| n-Butylbenzene | 5.00 | 5.05 | 4.83 | 101 | 96.6 | 73.0-125 | | | 4.45 | 20 |
| sec-Butylbenzene | 5.00 | 4.61 | 4.71 | 92.2 | 94.2 | 75.0-125 | | | 2.15 | 20 |
| tert-Butylbenzene | 5.00 | 4.77 | 4.83 | 95.4 | 96.6 | 76.0-124 | | | 1.25 | 20 |
| Carbon tetrachloride | 5.00 | 4.86 | 4.96 | 97.2 | 99.2 | 68.0-126 | | | 2.04 | 20 |
| Chlorobenzene | 5.00 | 4.80 | 4.79 | 96.0 | 95.8 | 80.0-121 | | | 0.209 | 20 |
| Chlorodibromomethane | 5.00 | 4.51 | 4.30 | 90.2 | 86.0 | 77.0-125 | | | 4.77 | 20 |
| Chloroethane | 5.00 | 2.90 | 4.67 | 58.0 | 93.4 | 47.0-150 | J | J J3 | 46.8 | 20 |
| Chloroform | 5.00 | 4.95 | 4.88 | 99.0 | 97.6 | 73.0-120 | J | J | 1.42 | 20 |
| Chloromethane | 5.00 | 6.03 | 5.52 | 121 | 110 | 41.0-142 | | | 8.83 | 20 |
| 2-Chlorotoluene | 5.00 | 4.69 | 4.74 | 93.8 | 94.8 | 76.0-123 | | | 1.06 | 20 |
| 4-Chlorotoluene | 5.00 | 4.77 | 4.80 | 95.4 | 96.0 | 75.0-122 | | | 0.627 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.59 | 4.31 | 91.8 | 86.2 | 58.0-134 | J | J | 6.29 | 20 |
| 1,2-Dibromoethane | 5.00 | 5.07 | 4.77 | 101 | 95.4 | 80.0-122 | | | 6.10 | 20 |
| Dibromomethane | 5.00 | 5.25 | 4.54 | 105 | 90.8 | 80.0-120 | | | 14.5 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 5.06 | 4.85 | 101 | 97.0 | 79.0-121 | | | 4.24 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.87 | 4.73 | 97.4 | 94.6 | 79.0-120 | | | 2.92 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 4.88 | 4.82 | 97.6 | 96.4 | 79.0-120 | | | 1.24 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.77 | 5.46 | 115 | 109 | 51.0-149 | | | 5.52 | 20 |
| 1,1-Dichloroethane | 5.00 | 4.97 | 4.92 | 99.4 | 98.4 | 70.0-126 | | | 1.01 | 20 |
| 1,2-Dichloroethane | 5.00 | 5.08 | 4.77 | 102 | 95.4 | 70.0-128 | | | 6.29 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.30 | 4.88 | 106 | 97.6 | 71.0-124 | | | 8.25 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 5.03 | 4.95 | 101 | 99.0 | 73.0-120 | | | 1.60 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 4.52 | 4.69 | 90.4 | 93.8 | 73.0-120 | | | 3.69 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.35 | 5.00 | 107 | 100 | 77.0-125 | | | 6.76 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.31 | 5.30 | 106 | 106 | 74.0-126 | | | 0.189 | 20 |
| 1,3-Dichloropropane | 5.00 | 5.16 | 4.79 | 103 | 95.8 | 80.0-120 | | | 7.44 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 5.18 | 4.98 | 104 | 99.6 | 80.0-123 | | | 3.94 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 4.97 | 5.01 | 99.4 | 100 | 78.0-124 | | | 0.802 | 20 |
| 2,2-Dichloropropane | 5.00 | 5.38 | 4.88 | 108 | 97.6 | 58.0-130 | | | 9.75 | 20 |
| Di-isopropyl ether | 5.00 | 5.33 | 5.28 | 107 | 106 | 58.0-138 | | | 0.943 | 20 |
| Ethylbenzene | 5.00 | 4.42 | 4.44 | 88.4 | 88.8 | 79.0-123 | | | 0.451 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 4.92 | 4.65 | 98.4 | 93.0 | 54.0-138 | | | 5.64 | 20 |
| Isopropylbenzene | 5.00 | 4.84 | 4.90 | 96.8 | 98.0 | 76.0-127 | | | 1.23 | 20 |
| p-Isopropyltoluene | 5.00 | 4.78 | 4.78 | 95.6 | 95.6 | 76.0-125 | | | 0.000 | 20 |
| 2-Butanone (MEK) | 25.0 | 19.0 | 17.7 | 76.0 | 70.8 | 44.0-160 | | | 7.08 | 20 |
| Methylene Chloride | 5.00 | 4.74 | 5.02 | 94.8 | 100 | 67.0-120 | J | | 5.74 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077212-1 06/03/24 13:42 • (LCSD) R4077212-2 06/03/24 14:04

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 28.6 | 27.8 | 114 | 111 | 68.0-142 | | | 2.84 | 20 |
| Methyl tert-butyl ether | 5.00 | 5.27 | 5.02 | 105 | 100 | 68.0-125 | | | 4.86 | 20 |
| Naphthalene | 5.00 | 5.82 | 5.77 | 116 | 115 | 54.0-135 | | | 0.863 | 20 |
| n-Propylbenzene | 5.00 | 4.78 | 4.74 | 95.6 | 94.8 | 77.0-124 | | | 0.840 | 20 |
| Styrene | 5.00 | 4.92 | 4.75 | 98.4 | 95.0 | 73.0-130 | | | 3.52 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.46 | 4.45 | 89.2 | 89.0 | 75.0-125 | | | 0.224 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.77 | 4.83 | 95.4 | 96.6 | 65.0-130 | | | 1.25 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 5.19 | 5.13 | 104 | 103 | 69.0-132 | | | 1.16 | 20 |
| Tetrachloroethene | 5.00 | 4.80 | 4.80 | 96.0 | 96.0 | 72.0-132 | | | 0.000 | 20 |
| Toluene | 5.00 | 4.61 | 4.65 | 92.2 | 93.0 | 79.0-120 | | | 0.864 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 5.39 | 5.33 | 108 | 107 | 50.0-138 | | | 1.12 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 5.34 | 5.36 | 107 | 107 | 57.0-137 | | | 0.374 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 4.87 | 5.00 | 97.4 | 100 | 73.0-124 | | | 2.63 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.97 | 4.55 | 99.4 | 91.0 | 80.0-120 | | | 8.82 | 20 |
| Trichloroethene | 5.00 | 4.90 | 4.80 | 98.0 | 96.0 | 78.0-124 | | | 2.06 | 20 |
| Trichlorofluoromethane | 5.00 | 5.40 | 5.53 | 108 | 111 | 59.0-147 | | | 2.38 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 5.32 | 5.08 | 106 | 102 | 73.0-130 | | | 4.62 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 5.00 | 4.77 | 100 | 95.4 | 76.0-121 | | | 4.71 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.94 | 4.97 | 98.8 | 99.4 | 77.0-120 | | | 0.605 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.78 | 4.81 | 95.6 | 96.2 | 76.0-122 | | | 0.626 | 20 |
| Vinyl chloride | 5.00 | 4.99 | 4.67 | 99.8 | 93.4 | 67.0-131 | | | 6.63 | 20 |
| Xylenes, Total | 15.0 | 14.0 | 13.2 | 93.3 | 88.0 | 79.0-123 | | | 5.88 | 20 |
| *(S) Toluene-d8* | | | | *102* | *104* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *109* | *111* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *103* | *104* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4075758-1 05/31/24 07:50

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | 34.9 | J | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *58.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075758-2 05/31/24 08:10 • (LCSD) R4075758-3 05/31/24 08:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 829 | 966 | 111 | 129 | 50.0-150 | | | 15.3 | 20 |
| C22-C32 Hydrocarbons | 750 | 734 | 870 | 97.9 | 116 | 50.0-150 | | | 17.0 | 20 |
| *(S) o-Terphenyl* | | | | *73.0* | *77.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4077408-1 06/04/24 21:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *87.7* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4077408-2 06/04/24 21:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 17.9 | 71.6 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 15.3 | 61.2 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *56.8* | *18.0-148* | |

## L1740925-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-01 06/05/24 00:55 • (MS) R4077408-3 06/05/24 01:09 • (MSD) R4077408-4 06/05/24 01:22

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 29.3 | 11.5 | 31.0 | 32.2 | 66.9 | 71.0 | 5 | 50.0-150 | | | 3.77 | 20 |
| C22-C32 Hydrocarbons | 29.3 | 62.1 | 88.7 | 88.7 | 91.0 | 91.0 | 5 | 50.0-150 | | | 0.000 | 20 |
| *(S) o-Terphenyl* | | | | | *44.8* | *52.8* | | *18.0-148* | | | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract

## Method Blank (MB)

(MB) R4076823-1 06/03/24 17:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *85.3* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *73.7* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4076823-2 06/03/24 17:45

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.139 | 83.2 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.145 | 86.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *101* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *85.9* | *10.0-139* | |

## L1740713-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740713-02 06/03/24 18:32 • (MS) R4076823-3 06/03/24 18:41 • (MSD) R4076823-4 06/03/24 18:51

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.167 | U | 0.0775 | 0.115 | 46.4 | 68.9 | 1 | 10.0-160 | | J3 | 39.0 | 37 |
| PCB 1260 | 0.167 | U | 0.168 | 0.118 | 101 | 70.7 | 1 | 10.0-160 | P | | 35.0 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *62.9* | *77.6* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *63.5* | *76.9* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4082843-1 06/14/24 20:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *117* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *117* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4082843-2 06/14/24 20:38

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.206 | 123 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.219 | 131 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *126* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *123* | *10.0-139* | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/14/24 21:24 • (MS) R4082843-3 06/14/24 21:33 • (MSD) R4082843-4 06/14/24 21:43

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.201 | U | 0.588 | 0.389 | 293 | 195 | 1 | 10.0-160 | J5 P | J3 J5 P | 40.6 | 37 |
| PCB 1260 | 0.201 | U | 0.156 | 0.190 | 77.6 | 95.1 | 1 | 10.0-160 | P | P | 19.7 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *83.8* | *79.7* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *86.2* | *75.0* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4078735-2 06/06/24 10:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4078735-2 06/06/24 10:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *60.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *57.5* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *46.8* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *54.7* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *48.6* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *64.9* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.460 | 69.1 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.505 | 75.8 | 40.0-120 | |
| Anthracene | 0.666 | 0.520 | 78.1 | 42.0-120 | |
| Benzidine | 1.33 | 0.244 | 18.3 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.553 | 83.0 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.511 | 76.7 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.491 | 73.7 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.573 | 86.0 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.538 | 80.8 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.359 | 53.9 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.425 | 63.8 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.429 | 64.4 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.511 | 76.7 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.436 | 65.5 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.498 | 74.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.514 | 77.2 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.596 | 89.5 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.435 | 65.3 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.428 | 64.3 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.454 | 68.2 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.917 | 68.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.523 | 78.5 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.524 | 78.7 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.522 | 78.4 | 44.0-120 | |
| Fluorene | 0.666 | 0.470 | 70.6 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.480 | 72.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.375 | 56.3 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.373 | 56.0 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.427 | 64.1 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.640 | 96.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.369 | 55.4 | 23.0-120 | |
| Naphthalene | 0.666 | 0.379 | 56.9 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.347 | 52.1 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.338 | 50.8 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.458 | 68.8 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.428 | 64.3 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.491 | 73.7 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.559 | 83.9 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.567 | 85.1 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.508 | 76.3 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.522 | 78.4 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.498 | 74.8 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.561 | 84.2 | 40.0-120 | |
| Pyrene | 0.666 | 0.531 | 79.7 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.391 | 58.7 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.408 | 61.3 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.469 | 70.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.413 | 62.0 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.366 | 55.0 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.626 | 94.0 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.434 | 65.2 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.443 | 66.5 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.515 | 77.3 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.351 | 52.7 | 29.0-120 | |
| Phenol | 0.666 | 0.450 | 67.6 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.479 | 71.9 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *76.9* | *12.0-120* | |
| *(S) Phenol-d5* | | | *71.0* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *48.9* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *69.7* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *67.7* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *78.4* | *10.0-120* | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.798 | 0.00660 | 0.428 | 0.393 | 52.8 | 48.4 | 1 | 18.0-120 | | | 8.59 | 32 |
| Acenaphthylene | 0.798 | U | 0.437 | 0.417 | 54.7 | 52.3 | 1 | 25.0-120 | | | 4.56 | 32 |
| Anthracene | 0.798 | 0.00737 | 0.515 | 0.442 | 63.6 | 54.4 | 1 | 22.0-120 | | | 15.3 | 29 |
| Benzidine | 1.59 | U | U | U | 0.000 | 0.000 | 1 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.798 | 0.129 | 0.745 | 0.535 | 77.1 | 50.9 | 1 | 25.0-120 | | J3 | 32.7 | 29 |
| Benzo(b)fluoranthene | 0.798 | 0.206 | 0.829 | 0.529 | 78.0 | 40.5 | 1 | 19.0-122 | | J3 | 44.1 | 31 |
| Benzo(k)fluoranthene | 0.798 | 0.0623 | 0.579 | 0.438 | 64.8 | 47.1 | 1 | 23.0-120 | | | 27.8 | 30 |
| Benzo(g,h,i)perylene | 0.798 | 0.118 | 0.688 | 0.482 | 71.4 | 45.6 | 1 | 10.0-120 | | J3 | 35.2 | 33 |
| Benzo(a)pyrene | 0.798 | 0.151 | 0.762 | 0.521 | 76.5 | 46.3 | 1 | 24.0-120 | | J3 | 37.6 | 30 |
| Bis(2-chlorethoxy)methane | 0.798 | U | 0.224 | 0.262 | 28.0 | 32.8 | 1 | 10.0-120 | J | J | 15.5 | 34 |
| Bis(2-chloroethyl)ether | 0.798 | U | 0.273 | 0.313 | 34.1 | 39.2 | 1 | 10.0-120 | J | J | 13.7 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.798 | U | 0.235 | 0.307 | 29.4 | 38.4 | 1 | 10.0-120 | J | J | 26.5 | 40 |
| 4-Bromophenyl-phenylether | 0.798 | U | 0.511 | 0.486 | 64.0 | 60.8 | 1 | 27.0-120 | | | 5.13 | 30 |
| 2-Chloronaphthalene | 0.798 | U | 0.360 | 0.346 | 45.1 | 43.3 | 1 | 20.0-120 | | | 4.14 | 32 |
| 4-Chlorophenyl-phenylether | 0.798 | U | 0.481 | 0.447 | 60.2 | 55.9 | 1 | 24.0-120 | | | 7.35 | 29 |
| Chrysene | 0.798 | 0.193 | 0.819 | 0.554 | 78.4 | 45.1 | 1 | 21.0-120 | | J3 | 38.7 | 29 |
| Dibenz(a,h)anthracene | 0.798 | 0.0340 | 0.570 | 0.459 | 67.1 | 53.2 | 1 | 10.0-120 | | | 21.5 | 32 |
| 1,2-Dichlorobenzene | 0.798 | U | 0.231 | 0.291 | 29.0 | 36.4 | 1 | 10.0-120 | J | J | 22.8 | 38 |
| 1,3-Dichlorobenzene | 0.798 | U | 0.221 | 0.285 | 27.7 | 35.7 | 1 | 10.0-120 | J | J | 25.0 | 40 |
| 1,4-Dichlorobenzene | 0.798 | U | 0.245 | 0.315 | 30.6 | 39.5 | 1 | 10.0-120 | J | J | 25.2 | 39 |
| 3,3-Dichlorobenzidine | 1.59 | U | 0.773 | 0.773 | 48.5 | 48.5 | 1 | 10.0-120 | | | 0.000 | 34 |
| 2,4-Dinitrotoluene | 0.798 | U | 0.427 | 0.454 | 53.5 | 56.9 | 1 | 30.0-120 | | | 6.08 | 31 |

# WG2298678

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

# QUALITY CONTROL SUMMARY

L1740925-04,05,06,09,10,11,14,15

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.798 | U | 0.421 | 0.427 | 52.7 | 53.5 | 1 | 25.0-120 | | | 1.43 | 31 |
| Fluoranthene | 0.798 | 0.119 | 0.717 | 0.538 | 74.9 | 52.5 | 1 | 18.0-126 | | | 28.5 | 32 |
| Fluorene | 0.798 | 0.00824 | 0.461 | 0.419 | 56.7 | 51.4 | 1 | 25.0-120 | | | 9.68 | 30 |
| Hexachlorobenzene | 0.798 | U | 0.484 | 0.426 | 60.7 | 53.4 | 1 | 27.0-120 | | | 12.8 | 28 |
| Hexachloro-1,3-butadiene | 0.798 | U | 0.254 | 0.288 | 31.9 | 36.1 | 1 | 10.0-120 | J | J | 12.6 | 38 |
| Hexachlorocyclopentadiene | 0.798 | U | 0.0301 | 0.0651 | 3.77 | 8.16 | 1 | 10.0-120 | J J6 | J J3 J6 | 73.7 | 40 |
| Hexachloroethane | 0.798 | U | 0.214 | 0.305 | 26.8 | 38.3 | 1 | 10.0-120 | J | J | 35.1 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.798 | 0.129 | 0.793 | 0.566 | 83.2 | 54.7 | 1 | 10.0-120 | | J3 | 33.5 | 32 |
| Isophorone | 0.798 | U | 0.236 | 0.273 | 29.6 | 34.1 | 1 | 13.0-120 | J | J | 14.4 | 34 |
| Naphthalene | 0.798 | 0.0107 | 0.260 | 0.291 | 31.3 | 35.1 | 1 | 10.0-120 | | | 11.0 | 35 |
| Nitrobenzene | 0.798 | U | 0.191 | 0.248 | 23.9 | 31.1 | 1 | 10.0-120 | J | J | 26.0 | 36 |
| n-Nitrosodimethylamine | 0.798 | U | 0.163 | 0.212 | 20.4 | 26.5 | 1 | 10.0-127 | J | J | 26.0 | 40 |
| n-Nitrosodiphenylamine | 0.798 | U | 0.462 | 0.420 | 57.9 | 52.6 | 1 | 17.0-120 | | | 9.66 | 29 |
| n-Nitrosodi-n-propylamine | 0.798 | U | 0.248 | 0.293 | 31.1 | 36.7 | 1 | 10.0-120 | J | J | 16.6 | 37 |
| Phenanthrene | 0.798 | 0.0555 | 0.571 | 0.467 | 64.5 | 51.6 | 1 | 17.0-120 | | | 19.9 | 31 |
| Benzylbutyl phthalate | 0.798 | U | 0.534 | 0.471 | 66.9 | 59.0 | 1 | 23.0-120 | | | 12.6 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.798 | 0.103 | 0.664 | 0.540 | 70.4 | 54.8 | 1 | 17.0-126 | | | 20.6 | 30 |
| Di-n-butyl phthalate | 0.798 | U | 0.495 | 0.443 | 62.0 | 55.5 | 1 | 30.0-120 | | | 11.2 | 29 |
| Diethyl phthalate | 0.798 | U | 0.493 | 0.469 | 61.7 | 58.7 | 1 | 26.0-120 | | | 5.06 | 28 |
| Dimethyl phthalate | 0.798 | U | 0.428 | 0.405 | 53.7 | 50.8 | 1 | 25.0-120 | | J | 5.55 | 29 |
| Di-n-octyl phthalate | 0.798 | U | 0.540 | 0.504 | 67.7 | 63.1 | 1 | 21.0-123 | | | 6.99 | 29 |
| Pyrene | 0.798 | 0.153 | 0.744 | 0.537 | 73.9 | 48.0 | 1 | 16.0-121 | | J3 | 32.3 | 32 |
| 1,2,4-Trichlorobenzene | 0.798 | U | 0.269 | 0.296 | 33.7 | 37.0 | 1 | 12.0-120 | J | J | 9.48 | 37 |
| 4-Chloro-3-methylphenol | 0.798 | U | 0.406 | 0.359 | 50.9 | 45.0 | 1 | 15.0-120 | | J | 12.4 | 30 |
| 2-Chlorophenol | 0.798 | U | 0.269 | 0.330 | 33.7 | 41.3 | 1 | 15.0-120 | J | J | 20.3 | 37 |
| 2,4-Dichlorophenol | 0.798 | U | 0.336 | 0.341 | 42.1 | 42.7 | 1 | 20.0-120 | J | J | 1.44 | 31 |
| 2,4-Dimethylphenol | 0.798 | U | 0.302 | 0.305 | 37.8 | 38.3 | 1 | 10.0-120 | J | J | 1.20 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.798 | U | 0.523 | 0.494 | 65.5 | 61.9 | 1 | 10.0-120 | | | 5.74 | 39 |
| 2,4-Dinitrophenol | 0.798 | U | 0.451 | 0.372 | 56.6 | 46.6 | 1 | 10.0-121 | | J | 19.2 | 40 |
| 2-Nitrophenol | 0.798 | U | 0.262 | 0.330 | 32.8 | 41.3 | 1 | 12.0-120 | J | J | 23.0 | 39 |
| 4-Nitrophenol | 0.798 | U | 0.511 | 0.483 | 64.0 | 60.5 | 1 | 10.0-137 | | | 5.63 | 32 |
| Pentachlorophenol | 0.798 | U | 0.409 | 0.341 | 51.2 | 42.7 | 1 | 10.0-160 | | J | 18.2 | 31 |
| Phenol | 0.798 | U | 0.277 | 0.333 | 34.8 | 41.8 | 1 | 12.0-120 | J | J | 18.3 | 38 |
| 2,4,6-Trichlorophenol | 0.798 | U | 0.432 | 0.411 | 54.1 | 51.5 | 1 | 19.0-120 | | | 4.91 | 32 |
| *(S) 2-Fluorophenol* | | | | | *34.5* | *43.7* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *37.2* | *43.9* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *22.8* | *30.5* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *45.1* | *44.8* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *59.5* | *54.1* | | *10.0-127* | | | | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| *(S) p-Terphenyl-d14* | | | | | *59.8* | *54.0* | | *10.0-120* | | | | |

## Method Blank (MB)

(MB) R4078668-2 06/06/24 18:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

# QUALITY CONTROL SUMMARY

L1740925-16,20,21,22

## Method Blank (MB)

(MB) R4078668-2 06/06/24 18:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *74.3* | | | *12.0-120* |
| *(S) Phenol-d5* | *67.3* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *61.6* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *64.3* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *61.9* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *68.5* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078668-1 06/06/24 18:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.396 | 59.5 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.410 | 61.6 | 40.0-120 | |
| Anthracene | 0.666 | 0.404 | 60.7 | 42.0-120 | |
| Benzidine | 1.33 | 0.488 | 36.7 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.423 | 63.5 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.418 | 62.8 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.415 | 62.3 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.409 | 61.4 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.425 | 63.8 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.351 | 52.7 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.430 | 64.6 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078668-1 06/06/24 18:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.383 | 57.5 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.436 | 65.5 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.389 | 58.4 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.446 | 67.0 | 40.0-120 | |
| Chrysene | 0.666 | 0.411 | 61.7 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.413 | 62.0 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.379 | 56.9 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.377 | 56.6 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.371 | 55.7 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.824 | 62.0 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.462 | 69.4 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.456 | 68.5 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.438 | 65.8 | 44.0-120 | |
| Fluorene | 0.666 | 0.421 | 63.2 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.422 | 63.4 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.373 | 56.0 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.300 | 45.0 | 15.0-120 | J |
| Hexachloroethane | 0.666 | 0.399 | 59.9 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.404 | 60.7 | 45.0-120 | |
| Isophorone | 0.666 | 0.354 | 53.2 | 23.0-120 | |
| Naphthalene | 0.666 | 0.329 | 49.4 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.357 | 53.6 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.289 | 43.4 | 10.0-125 | J |
| n-Nitrosodiphenylamine | 0.666 | 0.406 | 61.0 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.396 | 59.5 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.404 | 60.7 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.457 | 68.6 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.437 | 65.6 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.411 | 61.7 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.434 | 65.2 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.427 | 64.1 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.448 | 67.3 | 40.0-120 | |
| Pyrene | 0.666 | 0.428 | 64.3 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.354 | 53.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.373 | 56.0 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.432 | 64.9 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.378 | 56.8 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.437 | 65.6 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.490 | 73.6 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.405 | 60.8 | 10.0-120 | |

# QUALITY CONTROL SUMMARY

L1740925-16,20,21,22

## Laboratory Control Sample (LCS)

(LCS) R4078668-1 06/06/24 18:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.411 | 61.7 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.390 | 58.6 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.359 | 53.9 | 29.0-120 | |
| Phenol | 0.666 | 0.412 | 61.9 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.414 | 62.2 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *75.2* | *12.0-120* | |
| *(S) Phenol-d5* | | | *65.6* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *51.7* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *65.5* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *63.4* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *65.8* | *10.0-120* | |

## L1740925-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-22 06/06/24 21:13 • (MS) R4078668-3 06/06/24 21:33 • (MSD) R4078668-4 06/06/24 21:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.887 | U | 0.487 | 0.537 | 55.0 | 60.5 | 2 | 18.0-120 | | | 9.65 | 32 |
| Acenaphthylene | 0.887 | 0.0194 | 0.502 | 0.566 | 54.4 | 61.7 | 2 | 25.0-120 | | | 12.0 | 32 |
| Anthracene | 0.887 | 0.0219 | 0.552 | 0.586 | 59.7 | 63.6 | 2 | 22.0-120 | | | 6.10 | 29 |
| Benzidine | 1.78 | U | U | 0.212 | 0.000 | 12.0 | 2 | 10.0-120 | J6 | J J3 | 200 | 40 |
| Benzo(a)anthracene | 0.887 | 0.168 | 0.662 | 0.771 | 55.7 | 67.9 | 2 | 25.0-120 | | | 15.1 | 29 |
| Benzo(b)fluoranthene | 0.887 | 0.304 | 0.669 | 0.787 | 41.1 | 54.4 | 2 | 19.0-122 | | | 16.1 | 31 |
| Benzo(k)fluoranthene | 0.887 | 0.0940 | 0.573 | 0.648 | 54.0 | 62.4 | 2 | 23.0-120 | | | 12.3 | 30 |
| Benzo(g,h,i)perylene | 0.887 | 0.158 | 0.530 | 0.613 | 42.0 | 51.4 | 2 | 10.0-120 | | | 14.5 | 33 |
| Benzo(a)pyrene | 0.887 | 0.211 | 0.654 | 0.752 | 50.0 | 61.0 | 2 | 24.0-120 | | | 13.9 | 30 |
| Bis(2-chlorethoxy)methane | 0.887 | U | 0.419 | 0.447 | 47.3 | 50.5 | 2 | 10.0-120 | J | J | 6.47 | 34 |
| Bis(2-chloroethyl)ether | 0.887 | U | 0.453 | 0.494 | 51.1 | 55.7 | 2 | 10.0-120 | J | J | 8.74 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.887 | U | 0.382 | 0.418 | 43.1 | 47.1 | 2 | 10.0-120 | J | J | 9.02 | 40 |
| 4-Bromophenyl-phenylether | 0.887 | U | 0.580 | 0.617 | 65.4 | 69.6 | 2 | 27.0-120 | J | J | 6.25 | 30 |
| 2-Chloronaphthalene | 0.887 | U | 0.458 | 0.506 | 51.7 | 57.1 | 2 | 20.0-120 | | | 9.97 | 32 |
| 4-Chlorophenyl-phenylether | 0.887 | U | 0.577 | 0.626 | 65.1 | 70.6 | 2 | 24.0-120 | J | J | 8.21 | 29 |
| Chrysene | 0.887 | 0.260 | 0.668 | 0.780 | 45.9 | 58.6 | 2 | 21.0-120 | | | 15.5 | 29 |
| Dibenz(a,h)anthracene | 0.887 | 0.0447 | 0.522 | 0.572 | 53.8 | 59.4 | 2 | 10.0-120 | | | 9.04 | 32 |
| 1,2-Dichlorobenzene | 0.887 | U | 0.390 | 0.439 | 44.0 | 49.5 | 2 | 10.0-120 | J | J | 11.9 | 38 |
| 1,3-Dichlorobenzene | 0.887 | U | 0.379 | 0.402 | 42.8 | 45.3 | 2 | 10.0-120 | J | J | 5.81 | 40 |
| 1,4-Dichlorobenzene | 0.887 | U | 0.379 | 0.405 | 42.8 | 45.6 | 2 | 10.0-120 | J | J | 6.47 | 39 |
| 3,3-Dichlorobenzidine | 1.78 | U | 1.12 | 1.18 | 62.9 | 66.5 | 2 | 10.0-120 | | | 5.58 | 34 |
| 2,4-Dinitrotoluene | 0.887 | U | 0.613 | 0.672 | 69.1 | 75.8 | 2 | 30.0-120 | J | J | 9.15 | 31 |

# QUALITY CONTROL SUMMARY

L1740925-16,20,21,22

## L1740925-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-22 06/06/24 21:13 • (MS) R4078668-3 06/06/24 21:33 • (MSD) R4078668-4 06/06/24 21:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.887 | U | 0.576 | 0.632 | 64.9 | 71.2 | 2 | 25.0-120 | J | J | 9.29 | 31 |
| Fluoranthene | 0.887 | 0.219 | 0.721 | 0.841 | 56.6 | 70.2 | 2 | 18.0-126 | | | 15.4 | 32 |
| Fluorene | 0.887 | U | 0.541 | 0.590 | 61.0 | 66.6 | 2 | 25.0-120 | | | 8.74 | 30 |
| Hexachlorobenzene | 0.887 | U | 0.593 | 0.596 | 66.9 | 67.2 | 2 | 27.0-120 | J | J | 0.449 | 28 |
| Hexachloro-1,3-butadiene | 0.887 | U | 0.483 | 0.540 | 54.5 | 60.8 | 2 | 10.0-120 | J | J | 11.0 | 38 |
| Hexachlorocyclopentadiene | 0.887 | U | 0.0501 | 0.0636 | 5.65 | 7.17 | 2 | 10.0-120 | J J6 | J J6 | 23.7 | 40 |
| Hexachloroethane | 0.887 | U | 0.389 | 0.427 | 43.8 | 48.2 | 2 | 10.0-120 | J | J | 9.49 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.887 | 0.159 | 0.574 | 0.638 | 46.8 | 54.1 | 2 | 10.0-120 | | | 10.6 | 32 |
| Isophorone | 0.887 | U | 0.438 | 0.459 | 49.4 | 51.8 | 2 | 13.0-120 | J | J | 4.76 | 34 |
| Naphthalene | 0.887 | U | 0.406 | 0.434 | 45.8 | 48.9 | 2 | 10.0-120 | | | 6.68 | 35 |
| Nitrobenzene | 0.887 | U | 0.403 | 0.429 | 45.5 | 48.3 | 2 | 10.0-120 | J | J | 6.10 | 36 |
| n-Nitrosodimethylamine | 0.887 | U | 0.326 | 0.295 | 36.7 | 33.3 | 2 | 10.0-127 | J | J | 9.89 | 40 |
| n-Nitrosodiphenylamine | 0.887 | U | 0.525 | 0.572 | 59.2 | 64.5 | 2 | 17.0-120 | J | J | 8.53 | 29 |
| n-Nitrosodi-n-propylamine | 0.887 | U | 0.411 | 0.446 | 46.4 | 50.3 | 2 | 10.0-120 | J | J | 8.10 | 37 |
| Phenanthrene | 0.887 | 0.0714 | 0.578 | 0.642 | 57.2 | 64.4 | 2 | 17.0-120 | | | 10.5 | 31 |
| Benzylbutyl phthalate | 0.887 | U | 0.610 | 0.645 | 68.8 | 72.7 | 2 | 23.0-120 | J | J | 5.53 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.887 | U | 0.585 | 0.638 | 66.0 | 72.0 | 2 | 17.0-126 | J | J | 8.73 | 30 |
| Di-n-butyl phthalate | 0.887 | U | 0.574 | 0.596 | 64.8 | 67.2 | 2 | 30.0-120 | J | J | 3.65 | 29 |
| Diethyl phthalate | 0.887 | U | 0.585 | 0.601 | 66.0 | 67.8 | 2 | 26.0-120 | J | J | 2.70 | 28 |
| Dimethyl phthalate | 0.887 | U | 0.549 | 0.580 | 61.9 | 65.4 | 2 | 25.0-120 | J | J | 5.44 | 29 |
| Di-n-octyl phthalate | 0.887 | U | 0.638 | 0.676 | 72.0 | 76.2 | 2 | 21.0-123 | J | J | 5.69 | 29 |
| Pyrene | 0.887 | 0.235 | 0.670 | 0.791 | 49.1 | 62.7 | 2 | 16.0-121 | | | 16.5 | 32 |
| 1,2,4-Trichlorobenzene | 0.887 | U | 0.426 | 0.479 | 48.0 | 54.1 | 2 | 12.0-120 | J | J | 11.8 | 37 |
| 4-Chloro-3-methylphenol | 0.887 | U | 0.557 | 0.577 | 62.8 | 65.1 | 2 | 15.0-120 | J | J | 3.53 | 30 |
| 2-Chlorophenol | 0.887 | U | 0.481 | 0.510 | 54.2 | 57.5 | 2 | 15.0-120 | J | J | 5.93 | 37 |
| 2,4-Dichlorophenol | 0.887 | U | 0.494 | 0.573 | 55.7 | 64.6 | 2 | 20.0-120 | J | J | 14.8 | 31 |
| 2,4-Dimethylphenol | 0.887 | U | 0.556 | 0.589 | 62.7 | 66.4 | 2 | 10.0-120 | J | J | 5.83 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.887 | U | 0.473 | 0.506 | 53.3 | 57.1 | 2 | 10.0-120 | J | J | 6.82 | 39 |
| 2,4-Dinitrophenol | 0.887 | U | 0.399 | 0.378 | 45.0 | 42.6 | 2 | 10.0-121 | J | J | 5.50 | 40 |
| 2-Nitrophenol | 0.887 | U | 0.499 | 0.552 | 56.3 | 62.2 | 2 | 12.0-120 | J | J | 9.91 | 39 |
| 4-Nitrophenol | 0.887 | U | 0.576 | 0.625 | 64.9 | 70.5 | 2 | 10.0-137 | J | J | 8.23 | 32 |
| Pentachlorophenol | 0.887 | U | 0.618 | 0.641 | 69.7 | 72.3 | 2 | 10.0-160 | J | J | 3.61 | 31 |
| Phenol | 0.887 | U | 0.449 | 0.465 | 50.6 | 52.4 | 2 | 12.0-120 | J | J | 3.51 | 38 |
| 2,4,6-Trichlorophenol | 0.887 | U | 0.544 | 0.598 | 61.3 | 67.5 | 2 | 19.0-120 | J | J | 9.59 | 32 |
| *(S) 2-Fluorophenol* | | | | | *59.0* | *61.9* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *53.2* | *57.8* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *42.8* | *48.8* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *53.0* | *59.6* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *66.7* | *67.5* | | *10.0-127* | | | | |

## L1740925-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-22 06/06/24 21:13 • (MS) R4078668-3 06/06/24 21:33 • (MSD) R4078668-4 06/06/24 21:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *66.9* | *67.2* | | *10.0-120* | | | | |

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure.

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to: Josh Osborne

Email To: josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description: AB&I Redevelopment

City/State Collected: Oakland, CA

Please Circle: (PT) MT CT ET

Phone: 415-967-6000

Client Project # Roux Associates Inc

Lab Project # ROUXOCA-CA

Collected by (print): Dylan B

Site/Facility ID # ABI Foundry

P.O. # 1793,0030S000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote # P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH 10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-1.0 | Grab | SS | 1 | 5/23/24 | 1545 | 2-4 | O | O | ● | ● | ● | | | |
| G/UC-B4-1-2.0 | | SS | 2 | | 1550 | | O | O | ● | ● | ● | ● | | |
| G/UC-B4-1-3.0 | | SS | 3 | | 1600 | | ● | ● | ● | O | ● | O | | |
| G/UC-B4-1-4.0 | | SS | 4 | | 1605 | | O | O | O | O | O | O | | |
| G/UC-B4-1-5.0 | | SS | 5 | | 1613 | | ● | ● | O | O | O | ● | | |
| G/UC-B4-1-8.0 | | SS | 8 | | 1605 | | O | O | O | O | O | O | | |
| G/UC-B4-1-10.0 | ↓ | SS | 10 | ↓ | 1615 | ↓ | O | O | O | O | O | ● | | |
| SVP-45-8-5.0 | Grab | SS | 5 | 5/28/24 | 1110 | 3 | ● | ● | | | | ● | | -01 |
| SVP-06-8-5.0 | Grab | SS | 5 | 5/28/24 | 935 | 3 | ● | ● | | | | ● | | -02 |
| EB-052824 | — | ~~WW~~ SS DO | — | 5/28/24 | 1520 | 9 | ● | ● | ● | | | ● | | -03 |

Chain of Custody Page 1 of 6

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # L740925

Table # G159

Acctnum: ROUXOCA

Template: T253291

Prelogin: P1076441

PM: 3500 - Jennifer Gambill

PB:

Shipped Via: FedEX Ground

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

Remarks:
● = Analyze
O = Hold

pH _____ Temp _____

Flow _____ Other _____

PH-10BDH5021 TRC-2352362
CR6-20221V

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

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

| | | | | |
|---|---|---|---|---|
| Relinquished by: (Signature) | Date: 5/28/24 | Time: 1513 | Received by: (Signature) | Trip Blank Received: (Yes) No; HCL / MeoH; TBR: 2 |
| Relinquished by: (Signature) | Date: 5/28/24 | Time: 16:30 | Received by: (Signature) SWA CARGO | Temp: °C Bottles Received: 122 |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) Ashley Bonte | Date: 05/29/2024 Time: 0800 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland. CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to:
Josh Osborne

Email To:
josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description:
AB&I Redevelopment

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: 415-967-6000

Client Project #
Roux Associates, Inc.

Lab Project #
ROUXOCA-CA

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately
Packed on Ice N ___ Y X

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

Quote #
P1076441

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-1.0 | Grab | SS | 1.0 | 05/28/24 | 0845 | 3 | ○ | ○ | ● | ● | ● | | | -04 |
| G/BS-D4-1-2.0 | Grab | SS | 2.0 | | 0850 | 4 | ○ | ○ | ● | ○ | ● | ● | | -05 |
| G/BS-D4-1-3.0 | Grab | SS | 3.0 | | 0855 | 4 | ● | ● | ● | ○ | ● | ● | | -06 |
| G/BS-D4-1-4.0 | Grab | SS | 4.0 | | 0900 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -07 |
| G/BS-D4-1-5.0 | Grab | SS | 5.0 | | 0920. | 4 | ● | ● | ○ | ○ | ○ | ● | | -08 |
| | | SS | | | | | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 2 of 4

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740925
Table #
Acctnum: ROUXOCA
Template: T253291
Prelogin: P1076441
PM: 3500 - Jennifer Gambill
PB:
Shipped Via: FedEX Ground

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

Remarks: ● = ANALYZE ○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/28/24 | 1515. | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 52624 | 18:30 | SWACAR60 | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | Ashley Boatw | 05/29/2024 0800 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately
Packed on Ice N ___ Y X

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

Quote #
P1076441

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-E2-1-1.0 | Grab | SS | 1.0 | 05/28/24 | 1145 | 3 | ○ | ○ | ● | ● | ● | | | -09 |
| G-E2-1-2.0 | Grab | SS | 2.0 | | 1155 | 4 | ○ | ○ | ● | ○ | ● | ● | | -10 |
| G-E2-1-3.0 | Grab | SS | 3.0 | | 1205 | 4 | ● | ● | ● | ○ | ● | ● | | -11 |
| G-E2-1-4.0 | Grab | SS | 4.0 | | 1215 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -12 |
| G-E2-1-5.0 | Grab | SS | 5.0 | | 1220 | 4 | ● | ● | ○ | ○ | ○ | ● | | -13 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 3 of 6

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1740925

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/28/24 | 1515 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5.28.24 | 1630 | SWACARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: NCF / OK |
| | | | Ashley Barker | 05/29/2024 | 0800 | | |

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland. CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to: **Josh Osborne**

Email To: josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # Roux Associates, Inc.

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Aguayo/D. Bailey

Site/Facility ID # AB&I Foundry

P.O. # 1793.0030S000

Collected by (signature): [signature]

Immediately
Packed on Ice N ___ Y X

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

Quote # P1076441

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 4 of 6

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L740925

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-E3-1-1.0 | Grab | SS | 1.0 | 05/28/24 | 1005 | 3 | ○ | ○ | ● | ● | ● | | | -14 |
| G-E3-1-2.0 | Grab | SS | 2.0 | | 1010 | 4 | ○ | ○ | ● | ● | ● | ● | | -15 |
| G-E3-1-3.0 | Grab | SS | 3.0 | | 1020 | 4 | ● | ● | ● | ○ | ● | ● | | -16 |
| G-E3-1-4.0 | Grab | SS | 4.0 | | 1030 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -17 |
| G-E3-1-5.0 | Grab | SS | 5.0 | | 1040 | 4 | ● | ● | ○ | ○ | ○ | ● | | -18 |
| TB-052824. | ↓ | ~~SS~~ W | — | ↓ | | 2 | | | | | | X | | -19 |
| EB-052824. | ↓ | W | — | SWA | | | X | X | X | | | X | | |

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

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # [signature]

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| [signature] | 05/28/24 | 1815 | [signature] | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| [signature] | 5:28:24 | 18:30 | SWA CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | Ashly Bank | 05/29/2024 0800 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**Josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

**Quote #**
P1076441

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 5 of 6

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # LT40925

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-F1-1-1.0 | Grab | SS | 1.0 | 05/28/24 | 1400 | 4 | ○ | ○ | ● | ● | ● | | | -20 |
| G-F1-1-2.0 | Grab | SS | 2.0 | | 1410 | 4 | ○ | ○ | ● | ● | ● | ● | | -21 |
| G-F1-1-3.0 | Grab | SS | 3.0 | | 1420 | 4 | ● | ● | ● | ○ | ● | ● | | -22 |
| G-F1-1-4.0 | Grab | SS | 4.0 | | 1430 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -23 |
| G-F1-1-5.0 | Grab | SS | 5.0 | | 1440 | 4 | ● | ● | ○ | ○ | ○ | ● | | -24 |
| | | SS | | | | | | | | | | | | |

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

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| | 5/28/24 | 1515 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| | 5.29.24 | 15:30 | SWA CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | Ashley Bouck | 05/29/2024 0800 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # ABI

Lab Project # **ROUXOCA-CA**

Collected by (print): Dylan B

Site/Facility ID # Page 1

P.O. # Page 1

Collected by (signature):

Immediately Packed on Ice N___ Y___

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

Quote # Page 1

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAERLVI 40mlAmb-HCl-BT | GROCA 40mlAmb HCl | M6010CAM17 250mlHDPE-HNO3 | M6010DCAM17 (FF) 250mlHDPE-HNO3 | V8260 40mlAmb-HCl | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | L2 | L2 | | | | | | | | |
| P-06 | Grab | GW | ~ | 5/28/24 | 1408 | 9 | X | X | X | X | X | | | | | | | -25 |
| P-08 | | GW | ~ | 5/28/24 | 1300 | 9 | X | X | X | X | X | | | | | | | -26 |
| DUP-03 | | GW | ~ | 5/28/24 | 1200 | 9 | X | X | X | X | X | | | | | | | -27 |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | DI | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |
| | | GW | | | | 9 | X | X | X | X | X | | | | | | | |

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L740925

Table #

Acctnum: **ROUXOCA**
Template: **T253289**
Prelogin: **P1076384**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

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

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 5/28/24 | 1515 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/28/24 | 1730 | SWA GR60 | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | | 05/29/24 0800 | |

LT40925

| Tracking Numbers | Temperature |
|---|---|
| SWA | EDA6 1.2 = 1.3 |
| SWA | EDA6 2.3 = 2.4 |
| | |
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Ashley Baxter
Name

05/29/2024
Date

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1741416 |
| Samples Received: | 05/30/2024 |
| Project Number: | ROUX ASSOCIATES.INC |
| Description: | AB&I Redevelopment |
| Site: | AB&I FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## SVP-10-8-5.0 L1741416-01 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 07:58 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297459 | 25 | 05/29/24 07:58 | 06/03/24 17:54 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 07:58 | 06/04/24 20:03 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 1 | 06/05/24 12:40 | 06/06/24 02:04 | JAS | Mt. Juliet, TN |

## SVP-25-8-8.0 L1741416-02 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 08:32 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297459 | 25 | 05/29/24 08:32 | 06/03/24 18:14 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 08:32 | 06/04/24 20:32 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 1 | 06/05/24 12:40 | 06/06/24 02:18 | JAS | Mt. Juliet, TN |

## SVP-36-5-5.0 L1741416-03 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 09:15 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297459 | 25 | 05/29/24 09:15 | 06/03/24 18:33 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 09:15 | 06/04/24 20:54 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 50 | 06/05/24 12:40 | 06/06/24 11:11 | JAS | Mt. Juliet, TN |

## SVP-36-8-8.0 L1741416-04 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 09:11 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300304 | 250 | 05/29/24 09:11 | 06/07/24 01:26 | AV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 09:11 | 06/04/24 21:14 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 20 | 06/05/24 12:40 | 06/06/24 11:25 | JAS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 5 | 06/05/24 12:40 | 06/06/24 03:45 | JAS | Mt. Juliet, TN |

## SVP-61-4-4.0 L1741416-05 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 11:57 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300918 | 25 | 05/29/24 11:57 | 06/07/24 19:44 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 11:57 | 06/04/24 21:42 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299427 | 1 | 06/05/24 12:40 | 06/06/24 02:33 | JAS | Mt. Juliet, TN |

## SVP-62-4-4.0 L1741416-06 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 11:20 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 41.5 | 05/29/24 11:20 | 06/04/24 01:41 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1.66 | 05/29/24 11:20 | 06/04/24 22:11 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 1 | 06/06/24 09:41 | 06/06/24 20:46 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## EB-052924 L1741416-07 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| J. AGUAYO/ D. BAILEY | 05/29/24 14:50 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2296182 | 1 | 06/03/24 14:38 | 06/04/24 13:30 | NDL | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2308134 | 1 | 06/22/24 09:37 | 07/02/24 14:41 | LD | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2308134 | 1 | 06/22/24 09:37 | 07/02/24 18:39 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299053 | 1 | 06/05/24 14:14 | 06/05/24 14:14 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2299010 | 1 | 06/05/24 22:54 | 06/05/24 22:54 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296791 | 1 | 06/01/24 19:41 | 06/02/24 13:25 | DMG | Mt. Juliet, TN |

## TB-052924 L1741416-08 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| J. AGUAYO/ D. BAILEY | 05/29/24 12:00 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2299010 | 1 | 06/05/24 23:13 | 06/05/24 23:13 | ADM | Mt. Juliet, TN |

## G-G1-1-1.0 L1741416-12 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| J. AGUAYO/ D. BAILEY | 05/29/24 13:30 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296379 | 1 | 05/31/24 14:10 | 06/01/24 14:55 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297323 | 1 | 06/05/24 13:32 | 06/08/24 10:14 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2306105 | 25 | 05/29/24 13:30 | 06/16/24 13:58 | NCD | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298713 | 1 | 06/05/24 11:42 | 06/05/24 23:28 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 10 | 06/06/24 07:40 | 06/08/24 01:43 | DSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 2 | 06/06/24 07:40 | 06/06/24 22:14 | DSH | Mt. Juliet, TN |

## G-G1-1-2.0 L1741416-13 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| J. AGUAYO/ D. BAILEY | 05/29/24 13:35 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296379 | 1 | 05/31/24 14:10 | 06/01/24 14:57 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297407 | 1 | 06/04/24 23:20 | 06/06/24 00:23 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297407 | 5 | 06/04/24 23:20 | 06/06/24 18:24 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2306105 | 25 | 05/29/24 13:35 | 06/16/24 14:20 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 13:35 | 06/04/24 22:30 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303717 | 1 | 06/12/24 15:57 | 06/12/24 19:55 | JAS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298713 | 1 | 06/05/24 11:42 | 06/05/24 23:37 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301376 | 1 | 06/10/24 18:28 | 06/11/24 21:34 | ALM | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301376 | 5 | 06/10/24 18:28 | 06/12/24 13:36 | ALM | Mt. Juliet, TN |

## G-G1-1-3.0 L1741416-14 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| J. AGUAYO/ D. BAILEY | 05/29/24 13:40 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296616 | 1 | 06/01/24 10:51 | 06/01/24 11:02 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296379 | 1 | 05/31/24 14:10 | 06/01/24 15:00 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297407 | 1 | 06/04/24 23:20 | 06/06/24 00:25 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 29 | 05/29/24 13:40 | 06/04/24 02:00 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1.16 | 05/29/24 13:40 | 06/04/24 22:49 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 50 | 06/06/24 09:41 | 06/06/24 23:18 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 10 | 06/10/24 16:37 | 06/11/24 05:22 | ALM | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-G1-1-4.0 L1741416-15 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 13:50 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2303727 | 1 | 06/13/24 07:14 | 06/13/24 07:19 | KDW | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 20:13 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2306105 | 25 | 05/29/24 13:50 | 06/16/24 14:41 | NCD | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303717 | 20 | 06/12/24 15:57 | 06/12/24 22:33 | JAS | Mt. Juliet, TN |

## G-G1-1-5.0 L1741416-16 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 14:00 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 25 | 05/29/24 14:00 | 06/04/24 02:20 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 14:00 | 06/04/24 23:12 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 20 | 06/06/24 09:41 | 06/06/24 21:55 | JAS | Mt. Juliet, TN |

## G-G2-1-1.0 L1741416-17 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 11:50 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296379 | 1 | 05/31/24 14:10 | 06/01/24 15:02 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297097 | 1 | 06/04/24 12:37 | 06/05/24 00:06 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2307455 | 28.7 | 05/29/24 11:50 | 06/18/24 18:51 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2300315 | 1 | 06/05/24 11:42 | 06/10/24 12:20 | HLA | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 2 | 06/06/24 07:40 | 06/06/24 22:34 | DSH | Mt. Juliet, TN |

## G-G2-1-2.0 L1741416-18 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 11:55 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296379 | 1 | 05/31/24 14:10 | 06/01/24 13:42 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297407 | 1 | 06/04/24 23:20 | 06/06/24 00:27 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2306105 | 25 | 05/29/24 11:55 | 06/16/24 15:02 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 11:55 | 06/04/24 23:32 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303717 | 1 | 06/12/24 15:57 | 06/12/24 20:09 | JAS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298713 | 1 | 06/05/24 11:42 | 06/05/24 23:56 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 1 | 06/06/24 07:40 | 06/06/24 19:31 | DSH | Mt. Juliet, TN |

## G-G2-1-3.0 L1741416-19 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 12:00 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296379 | 1 | 05/31/24 14:10 | 06/01/24 13:44 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297407 | 1 | 06/04/24 23:20 | 06/06/24 00:28 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 111 | 05/29/24 12:00 | 06/05/24 07:24 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 8 | 05/29/24 12:00 | 06/05/24 01:25 | JBE | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2299808 | 8.88 | 05/29/24 12:00 | 06/07/24 02:40 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 500 | 06/06/24 09:41 | 06/06/24 23:04 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 10 | 06/10/24 16:37 | 06/11/24 06:08 | ALM | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-G2-1-4.0 L1741416-20 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 12:05 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2301199 | 1 | 06/08/24 10:58 | 06/08/24 11:13 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2304258 | 1 | 06/13/24 13:24 | 06/14/24 09:48 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2305335 | 1 | 06/18/24 22:41 | 06/19/24 09:46 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2306312 | 25 | 05/29/24 12:05 | 06/17/24 11:02 | KSD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303955 | 2 | 05/29/24 12:05 | 06/12/24 23:48 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303717 | 50 | 06/12/24 15:57 | 06/12/24 21:35 | JAS | Mt. Juliet, TN |

## G-G2-1-5.0 L1741416-21 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 12:10 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 25 | 05/29/24 12:10 | 06/04/24 02:39 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298438 | 1 | 05/29/24 12:10 | 06/04/24 23:54 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 20 | 06/06/24 09:41 | 06/06/24 22:09 | JAS | Mt. Juliet, TN |

## G-G3-1-1.0 L1741416-22 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 10:40 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296693 | 1 | 06/01/24 11:00 | 06/02/24 23:53 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 19:23 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/08/24 18:03 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2300315 | 2 | 06/05/24 11:42 | 06/08/24 00:42 | LTB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 2 | 06/06/24 07:40 | 06/06/24 19:51 | DSH | Mt. Juliet, TN |

## G-G3-1-2.0 L1741416-23 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 10:45 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296693 | 1 | 06/01/24 11:00 | 06/03/24 00:00 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 19:26 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 10:45 | 06/05/24 04:29 | JAH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2300315 | 2 | 06/05/24 11:42 | 06/08/24 00:32 | LTB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 1 | 06/10/24 16:37 | 06/11/24 02:16 | ALM | Mt. Juliet, TN |

## G-G3-1-3.0 L1741416-24 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 10:50 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296693 | 1 | 06/01/24 11:00 | 06/03/24 00:02 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 19:30 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 25 | 05/29/24 10:50 | 06/04/24 06:58 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 10:50 | 06/05/24 04:48 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 1 | 06/06/24 09:41 | 06/06/24 20:18 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 1 | 06/10/24 16:37 | 06/11/24 02:37 | ALM | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-G3-1-5.0 L1741416-26 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 11:05 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 25 | 05/29/24 11:05 | 06/04/24 07:18 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 11:05 | 06/05/24 05:07 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 1 | 06/06/24 09:41 | 06/06/24 18:54 | JAS | Mt. Juliet, TN |

## G/BS-F4-1-1.0 L1741416-27 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 09:30 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296617 | 1 | 06/01/24 10:38 | 06/01/24 10:49 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296693 | 1 | 06/01/24 11:00 | 06/03/24 00:05 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 17:35 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/08/24 18:05 | ZSA | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 5 | 06/05/24 14:42 | 06/08/24 17:58 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298713 | 1 | 06/05/24 11:42 | 06/06/24 00:24 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299140 | 2 | 06/06/24 07:40 | 06/06/24 23:15 | DSH | Mt. Juliet, TN |

## G/BS-F4-1-2.0 L1741416-28 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 09:35 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296618 | 1 | 06/01/24 10:16 | 06/01/24 10:34 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296693 | 1 | 06/01/24 11:00 | 06/03/24 00:07 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 17:38 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 5 | 06/05/24 14:42 | 06/08/24 18:00 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 09:35 | 06/05/24 05:26 | JAH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2307723 | 1 | 06/19/24 07:55 | 06/20/24 02:07 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 2 | 06/10/24 16:37 | 06/11/24 03:39 | ALM | Mt. Juliet, TN |

## G/BS-F4-1-3.0 L1741416-29 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 09:45 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296618 | 1 | 06/01/24 10:16 | 06/01/24 10:34 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296691 | 1 | 06/01/24 11:13 | 06/02/24 21:26 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 17:41 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 25 | 05/29/24 09:45 | 06/04/24 07:37 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 09:45 | 06/05/24 05:45 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 1 | 06/06/24 09:41 | 06/06/24 20:04 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 1 | 06/10/24 16:37 | 06/11/24 01:15 | ALM | Mt. Juliet, TN |

## G/BS-F4-1-5.0 L1741416-31 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 10:05 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296618 | 1 | 06/01/24 10:16 | 06/01/24 10:34 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 25 | 05/29/24 10:05 | 06/04/24 07:56 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 10:05 | 06/05/24 06:04 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 1 | 06/06/24 09:41 | 06/06/24 19:08 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-F2-1-1.0 L1741416-32 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 08:00 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296618 | 1 | 06/01/24 10:16 | 06/01/24 10:34 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296691 | 1 | 06/01/24 11:13 | 06/02/24 21:29 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 17:44 | JTM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298869 | 1 | 06/05/24 14:12 | 06/05/24 23:39 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299143 | 1 | 06/06/24 10:28 | 06/07/24 19:26 | DSH | Mt. Juliet, TN |

## G-F2-1-2.0 L1741416-33 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 08:10 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296618 | 1 | 06/01/24 10:16 | 06/01/24 10:34 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296691 | 1 | 06/01/24 11:13 | 06/02/24 21:31 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 17:48 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 08:10 | 06/05/24 06:23 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300243 | 20 | 05/29/24 08:10 | 06/07/24 01:25 | JAH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298869 | 1 | 06/05/24 14:12 | 06/06/24 01:06 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 200 | 06/11/24 07:14 | 06/12/24 06:28 | ALM | Mt. Juliet, TN |

## G-F2-1-3.0 L1741416-34 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 08:15 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296618 | 1 | 06/01/24 10:16 | 06/01/24 10:34 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296691 | 1 | 06/01/24 11:13 | 06/02/24 21:34 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/07/24 17:51 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299109 | 1 | 06/05/24 14:42 | 06/08/24 18:01 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 25 | 05/29/24 08:15 | 06/04/24 08:16 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 08:15 | 06/05/24 06:42 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300243 | 8 | 05/29/24 08:15 | 06/07/24 01:06 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 10 | 06/06/24 09:41 | 06/07/24 10:21 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 10 | 06/10/24 16:37 | 06/11/24 05:01 | ALM | Mt. Juliet, TN |

## G-F2-1-4.0 L1741416-35 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 08:20 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2301199 | 1 | 06/08/24 10:58 | 06/08/24 11:13 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 4.12 | 05/29/24 08:20 | 06/11/24 17:12 | JBE | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303704 | 20 | 06/12/24 16:06 | 06/13/24 03:23 | ALM | Mt. Juliet, TN |

## G-F2-1-5.0 L1741416-36 Solid

Collected by: J. AGUAYO/ D. BAILEY | Collected date/time: 05/29/24 08:30 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296618 | 1 | 06/01/24 10:16 | 06/01/24 10:34 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2297583 | 42.8 | 05/29/24 08:30 | 06/04/24 08:35 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1 | 05/29/24 08:30 | 06/05/24 07:01 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300243 | 1 | 05/29/24 08:30 | 06/06/24 23:51 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 1 | 06/06/24 09:41 | 06/06/24 21:00 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303704 | 20 | 06/12/24 16:06 | 06/13/24 04:24 | ALM | Mt. Juliet, TN |

# CASE NARRATIVE

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



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/10/24 10:48
Level II Report - Version 2: 08/16/24 10:40

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G1-1-1.0 | L1741416-12 | Mercury | 0.0654 | | 0.0212 | 0.0471 | 1 | 06/01/2024 14:55 | WG2296379 |
| G-G1-1-2.0 | L1741416-13 | Mercury | 0.132 | | 0.0199 | 0.0442 | 1 | 06/01/2024 14:57 | WG2296379 |
| G-G1-1-3.0 | L1741416-14 | Mercury | 0.0780 | | 0.0267 | 0.0594 | 1 | 06/01/2024 15:00 | WG2296379 |
| G-G2-1-1.0 | L1741416-17 | Mercury | 0.0589 | | 0.0225 | 0.0500 | 1 | 06/01/2024 15:02 | WG2296379 |
| G-G2-1-3.0 | L1741416-19 | Mercury | 0.0255 | J | 0.0250 | 0.0556 | 1 | 06/01/2024 13:44 | WG2296379 |
| G-G2-1-4.0 | L1741416-20 | Mercury | 0.0600 | | 0.0238 | 0.0528 | 1 | 06/14/2024 09:48 | WG2304258 |
| G-G3-1-1.0 | L1741416-22 | Mercury | 0.319 | | 0.0191 | 0.0425 | 1 | 06/02/2024 23:53 | WG2296693 |
| G-G3-1-2.0 | L1741416-23 | Mercury | 0.0632 | | 0.0221 | 0.0491 | 1 | 06/03/2024 00:00 | WG2296693 |
| G-G3-1-3.0 | L1741416-24 | Mercury | 0.0591 | | 0.0222 | 0.0494 | 1 | 06/03/2024 00:02 | WG2296693 |
| G/BS-F4-1-1.0 | L1741416-27 | Mercury | 0.105 | | 0.0196 | 0.0436 | 1 | 06/03/2024 00:05 | WG2296693 |
| G/BS-F4-1-2.0 | L1741416-28 | Mercury | 0.630 | | 0.0213 | 0.0473 | 1 | 06/03/2024 00:07 | WG2296693 |
| G/BS-F4-1-3.0 | L1741416-29 | Mercury | 0.0574 | | 0.0223 | 0.0496 | 1 | 06/02/2024 21:26 | WG2296691 |
| G-F2-1-1.0 | L1741416-32 | Mercury | 0.0318 | J | 0.0215 | 0.0478 | 1 | 06/02/2024 21:29 | WG2296691 |
| G-F2-1-2.0 | L1741416-33 | Mercury | 0.0266 | J | 0.0203 | 0.0451 | 1 | 06/02/2024 21:31 | WG2296691 |
| G-F2-1-3.0 | L1741416-34 | Mercury | 0.128 | | 0.0212 | 0.0471 | 1 | 06/02/2024 21:34 | WG2296691 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G1-1-1.0 | L1741416-12 | Antimony | 7.56 | | 0.640 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Arsenic | 8.18 | | 0.609 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Barium | 265 | | 0.100 | 0.588 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Beryllium | 0.525 | | 0.0371 | 0.235 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Cadmium | 0.332 | J | 0.0554 | 0.588 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Chromium | 66.4 | | 0.156 | 1.18 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Cobalt | 10.0 | | 0.0954 | 1.18 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Copper | 28.0 | | 0.471 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Lead | 12.2 | | 0.245 | 0.588 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Molybdenum | 0.441 | J | 0.128 | 0.588 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Nickel | 43.9 | | 0.155 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Silver | 0.513 | J | 0.149 | 1.18 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Vanadium | 64.4 | | 0.595 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-1.0 | L1741416-12 | Zinc | 64.6 | | 0.979 | 5.88 | 1 | 06/08/2024 10:14 | WG2297323 |
| G-G1-1-2.0 | L1741416-13 | Antimony | 7.34 | | 0.601 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Arsenic | 2.31 | | 0.573 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Barium | 260 | | 0.0942 | 0.553 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Beryllium | 0.672 | | 0.0348 | 0.221 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Cadmium | 0.180 | J | 0.0521 | 0.553 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Chromium | 192 | | 0.147 | 1.11 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Cobalt | 12.0 | | 0.0897 | 1.11 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Copper | 46.7 | | 0.442 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Lead | 30.8 | | 0.230 | 0.553 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Molybdenum | 2.18 | | 0.120 | 0.553 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Nickel | 64.1 | | 0.146 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Vanadium | 126 | | 0.559 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| G-G1-1-2.0 | L1741416-13 | Zinc | 60.8 | | 0.920 | 5.53 | 1 | 06/06/2024 00:23 | WG2297407 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G1-1-3.0 | L1741416-14 | Antimony | 5.12 | | 0.807 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Arsenic | 7.07 | | 0.769 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Barium | 258 | | 0.126 | 0.742 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Beryllium | 0.825 | | 0.0468 | 0.297 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Cadmium | 26.4 | | 0.0699 | 0.742 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Chromium | 82.0 | | 0.197 | 1.48 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Cobalt | 16.0 | | 0.120 | 1.48 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Copper | 60.2 | | 0.594 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Lead | 407 | | 0.309 | 0.742 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Molybdenum | 1.01 | | 0.162 | 0.742 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Nickel | 85.4 | | 0.196 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Thallium | 1.38 | J | 0.585 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Vanadium | 73.8 | | 0.751 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-3.0 | L1741416-14 | Zinc | 178 | | 1.23 | 7.42 | 1 | 06/06/2024 00:25 | WG2297407 |
| G-G1-1-4.0 | L1741416-15 | Lead | 114 | | 0.287 | 0.691 | 1 | 07/01/2024 20:13 | WG2315127 |
| G-G2-1-1.0 | L1741416-17 | Antimony | 1.02 | J | 0.680 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Barium | 179 | | 0.107 | 0.625 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Beryllium | 0.337 | B | 0.0394 | 0.250 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Cadmium | 0.0695 | J | 0.0589 | 0.625 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Chromium | 40.9 | | 0.166 | 1.25 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Cobalt | 13.2 | | 0.101 | 1.25 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Copper | 29.7 | | 0.500 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Lead | 46.5 | | 0.260 | 0.625 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Molybdenum | 0.687 | | 0.136 | 0.625 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Nickel | 56.3 | | 0.165 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Selenium | 2.35 | J | 0.955 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Silver | 0.416 | J | 0.159 | 1.25 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Vanadium | 45.8 | | 0.633 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-1.0 | L1741416-17 | Zinc | 82.3 | | 1.04 | 6.25 | 1 | 06/05/2024 00:06 | WG2297097 |
| G-G2-1-2.0 | L1741416-18 | Antimony | 4.49 | | 0.721 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Arsenic | 4.57 | | 0.686 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Barium | 291 | | 0.113 | 0.662 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Beryllium | 0.794 | | 0.0417 | 0.265 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Cadmium | 0.851 | | 0.0624 | 0.662 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Chromium | 83.8 | | 0.176 | 1.32 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Cobalt | 25.3 | | 0.107 | 1.32 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Copper | 40.3 | | 0.530 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Lead | 30.7 | | 0.276 | 0.662 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Molybdenum | 0.524 | J | 0.144 | 0.662 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Nickel | 71.8 | | 0.175 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Thallium | 2.01 | J | 0.522 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Vanadium | 87.3 | | 0.670 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-2.0 | L1741416-18 | Zinc | 89.0 | | 1.10 | 6.62 | 1 | 06/06/2024 00:27 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Antimony | 4.33 | | 0.756 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Arsenic | 4.07 | | 0.720 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Barium | 306 | | 0.118 | 0.695 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Beryllium | 0.411 | | 0.0438 | 0.278 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Cadmium | 3.24 | | 0.0654 | 0.695 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Chromium | 100 | | 0.185 | 1.39 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Cobalt | 2.79 | | 0.113 | 1.39 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Copper | 28.0 | | 0.556 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Lead | 233 | | 0.289 | 0.695 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Molybdenum | 3.29 | | 0.151 | 0.695 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Nickel | 27.4 | | 0.183 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Thallium | 1.67 | J | 0.547 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-3.0 | L1741416-19 | Vanadium | 83.8 | | 0.703 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G2-1-3.0 | L1741416-19 | Zinc | 55.2 | | 1.16 | 6.95 | 1 | 06/06/2024 00:28 | WG2297407 |
| G-G2-1-4.0 | L1741416-20 | Antimony | 7.07 | J6 | 0.718 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Arsenic | 4.22 | | 0.684 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Barium | 339 | | 0.113 | 0.660 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Beryllium | 1.08 | | 0.0416 | 0.264 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Cadmium | 0.378 | B J | 0.0622 | 0.660 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Chromium | 87.5 | | 0.176 | 1.32 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Cobalt | 9.85 | O1 | 0.107 | 1.32 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Copper | 41.4 | | 0.528 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Lead | 63.9 | J3 J5 | 0.275 | 0.660 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Nickel | 57.2 | | 0.174 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Vanadium | 87.5 | | 0.668 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G2-1-4.0 | L1741416-20 | Zinc | 75.9 | | 1.10 | 6.60 | 1 | 06/19/2024 09:46 | WG2305335 |
| G-G3-1-1.0 | L1741416-22 | Antimony | 3.85 | | 0.579 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Arsenic | 23.2 | | 0.551 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Barium | 176 | | 0.0906 | 0.532 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Beryllium | 0.0723 | J | 0.0335 | 0.213 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Cadmium | 0.773 | | 0.0501 | 0.532 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Chromium | 26.7 | | 0.141 | 1.06 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Cobalt | 8.67 | | 0.0862 | 1.06 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Copper | 43.2 | | 0.425 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Lead | 140 | | 0.221 | 0.532 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Molybdenum | 2.92 | | 0.116 | 0.532 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Nickel | 20.0 | | 0.140 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Silver | 0.255 | B J | 0.135 | 1.06 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Vanadium | 36.8 | | 0.538 | 2.13 | 1 | 06/08/2024 18:03 | WG2299109 |
| G-G3-1-1.0 | L1741416-22 | Zinc | 203 | | 0.885 | 5.32 | 1 | 06/07/2024 19:23 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Antimony | 1.41 | J | 0.668 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Arsenic | 5.49 | | 0.636 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Barium | 210 | | 0.105 | 0.614 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Beryllium | 0.283 | | 0.0387 | 0.245 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Cadmium | 0.510 | J | 0.0578 | 0.614 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Chromium | 66.9 | | 0.163 | 1.23 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Cobalt | 13.1 | | 0.0995 | 1.23 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Copper | 30.8 | | 0.491 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Lead | 32.6 | | 0.255 | 0.614 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Molybdenum | 1.20 | | 0.134 | 0.614 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Nickel | 67.1 | | 0.162 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Vanadium | 57.6 | | 0.621 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-2.0 | L1741416-23 | Zinc | 70.5 | | 1.02 | 6.14 | 1 | 06/07/2024 19:26 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Antimony | 1.61 | J | 0.672 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Arsenic | 4.53 | | 0.640 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Barium | 189 | | 0.105 | 0.618 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Beryllium | 0.258 | | 0.0389 | 0.247 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Cadmium | 0.344 | J | 0.0582 | 0.618 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Chromium | 66.9 | | 0.164 | 1.24 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Cobalt | 13.1 | | 0.100 | 1.24 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Copper | 26.1 | | 0.494 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Lead | 21.3 | | 0.257 | 0.618 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Molybdenum | 0.254 | J | 0.135 | 0.618 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Nickel | 66.8 | | 0.163 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Vanadium | 56.4 | | 0.625 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| G-G3-1-3.0 | L1741416-24 | Zinc | 57.3 | | 1.03 | 6.18 | 1 | 06/07/2024 19:30 | WG2299109 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-F4-1-1.0 | L1741416-27 | Antimony | 26.6 | | 0.593 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Arsenic | 5.43 | | 0.565 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Barium | 492 | | 0.0930 | 0.545 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Beryllium | 0.645 | | 0.0344 | 0.218 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Cadmium | 25.7 | | 0.0514 | 0.545 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Chromium | 50.4 | | 0.145 | 1.09 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Cobalt | 7.12 | | 0.0885 | 1.09 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Copper | 202 | | 0.436 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Lead | 6190 | | 0.227 | 0.545 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Molybdenum | 5.64 | | 0.119 | 0.545 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Nickel | 40.8 | | 0.144 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Silver | 1.99 | B | 0.139 | 1.09 | 1 | 06/07/2024 17:35 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Vanadium | 14.6 | | 0.552 | 2.18 | 1 | 06/08/2024 18:05 | WG2299109 |
| G/BS-F4-1-1.0 | L1741416-27 | Zinc | 5690 | | 4.54 | 27.3 | 5 | 06/08/2024 17:58 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Antimony | 11.5 | | 0.644 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Arsenic | 5.76 | | 0.613 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Barium | 170 | | 0.101 | 0.591 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Beryllium | 0.343 | | 0.0373 | 0.237 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Cadmium | 9.05 | | 0.0557 | 0.591 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Chromium | 39.1 | | 0.157 | 1.18 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Cobalt | 7.71 | | 0.0959 | 1.18 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Copper | 165 | | 0.473 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Lead | 2500 | | 0.246 | 0.591 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Molybdenum | 1.49 | | 0.129 | 0.591 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Nickel | 29.9 | | 0.156 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Silver | 1.61 | B | 0.150 | 1.18 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Vanadium | 45.4 | | 0.599 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| G/BS-F4-1-2.0 | L1741416-28 | Zinc | 2720 | | 4.92 | 29.6 | 5 | 06/08/2024 18:00 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Antimony | 1.90 | J | 0.675 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Arsenic | 3.66 | | 0.643 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Barium | 157 | | 0.106 | 0.620 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Beryllium | 0.216 | J | 0.0391 | 0.248 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Cadmium | 0.439 | J | 0.0584 | 0.620 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Chromium | 52.6 | | 0.165 | 1.24 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Cobalt | 10.9 | | 0.101 | 1.24 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Copper | 20.3 | | 0.496 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Lead | 24.3 | | 0.258 | 0.620 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Molybdenum | 0.269 | J | 0.135 | 0.620 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Nickel | 53.9 | | 0.164 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Vanadium | 44.8 | | 0.628 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| G/BS-F4-1-3.0 | L1741416-29 | Zinc | 75.5 | | 1.03 | 6.20 | 1 | 06/07/2024 17:41 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Antimony | 2.51 | | 0.650 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Arsenic | 2.12 | J | 0.619 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Barium | 64.2 | | 0.102 | 0.597 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Beryllium | 0.185 | J | 0.0376 | 0.239 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Cadmium | 0.192 | J | 0.0562 | 0.597 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Chromium | 20.9 | | 0.159 | 1.19 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Cobalt | 4.12 | | 0.0968 | 1.19 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Copper | 33.4 | | 0.478 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Lead | 43.3 | | 0.248 | 0.597 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Molybdenum | 0.452 | J | 0.130 | 0.597 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Nickel | 20.3 | | 0.158 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Vanadium | 25.4 | | 0.604 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| G-F2-1-1.0 | L1741416-32 | Zinc | 96.3 | | 0.993 | 5.97 | 1 | 06/07/2024 17:44 | WG2299109 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F2-1-2.0 | L1741416-33 | Antimony | 1.34 | J | 0.613 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Arsenic | 1.81 | J | 0.583 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Barium | 56.4 | | 0.0960 | 0.563 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Beryllium | 0.131 | J | 0.0355 | 0.225 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Cadmium | 0.257 | J | 0.0531 | 0.563 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Chromium | 14.9 | | 0.150 | 1.13 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Cobalt | 3.40 | | 0.0913 | 1.13 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Copper | 12.1 | | 0.451 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Lead | 23.5 | | 0.234 | 0.563 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Molybdenum | 0.921 | | 0.123 | 0.563 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Nickel | 17.9 | | 0.149 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Vanadium | 13.3 | | 0.570 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-2.0 | L1741416-33 | Zinc | 46.9 | | 0.937 | 5.63 | 1 | 06/07/2024 17:48 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Antimony | 4.90 | | 0.641 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Arsenic | 4.71 | | 0.610 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Barium | 23.1 | | 0.100 | 0.589 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Beryllium | 0.0555 | J | 0.0371 | 0.236 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Cadmium | 0.0697 | J | 0.0555 | 0.589 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Chromium | 53.7 | | 0.157 | 1.18 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Cobalt | 4.36 | | 0.0955 | 1.18 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Copper | 136 | | 0.471 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Lead | 29.6 | | 0.245 | 0.589 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Molybdenum | 5.59 | | 0.128 | 0.589 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Nickel | 31.9 | | 0.155 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Vanadium | 10.7 | | 0.596 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| G-F2-1-3.0 | L1741416-34 | Zinc | 26.1 | | 0.980 | 5.89 | 1 | 06/07/2024 17:51 | WG2299109 |

## Metals (ICPMS) by Method 6020

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052924 | L1741416-07 | Barium | 2.95 | | 0.381 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| EB-052924 | L1741416-07 | Chromium | 1.31 | J | 1.24 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| EB-052924 | L1741416-07 | Cobalt | 0.165 | J | 0.0596 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| EB-052924 | L1741416-07 | Zinc | 3.44 | J | 3.02 | 25.0 | 1 | 07/02/2024 14:41 | WG2308134 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-10-8-5.0 | L1741416-01 | TPHG C5 - C12 | 152 | | 1.36 | 4.09 | 25 | 06/03/2024 17:54 | WG2297459 |
| SVP-25-8-8.0 | L1741416-02 | TPHG C5 - C12 | 3.07 | B J | 1.35 | 4.06 | 25 | 06/03/2024 18:14 | WG2297459 |
| SVP-36-5-5.0 | L1741416-03 | TPHG C5 - C12 | 303 | | 1.42 | 4.28 | 25 | 06/03/2024 18:33 | WG2297459 |
| SVP-36-8-8.0 | L1741416-04 | TPHG C5 - C12 | 486 | | 14.3 | 42.9 | 250 | 06/07/2024 01:26 | WG2300304 |
| SVP-61-4-4.0 | L1741416-05 | TPHG C5 - C12 | 2.40 | J | 1.19 | 3.57 | 25 | 06/07/2024 19:44 | WG2300918 |
| SVP-62-4-4.0 | L1741416-06 | TPHG C5 - C12 | 30.6 | | 1.58 | 4.76 | 41.5 | 06/04/2024 01:41 | WG2297583 |
| G-G1-1-1.0 | L1741416-12 | TPHG C5 - C12 | 2.43 | B J T8 | 1.17 | 3.53 | 25 | 06/16/2024 13:58 | WG2306105 |
| G-G1-1-2.0 | L1741416-13 | TPHG C5 - C12 | 1.59 | B J T8 | 1.01 | 3.04 | 25 | 06/16/2024 14:20 | WG2306105 |
| G-G1-1-3.0 | L1741416-14 | TPHG C5 - C12 | 80.1 | | 1.83 | 5.52 | 29 | 06/04/2024 02:00 | WG2297583 |
| G-G1-1-4.0 | L1741416-15 | TPHG C5 - C12 | 45.6 | T8 | 1.48 | 4.45 | 25 | 06/16/2024 14:41 | WG2306105 |
| G-G1-1-5.0 | L1741416-16 | TPHG C5 - C12 | 62.2 | | 1.37 | 4.14 | 25 | 06/04/2024 02:20 | WG2297583 |
| G-G2-1-1.0 | L1741416-17 | TPHG C5 - C12 | 3.30 | B J T8 | 1.40 | 4.22 | 28.7 | 06/18/2024 18:51 | WG2307455 |
| G-G2-1-2.0 | L1741416-18 | TPHG C5 - C12 | 4.58 | B T8 | 1.41 | 4.26 | 25 | 06/16/2024 15:02 | WG2306105 |
| G-G2-1-3.0 | L1741416-19 | TPHG C5 - C12 | 117 | | 6.42 | 19.3 | 111 | 06/05/2024 07:24 | WG2298546 |
| G-G2-1-4.0 | L1741416-20 | TPHG C5 - C12 | 17.0 | B T8 | 1.40 | 4.22 | 25 | 06/17/2024 11:02 | WG2306312 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G2-1-5.0 | L1741416-21 | TPHG C5 - C12 | 12.7 | B | 1.36 | 4.09 | 25 | 06/04/2024 02:39 | WG2297583 |
| G-G3-1-3.0 | L1741416-24 | TPHG C5 - C12 | 4.30 | B | 1.27 | 3.83 | 25 | 06/04/2024 06:58 | WG2297583 |
| G-G3-1-5.0 | L1741416-26 | TPHG C5 - C12 | 1.86 | B J | 1.36 | 4.09 | 25 | 06/04/2024 07:18 | WG2297583 |
| G/BS-F4-1-3.0 | L1741416-29 | TPHG C5 - C12 | 1.48 | B J | 1.28 | 3.86 | 25 | 06/04/2024 07:37 | WG2297583 |
| G/BS-F4-1-5.0 | L1741416-31 | TPHG C5 - C12 | 1.74 | B J | 1.41 | 4.23 | 25 | 06/04/2024 07:56 | WG2297583 |
| G-F2-1-3.0 | L1741416-34 | TPHG C5 - C12 | 243 | | 1.13 | 3.42 | 25 | 06/04/2024 08:16 | WG2297583 |
| G-F2-1-5.0 | L1741416-36 | TPHG C5 - C12 | 275 | | 2.14 | 6.44 | 42.8 | 06/04/2024 08:35 | WG2297583 |

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

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-052924 | L1741416-07 | Chloroform | 0.912 | J | 0.111 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-10-8-5.0 | L1741416-01 | Benzene | 0.000909 | J | 0.000764 | 0.00164 | 1 | 06/04/2024 20:03 | WG2298438 |
| SVP-10-8-5.0 | L1741416-01 | n-Butylbenzene | 0.0497 | | 0.00859 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| SVP-10-8-5.0 | L1741416-01 | sec-Butylbenzene | 0.0615 | | 0.00471 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| SVP-10-8-5.0 | L1741416-01 | Ethylbenzene | 0.00208 | J | 0.00121 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| SVP-10-8-5.0 | L1741416-01 | Isopropylbenzene | 0.0144 | | 0.000695 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| SVP-10-8-5.0 | L1741416-01 | n-Propylbenzene | 0.0329 | | 0.00155 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| SVP-10-8-5.0 | L1741416-01 | Toluene | 0.00312 | J | 0.00213 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| SVP-10-8-5.0 | L1741416-01 | Xylenes, Total | 0.00662 | J | 0.00144 | 0.0106 | 1 | 06/04/2024 20:03 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | Benzene | 0.00226 | | 0.000800 | 0.00171 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | n-Butylbenzene | 2.62 | | 0.00899 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | sec-Butylbenzene | 1.92 | | 0.00493 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | tert-Butylbenzene | 0.164 | | 0.00334 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | 1,2-Dichlorobenzene | 0.390 | | 0.000728 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | 1,3-Dichlorobenzene | 0.298 | | 0.00103 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | 1,4-Dichlorobenzene | 1.42 | | 0.00120 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | Ethylbenzene | 0.00140 | J | 0.00126 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | Isopropylbenzene | 0.834 | | 0.000728 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | p-Isopropyltoluene | 0.00669 | J | 0.00437 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | n-Propylbenzene | 0.0702 | | 0.00163 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | Toluene | 0.00353 | J | 0.00223 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | 1,2,4-Trichlorobenzene | 0.120 | | 0.00753 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | 1,2,4-Trimethylbenzene | 0.00794 | J | 0.00271 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | 1,2,3-Trimethylbenzene | 0.0288 | | 0.00271 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-5-5.0 | L1741416-03 | Xylenes, Total | 0.139 | | 0.00151 | 0.0111 | 1 | 06/04/2024 20:54 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | Benzene | 0.00204 | | 0.000802 | 0.00172 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | n-Butylbenzene | 2.30 | | 0.00901 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | sec-Butylbenzene | 1.70 | | 0.00494 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | tert-Butylbenzene | 0.130 | | 0.00335 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | 1,2-Dichlorobenzene | 0.275 | | 0.000730 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | 1,3-Dichlorobenzene | 0.223 | | 0.00103 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | 1,4-Dichlorobenzene | 0.956 | | 0.00120 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | Ethylbenzene | 0.00362 | J | 0.00127 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | Isopropylbenzene | 1.10 | | 0.000730 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | n-Propylbenzene | 0.323 | | 0.00163 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | Toluene | 0.00342 | J | 0.00223 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | 1,2,4-Trichlorobenzene | 0.0697 | | 0.00755 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | 1,2,4-Trimethylbenzene | 0.00458 | J | 0.00271 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-36-8-8.0 | L1741416-04 | 1,2,3-Trimethylbenzene | 0.0809 | | 0.00271 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-36-8-8.0 | L1741416-04 | Xylenes, Total | 0.123 | | 0.00151 | 0.0112 | 1 | 06/04/2024 21:14 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | Benzene | 0.00518 | | 0.000678 | 0.00145 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | n-Butylbenzene | 0.0338 | | 0.00762 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | sec-Butylbenzene | 0.0193 | | 0.00418 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | 1,2-Dichlorobenzene | 0.00303 | J | 0.000617 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | 1,3-Dichlorobenzene | 0.00203 | J | 0.000871 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | 1,4-Dichlorobenzene | 0.00952 | | 0.00102 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | Isopropylbenzene | 0.0105 | | 0.000617 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | Naphthalene | 0.00827 | J | 0.00708 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | n-Propylbenzene | 0.00282 | J | 0.00138 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | Toluene | 0.00491 | J | 0.00189 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-61-4-4.0 | L1741416-05 | Xylenes, Total | 0.00467 | J | 0.00128 | 0.00944 | 1 | 06/04/2024 21:42 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | Benzene | 0.00576 | | 0.000889 | 0.00190 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | n-Butylbenzene | 0.0263 | | 0.0100 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | sec-Butylbenzene | 0.00691 | J | 0.00548 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | Ethylbenzene | 0.0168 | | 0.00140 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | Isopropylbenzene | 0.00405 | J | 0.000810 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | p-Isopropyltoluene | 0.0369 | | 0.00485 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | Naphthalene | 0.211 | | 0.00929 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | n-Propylbenzene | 0.0119 | | 0.00181 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | Toluene | 0.0177 | | 0.00248 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | 1,2,4-Trimethylbenzene | 0.0176 | | 0.00301 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | 1,2,3-Trimethylbenzene | 0.0107 | | 0.00301 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| SVP-62-4-4.0 | L1741416-06 | Xylenes, Total | 0.0249 | | 0.00168 | 0.0124 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| G-G1-1-2.0 | L1741416-13 | Benzene | 0.000809 | J | 0.000568 | 0.00122 | 1 | 06/04/2024 22:30 | WG2298438 |
| G-G1-1-2.0 | L1741416-13 | Ethylbenzene | 0.00119 | J | 0.000897 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| G-G1-1-2.0 | L1741416-13 | Naphthalene | 0.0173 | | 0.00594 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| G-G1-1-2.0 | L1741416-13 | Tetrachloroethene | 0.00937 | | 0.00109 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| G-G1-1-2.0 | L1741416-13 | Toluene | 0.00242 | J | 0.00158 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| G-G1-1-2.0 | L1741416-13 | Xylenes, Total | 0.00462 | J | 0.00107 | 0.00791 | 1 | 06/04/2024 22:30 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Benzene | 0.00232 | | 0.00103 | 0.00221 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | n-Butylbenzene | 0.0755 | | 0.0116 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | sec-Butylbenzene | 0.0204 | J | 0.00635 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | 1,2-Dichlorobenzene | 0.00575 | J | 0.000938 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Ethylbenzene | 0.00459 | J | 0.00163 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Isopropylbenzene | 0.0128 | | 0.000938 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | p-Isopropyltoluene | 0.0182 | | 0.00563 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Methyl tert-butyl ether | 0.00441 | | 0.000772 | 0.00221 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Naphthalene | 0.0293 | | 0.0108 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | n-Propylbenzene | 0.0109 | J | 0.00209 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Tetrachloroethene | 0.0628 | | 0.00198 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Toluene | 0.00491 | J | 0.00287 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Trichloroethene | 0.00656 | | 0.00129 | 0.00221 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | 1,2,4-Trimethylbenzene | 0.0272 | | 0.00348 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | 1,2,3-Trimethylbenzene | 0.0445 | | 0.00348 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | 1,3,5-Trimethylbenzene | 0.0142 | | 0.00441 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| G-G1-1-3.0 | L1741416-14 | Xylenes, Total | 0.0194 | | 0.00194 | 0.0143 | 1.16 | 06/04/2024 22:49 | WG2298438 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G1-1-5.0 | L1741416-16 | n-Butylbenzene | 0.230 | | 0.00869 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | sec-Butylbenzene | 0.127 | | 0.00477 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | tert-Butylbenzene | 0.00732 | J | 0.00323 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | 2-Chlorotoluene | 0.0416 | | 0.00143 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | 1,2-Dichlorobenzene | 0.0771 | | 0.000704 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | 1,3-Dichlorobenzene | 0.00702 | J | 0.000993 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | 1,4-Dichlorobenzene | 0.0202 | | 0.00116 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | Ethylbenzene | 0.00220 | J | 0.00122 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | Isopropylbenzene | 0.0566 | | 0.000704 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | p-Isopropyltoluene | 0.00609 | J | 0.00422 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | n-Propylbenzene | 0.0444 | | 0.00157 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | 1,2,4-Trimethylbenzene | 0.00533 | J | 0.00262 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | 1,2,3-Trimethylbenzene | 0.00328 | J | 0.00262 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G1-1-5.0 | L1741416-16 | Xylenes, Total | 0.0245 | | 0.00146 | 0.0108 | 1 | 06/04/2024 23:12 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | Benzene | 0.0100 | | 0.000796 | 0.00170 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | n-Butylbenzene | 0.0141 | J | 0.00895 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | cis-1,2-Dichloroethene | 0.00337 | J | 0.00125 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | Ethylbenzene | 0.00201 | J | 0.00126 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | Naphthalene | 0.0139 | J | 0.00832 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | Toluene | 0.00535 | J | 0.00222 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | Trichloroethene | 0.0182 | | 0.000995 | 0.00170 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | 1,2,4-Trimethylbenzene | 0.00341 | J | 0.00269 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-2.0 | L1741416-18 | Xylenes, Total | 0.00593 | J | 0.00150 | 0.0111 | 1 | 06/04/2024 23:32 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | Benzene | 0.0699 | | 0.00684 | 0.0146 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | n-Butylbenzene | 2.38 | | 0.0768 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | sec-Butylbenzene | 0.236 | | 0.0421 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | 2-Chlorotoluene | 0.514 | | 0.0127 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | 4-Chlorotoluene | 0.503 | | 0.00658 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | 1,2-Dichlorobenzene | 0.0461 | J | 0.00622 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | cis-1,2-Dichloroethene | 0.0704 | | 0.0107 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | Ethylbenzene | 0.346 | | 0.0108 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | Isopropylbenzene | 0.305 | | 0.00622 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | p-Isopropyltoluene | 0.633 | | 0.0373 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | 4-Methyl-2-pentanone (MIBK) | 0.578 | | 0.0333 | 0.366 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | Naphthalene | 7.02 | | 0.0713 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | n-Propylbenzene | 0.307 | | 0.0139 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | Tetrachloroethene | 0.115 | | 0.0131 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | Toluene | 0.534 | | 0.0190 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | 1,2,4-Trichlorobenzene | 0.102 | J | 0.0644 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | Trichloroethene | 1.75 | | 0.00854 | 0.0146 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | 1,2,4-Trimethylbenzene | 3.16 | | 0.0230 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | 1,2,3-Trimethylbenzene | 2.05 | | 0.0230 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | 1,3,5-Trimethylbenzene | 1.39 | | 0.0293 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| G-G2-1-3.0 | L1741416-19 | Xylenes, Total | 2.12 | | 0.0129 | 0.0951 | 8 | 06/05/2024 01:25 | WG2298438 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G2-1-4.0 | L1741416-20 | Benzene | 0.00560 | | 0.00158 | 0.00338 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | n-Butylbenzene | 0.0380 | J | 0.0178 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | sec-Butylbenzene | 0.0289 | J | 0.00974 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | 2-Chlorotoluene | 0.0555 | | 0.00293 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | 1,2-Dichlorobenzene | 0.00419 | J | 0.00144 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | cis-1,2-Dichloroethene | 0.0164 | | 0.00249 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | Ethylbenzene | 0.0218 | | 0.00249 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | Isopropylbenzene | 0.0238 | | 0.00144 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | p-Isopropyltoluene | 0.0802 | | 0.00862 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | Naphthalene | 0.775 | | 0.0165 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | n-Propylbenzene | 0.0303 | | 0.00321 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | Tetrachloroethene | 0.00911 | | 0.00303 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | Toluene | 0.0352 | | 0.00440 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | Trichloroethene | 0.112 | | 0.00198 | 0.00338 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | 1,2,4-Trimethylbenzene | 0.333 | | 0.00534 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | 1,2,3-Trimethylbenzene | 0.235 | | 0.00534 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | 1,3,5-Trimethylbenzene | 0.176 | | 0.00676 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-4.0 | L1741416-20 | Xylenes, Total | 0.163 | | 0.00298 | 0.0220 | 2 | 06/12/2024 23:48 | WG2303955 |
| G-G2-1-5.0 | L1741416-21 | Benzene | 0.00454 | | 0.000763 | 0.00163 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | n-Butylbenzene | 0.275 | | 0.00858 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | sec-Butylbenzene | 0.0235 | | 0.00471 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | cis-1,2-Dichloroethene | 0.0204 | | 0.00120 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | Ethylbenzene | 0.0199 | | 0.00120 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | Isopropylbenzene | 0.0227 | | 0.000695 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | p-Isopropyltoluene | 0.0646 | | 0.00417 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | Naphthalene | 0.422 | | 0.00798 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | n-Propylbenzene | 0.0242 | | 0.00155 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | Tetrachloroethene | 0.00994 | | 0.00146 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | Toluene | 0.0240 | | 0.00212 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | Trichloroethene | 0.0866 | | 0.000954 | 0.00163 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | 1,2,4-Trimethylbenzene | 0.265 | | 0.00258 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | 1,2,3-Trimethylbenzene | 0.185 | | 0.00258 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | 1,3,5-Trimethylbenzene | 0.126 | | 0.00327 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G2-1-5.0 | L1741416-21 | Xylenes, Total | 0.137 | | 0.00144 | 0.0106 | 1 | 06/04/2024 23:54 | WG2298438 |
| G-G3-1-2.0 | L1741416-23 | Benzene | 0.00716 | | 0.000695 | 0.00149 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | sec-Butylbenzene | 0.00936 | J | 0.00429 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | Ethylbenzene | 0.0147 | | 0.00110 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | Isopropylbenzene | 0.0118 | | 0.000633 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | p-Isopropyltoluene | 0.00738 | J | 0.00380 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | Naphthalene | 0.0118 | J | 0.00726 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | n-Propylbenzene | 0.0134 | | 0.00141 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | Toluene | 0.00493 | J | 0.00194 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | 1,2,4-Trimethylbenzene | 0.0341 | | 0.00235 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | 1,2,3-Trimethylbenzene | 0.0213 | | 0.00235 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-2.0 | L1741416-23 | Xylenes, Total | 0.0469 | | 0.00131 | 0.00968 | 1 | 06/05/2024 04:29 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | Benzene | 0.00245 | | 0.000698 | 0.00150 | 1 | 06/05/2024 04:48 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | sec-Butylbenzene | 0.00434 | J | 0.00431 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | Ethylbenzene | 0.00156 | J | 0.00110 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | Isopropylbenzene | 0.00612 | | 0.000636 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | n-Propylbenzene | 0.00775 | | 0.00142 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | Toluene | 0.00232 | J | 0.00194 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | 1,2,4-Trimethylbenzene | 0.00972 | | 0.00236 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | 1,3,5-Trimethylbenzene | 0.00316 | J | 0.00299 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| G-G3-1-3.0 | L1741416-24 | Xylenes, Total | 0.00990 | | 0.00132 | 0.00972 | 1 | 06/05/2024 04:48 | WG2298650 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-F4-1-2.0 | L1741416-28 | Benzene | 0.000865 | J | 0.000657 | 0.00141 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | 1,1-Dichloroethene | 0.000865 | J | 0.000852 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | Ethylbenzene | 0.00127 | J | 0.00104 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | Isopropylbenzene | 0.00121 | J | 0.000598 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | Naphthalene | 0.0117 | J | 0.00687 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | Tetrachloroethene | 0.00779 | | 0.00126 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | Toluene | 0.00582 | J | 0.00183 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | 1,1,1-Trichloroethane | 0.0734 | | 0.00130 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | 1,2,4-Trimethylbenzene | 0.00758 | | 0.00222 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | 1,2,3-Trimethylbenzene | 0.00626 | J | 0.00222 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-2.0 | L1741416-28 | Xylenes, Total | 0.0160 | | 0.00124 | 0.00914 | 1 | 06/05/2024 05:26 | WG2298650 |
| G/BS-F4-1-3.0 | L1741416-29 | 1,1,1-Trichloroethane | 0.00239 | J | 0.00140 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Benzene | 0.966 | | 0.000591 | 0.00127 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | n-Butylbenzene | 0.0843 | | 0.00665 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | sec-Butylbenzene | 0.130 | | 0.00365 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | tert-Butylbenzene | 0.0115 | | 0.00247 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Chloroethane | 18.5 | | 0.0430 | 0.127 | 20 | 06/07/2024 01:25 | WG2300243 |
| G-F2-1-2.0 | L1741416-33 | 1,4-Dichlorobenzene | 0.00146 | J | 0.000886 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | 1,1-Dichloroethane | 1.70 | | 0.000622 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | 1,1-Dichloroethene | 0.161 | | 0.000767 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | cis-1,2-Dichloroethene | 0.00841 | | 0.000929 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Ethylbenzene | 2.25 | | 0.000933 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Isopropylbenzene | 0.567 | | 0.000538 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | p-Isopropyltoluene | 0.107 | | 0.00323 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Naphthalene | 0.967 | | 0.00618 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | n-Propylbenzene | 0.928 | | 0.00120 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Toluene | 0.429 | | 0.00165 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | 1,1,1-Trichloroethane | 2.60 | | 0.00117 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Trichloroethene | 0.000912 | J | 0.000739 | 0.00127 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | 1,2,4-Trimethylbenzene | 2.46 | | 0.00200 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | 1,2,3-Trimethylbenzene | 0.901 | | 0.00200 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | 1,3,5-Trimethylbenzene | 1.13 | | 0.00253 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Vinyl chloride | 0.101 | | 0.00147 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-2.0 | L1741416-33 | Xylenes, Total | 6.80 | | 0.00111 | 0.00823 | 1 | 06/05/2024 06:23 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | Benzene | 0.490 | | 0.000637 | 0.00136 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | n-Butylbenzene | 0.184 | | 0.00716 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | sec-Butylbenzene | 0.206 | | 0.00393 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | Chloroethane | 12.6 | | 0.0186 | 0.0546 | 8 | 06/07/2024 01:06 | WG2300243 |
| G-F2-1-3.0 | L1741416-34 | 1,1-Dichloroethane | 0.351 | | 0.000670 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | 1,1-Dichloroethene | 0.0654 | | 0.000827 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | Ethylbenzene | 5.03 | | 0.00805 | 0.0273 | 8 | 06/07/2024 01:06 | WG2300243 |
| G-F2-1-3.0 | L1741416-34 | Isopropylbenzene | 0.632 | | 0.000580 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | p-Isopropyltoluene | 0.0929 | | 0.00348 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | Naphthalene | 0.0823 | | 0.00666 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | n-Propylbenzene | 2.09 | | 0.00130 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | Toluene | 0.0937 | | 0.00177 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | 1,1,1-Trichloroethane | 0.422 | | 0.00126 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | 1,2,4-Trimethylbenzene | 2.70 | | 0.00216 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | 1,2,3-Trimethylbenzene | 0.621 | | 0.00216 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | 1,3,5-Trimethylbenzene | 1.34 | | 0.00273 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | Vinyl chloride | 0.00884 | | 0.00158 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| G-F2-1-3.0 | L1741416-34 | Xylenes, Total | 3.36 | | 0.00120 | 0.00887 | 1 | 06/05/2024 06:42 | WG2298650 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F2-1-4.0 | L1741416-35 | Benzene | 0.152 | | 0.00281 | 0.00602 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | n-Butylbenzene | 0.338 | | 0.0316 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | sec-Butylbenzene | 0.442 | | 0.0174 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | tert-Butylbenzene | 0.243 | | 0.0117 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | Chloroethane | 1.92 | | 0.0102 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | 1,1-Dichloroethane | 0.124 | | 0.00295 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | 1,1-Dichloroethene | 0.0171 | | 0.00365 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | Ethylbenzene | 0.503 | | 0.00444 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | Isopropylbenzene | 0.775 | | 0.00256 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | p-Isopropyltoluene | 0.118 | | 0.0154 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | Naphthalene | 0.294 | | 0.0294 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | n-Propylbenzene | 2.12 | | 0.00572 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | Toluene | 0.148 | | 0.00784 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | 1,1,1-Trichloroethane | 0.190 | | 0.00556 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | 1,2,4-Trimethylbenzene | 1.28 | | 0.00952 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | 1,2,3-Trimethylbenzene | 0.617 | | 0.00952 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | 1,3,5-Trimethylbenzene | 0.384 | | 0.0120 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-4.0 | L1741416-35 | Xylenes, Total | 1.74 | | 0.00531 | 0.0392 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| G-F2-1-5.0 | L1741416-36 | Benzene | 0.0147 | | 0.000789 | 0.00169 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | n-Butylbenzene | 0.179 | | 0.00887 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | sec-Butylbenzene | 0.163 | | 0.00487 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | tert-Butylbenzene | 0.0204 | | 0.00330 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | Chloroethane | 0.260 | | 0.00287 | 0.00845 | 1 | 06/06/2024 23:51 | WG2300243 |
| G-F2-1-5.0 | L1741416-36 | 1,1-Dichloroethane | 0.00208 | J | 0.000830 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | Ethylbenzene | 0.248 | | 0.00125 | 0.00422 | 1 | 06/06/2024 23:51 | WG2300243 |
| G-F2-1-5.0 | L1741416-36 | Isopropylbenzene | 0.330 | | 0.000718 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | p-Isopropyltoluene | 0.0542 | | 0.00431 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | Naphthalene | 0.357 | | 0.00825 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | n-Propylbenzene | 1.12 | | 0.00161 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | Toluene | 0.00825 | J | 0.00220 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | 1,2,4-Trimethylbenzene | 0.387 | | 0.00267 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | 1,2,3-Trimethylbenzene | 0.766 | | 0.00267 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | 1,3,5-Trimethylbenzene | 0.102 | | 0.00338 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| G-F2-1-5.0 | L1741416-36 | Xylenes, Total | 0.0668 | | 0.00149 | 0.0110 | 1 | 06/05/2024 07:01 | WG2298650 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| SVP-10-8-5.0 | L1741416-01 | C12-C22 Hydrocarbons | 2.12 | J | 0.953 | 5.20 | 1 | 06/06/2024 02:04 | WG2299427 |
| SVP-36-5-5.0 | L1741416-03 | C12-C22 Hydrocarbons | 3510 | | 48.6 | 265 | 50 | 06/06/2024 11:11 | WG2299427 |
| SVP-36-5-5.0 | L1741416-03 | C22-C32 Hydrocarbons | 7590 | | 88.1 | 265 | 50 | 06/06/2024 11:11 | WG2299427 |
| SVP-36-5-5.0 | L1741416-03 | C32-C40 Hydrocarbons | 2110 | | 88.1 | 265 | 50 | 06/06/2024 11:11 | WG2299427 |
| SVP-36-8-8.0 | L1741416-04 | C12-C22 Hydrocarbons | 681 | | 4.83 | 26.3 | 5 | 06/06/2024 03:45 | WG2299427 |
| SVP-36-8-8.0 | L1741416-04 | C22-C32 Hydrocarbons | 1410 | | 35.0 | 105 | 20 | 06/06/2024 11:25 | WG2299427 |
| SVP-36-8-8.0 | L1741416-04 | C32-C40 Hydrocarbons | 349 | | 8.75 | 26.3 | 5 | 06/06/2024 03:45 | WG2299427 |
| SVP-61-4-4.0 | L1741416-05 | C12-C22 Hydrocarbons | 3.47 | J | 0.886 | 4.83 | 1 | 06/06/2024 02:33 | WG2299427 |
| SVP-61-4-4.0 | L1741416-05 | C22-C32 Hydrocarbons | 8.94 | | 1.61 | 4.83 | 1 | 06/06/2024 02:33 | WG2299427 |
| SVP-61-4-4.0 | L1741416-05 | C32-C40 Hydrocarbons | 3.72 | J | 1.61 | 4.83 | 1 | 06/06/2024 02:33 | WG2299427 |
| SVP-62-4-4.0 | L1741416-06 | C12-C22 Hydrocarbons | 5.91 | | 0.800 | 4.37 | 1 | 06/06/2024 20:46 | WG2299541 |
| SVP-62-4-4.0 | L1741416-06 | C22-C32 Hydrocarbons | 23.9 | | 1.45 | 4.37 | 1 | 06/06/2024 20:46 | WG2299541 |
| SVP-62-4-4.0 | L1741416-06 | C32-C40 Hydrocarbons | 9.42 | | 1.45 | 4.37 | 1 | 06/06/2024 20:46 | WG2299541 |
| G-G1-1-2.0 | L1741416-13 | C12-C22 Hydrocarbons | 9.13 | | 0.810 | 4.42 | 1 | 06/12/2024 19:55 | WG2303717 |
| G-G1-1-2.0 | L1741416-13 | C22-C32 Hydrocarbons | 30.2 | | 1.47 | 4.42 | 1 | 06/12/2024 19:55 | WG2303717 |
| G-G1-1-2.0 | L1741416-13 | C32-C40 Hydrocarbons | 15.3 | | 1.47 | 4.42 | 1 | 06/12/2024 19:55 | WG2303717 |

# DETECTION SUMMARY

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G1-1-3.0 | L1741416-14 | C12-C22 Hydrocarbons | 1430 | | 54.5 | 297 | 50 | 06/06/2024 23:18 | WG2299541 |
| G-G1-1-3.0 | L1741416-14 | C22-C32 Hydrocarbons | 6350 | | 98.7 | 297 | 50 | 06/06/2024 23:18 | WG2299541 |
| G-G1-1-3.0 | L1741416-14 | C32-C40 Hydrocarbons | 2430 | | 98.7 | 297 | 50 | 06/06/2024 23:18 | WG2299541 |
| G-G1-1-4.0 | L1741416-15 | C12-C22 Hydrocarbons | 341 | V | 20.3 | 110 | 20 | 06/12/2024 22:33 | WG2303717 |
| G-G1-1-4.0 | L1741416-15 | C22-C32 Hydrocarbons | 1570 | V | 36.7 | 110 | 20 | 06/12/2024 22:33 | WG2303717 |
| G-G1-1-4.0 | L1741416-15 | C32-C40 Hydrocarbons | 623 | | 36.7 | 110 | 20 | 06/12/2024 22:33 | WG2303717 |
| G-G1-1-5.0 | L1741416-16 | C12-C22 Hydrocarbons | 840 | | 19.2 | 104 | 20 | 06/06/2024 21:55 | WG2299541 |
| G-G1-1-5.0 | L1741416-16 | C22-C32 Hydrocarbons | 4040 | | 34.7 | 104 | 20 | 06/06/2024 21:55 | WG2299541 |
| G-G1-1-5.0 | L1741416-16 | C32-C40 Hydrocarbons | 1590 | | 34.7 | 104 | 20 | 06/06/2024 21:55 | WG2299541 |
| G-G2-1-2.0 | L1741416-18 | C12-C22 Hydrocarbons | 12.5 | | 0.971 | 5.30 | 1 | 06/12/2024 20:09 | WG2303717 |
| G-G2-1-2.0 | L1741416-18 | C22-C32 Hydrocarbons | 54.0 | | 1.76 | 5.30 | 1 | 06/12/2024 20:09 | WG2303717 |
| G-G2-1-2.0 | L1741416-18 | C32-C40 Hydrocarbons | 27.0 | | 1.76 | 5.30 | 1 | 06/12/2024 20:09 | WG2303717 |
| G-G2-1-3.0 | L1741416-19 | C12-C22 Hydrocarbons | 3920 | | 510 | 2780 | 500 | 06/06/2024 23:04 | WG2299541 |
| G-G2-1-3.0 | L1741416-19 | C22-C32 Hydrocarbons | 20000 | | 924 | 2780 | 500 | 06/06/2024 23:04 | WG2299541 |
| G-G2-1-3.0 | L1741416-19 | C32-C40 Hydrocarbons | 9140 | | 924 | 2780 | 500 | 06/06/2024 23:04 | WG2299541 |
| G-G2-1-4.0 | L1741416-20 | C12-C22 Hydrocarbons | 503 | | 48.5 | 264 | 50 | 06/12/2024 21:35 | WG2303717 |
| G-G2-1-4.0 | L1741416-20 | C22-C32 Hydrocarbons | 2580 | | 87.8 | 264 | 50 | 06/12/2024 21:35 | WG2303717 |
| G-G2-1-4.0 | L1741416-20 | C32-C40 Hydrocarbons | 1230 | | 87.8 | 264 | 50 | 06/12/2024 21:35 | WG2303717 |
| G-G2-1-5.0 | L1741416-21 | C12-C22 Hydrocarbons | 181 | | 19.0 | 103 | 20 | 06/06/2024 22:09 | WG2299541 |
| G-G2-1-5.0 | L1741416-21 | C22-C32 Hydrocarbons | 900 | | 34.4 | 103 | 20 | 06/06/2024 22:09 | WG2299541 |
| G-G2-1-5.0 | L1741416-21 | C32-C40 Hydrocarbons | 428 | | 34.4 | 103 | 20 | 06/06/2024 22:09 | WG2299541 |
| G-G3-1-3.0 | L1741416-24 | C12-C22 Hydrocarbons | 3.00 | J | 0.906 | 4.94 | 1 | 06/06/2024 20:18 | WG2299541 |
| G-G3-1-3.0 | L1741416-24 | C22-C32 Hydrocarbons | 4.53 | J | 1.64 | 4.94 | 1 | 06/06/2024 20:18 | WG2299541 |
| G/BS-F4-1-3.0 | L1741416-29 | C12-C22 Hydrocarbons | 2.39 | J | 0.909 | 4.96 | 1 | 06/06/2024 20:04 | WG2299541 |
| G/BS-F4-1-3.0 | L1741416-29 | C22-C32 Hydrocarbons | 2.16 | J | 1.65 | 4.96 | 1 | 06/06/2024 20:04 | WG2299541 |
| G/BS-F4-1-5.0 | L1741416-31 | C12-C22 Hydrocarbons | 2.41 | J | 0.957 | 5.22 | 1 | 06/06/2024 19:08 | WG2299541 |
| G/BS-F4-1-5.0 | L1741416-31 | C22-C32 Hydrocarbons | 8.54 | | 1.74 | 5.22 | 1 | 06/06/2024 19:08 | WG2299541 |
| G-F2-1-3.0 | L1741416-34 | C12-C22 Hydrocarbons | 67.0 | | 8.63 | 47.1 | 10 | 06/07/2024 10:21 | WG2299541 |
| G-F2-1-3.0 | L1741416-34 | C22-C32 Hydrocarbons | 267 | | 15.7 | 47.1 | 10 | 06/07/2024 10:21 | WG2299541 |
| G-F2-1-3.0 | L1741416-34 | C32-C40 Hydrocarbons | 236 | | 15.7 | 47.1 | 10 | 06/07/2024 10:21 | WG2299541 |
| G-F2-1-5.0 | L1741416-36 | C12-C22 Hydrocarbons | 9.48 | | 0.966 | 5.27 | 1 | 06/06/2024 21:00 | WG2299541 |
| G-F2-1-5.0 | L1741416-36 | C22-C32 Hydrocarbons | 8.67 | | 1.75 | 5.27 | 1 | 06/06/2024 21:00 | WG2299541 |
| G-F2-1-5.0 | L1741416-36 | C32-C40 Hydrocarbons | 10.1 | | 1.75 | 5.27 | 1 | 06/06/2024 21:00 | WG2299541 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G2-1-1.0 | L1741416-17 | PCB 1260 | 0.143 | | 0.00923 | 0.0213 | 1 | 06/10/2024 12:20 | WG2300315 |
| G/BS-F4-1-1.0 | L1741416-27 | PCB 1260 | 0.0442 | | 0.00805 | 0.0185 | 1 | 06/06/2024 00:24 | WG2298713 |
| G/BS-F4-1-2.0 | L1741416-28 | PCB 1260 | 0.0331 | | 0.00873 | 0.0201 | 1 | 06/20/2024 02:07 | WG2307723 |

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G1-1-1.0 | L1741416-12 | Acenaphthene | 0.0907 | | 0.0127 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Acenaphthylene | 0.249 | | 0.0110 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Anthracene | 0.489 | | 0.0140 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Benzo(a)anthracene | 2.61 | | 0.0138 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Benzo(b)fluoranthene | 3.25 | | 0.0146 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Benzo(k)fluoranthene | 1.10 | | 0.0139 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Benzo(g,h,i)perylene | 1.34 | | 0.0144 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Benzo(a)pyrene | 2.86 | | 0.0146 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G1-1-1.0 | L1741416-12 | Chrysene | 3.14 | | 0.0155 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Dibenz(a,h)anthracene | 0.416 | | 0.0218 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Fluoranthene | 5.25 | | 0.0707 | 0.392 | 10 | 06/08/2024 01:43 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Fluorene | 0.153 | | 0.0127 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Indeno(1,2,3-cd)pyrene | 1.60 | | 0.0221 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Naphthalene | 0.0649 | J | 0.0196 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Phenanthrene | 2.39 | | 0.0155 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| G-G1-1-1.0 | L1741416-12 | Pyrene | 4.89 | | 0.0762 | 0.392 | 10 | 06/08/2024 01:43 | WG2299140 |
| G-G1-1-2.0 | L1741416-13 | Acenaphthene | 0.0933 | | 0.00596 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Acenaphthylene | 0.0523 | | 0.00518 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Anthracene | 0.395 | | 0.00656 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Benzo(a)anthracene | 1.17 | | 0.00649 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Benzo(b)fluoranthene | 1.30 | | 0.00687 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Benzo(k)fluoranthene | 0.494 | | 0.00654 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Benzo(g,h,i)perylene | 0.555 | | 0.00673 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Benzo(a)pyrene | 1.15 | | 0.00684 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Chrysene | 1.37 | | 0.00732 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Dibenz(a,h)anthracene | 0.155 | | 0.0102 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Fluoranthene | 2.56 | | 0.0333 | 0.185 | 5 | 06/12/2024 13:36 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Fluorene | 0.311 | | 0.00599 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Indeno(1,2,3-cd)pyrene | 0.615 | | 0.0104 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Naphthalene | 0.216 | | 0.00924 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Phenanthrene | 2.55 | | 0.0366 | 0.185 | 5 | 06/12/2024 13:36 | WG2301376 |
| G-G1-1-2.0 | L1741416-13 | Pyrene | 2.29 | | 0.0358 | 0.185 | 5 | 06/12/2024 13:36 | WG2301376 |
| G-G1-1-3.0 | L1741416-14 | Fluoranthene | 0.101 | J J | 0.0892 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| G-G1-1-3.0 | L1741416-14 | Fluorene | 0.0870 | J J | 0.0804 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| G-G1-1-3.0 | L1741416-14 | Phenanthrene | 0.130 | J J | 0.0981 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| G-G1-1-3.0 | L1741416-14 | Pyrene | 0.211 | J J | 0.0962 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| G-G2-1-1.0 | L1741416-17 | Acenaphthene | 0.0184 | J J | 0.0135 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Anthracene | 0.0180 | J J | 0.0149 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Benzo(a)anthracene | 0.333 | | 0.0146 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Benzo(b)fluoranthene | 0.631 | | 0.0155 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Benzo(k)fluoranthene | 0.208 | | 0.0148 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Benzo(g,h,i)perylene | 0.316 | | 0.0153 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Benzo(a)pyrene | 0.446 | | 0.0155 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Chrysene | 0.573 | | 0.0165 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Dibenz(a,h)anthracene | 0.0978 | | 0.0231 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Fluoranthene | 0.391 | | 0.0150 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Indeno(1,2,3-cd)pyrene | 0.309 | | 0.0235 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Phenanthrene | 0.109 | | 0.0165 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-1.0 | L1741416-17 | Pyrene | 0.440 | | 0.0163 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Benzo(a)anthracene | 0.0264 | J | 0.00778 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Benzo(b)fluoranthene | 0.0435 | J | 0.00823 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Benzo(k)fluoranthene | 0.0160 | J | 0.00784 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Benzo(g,h,i)perylene | 0.0261 | J | 0.00807 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Benzo(a)pyrene | 0.0333 | J | 0.00820 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Chrysene | 0.0391 | J | 0.00877 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Fluoranthene | 0.0333 | J | 0.00796 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Indeno(1,2,3-cd)pyrene | 0.0225 | J | 0.0125 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Phenanthrene | 0.0171 | J | 0.00876 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-2.0 | L1741416-18 | Pyrene | 0.0397 | J | 0.00858 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| G-G2-1-3.0 | L1741416-19 | Benzo(b)fluoranthene | 0.0895 | J J | 0.0863 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| G-G2-1-3.0 | L1741416-19 | Chrysene | 0.118 | J J | 0.0920 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| G-G2-1-3.0 | L1741416-19 | Fluoranthene | 0.122 | J J | 0.0835 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| G-G2-1-3.0 | L1741416-19 | Naphthalene | 0.388 | J J | 0.116 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| G-G2-1-3.0 | L1741416-19 | Phenanthrene | 0.303 | J | 0.0918 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-G3-1-1.0 | L1741416-22 | Acenaphthene | 0.0173 | J | 0.0115 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Acenaphthylene | 0.0129 | J | 0.00998 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Anthracene | 0.0199 | J | 0.0127 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Benzo(a)anthracene | 0.0700 | J | 0.0124 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Benzo(b)fluoranthene | 0.0966 | | 0.0132 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Benzo(k)fluoranthene | 0.0337 | J | 0.0125 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Benzo(g,h,i)perylene | 0.0560 | J | 0.0130 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Benzo(a)pyrene | 0.0782 | | 0.0132 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Chrysene | 0.0908 | | 0.0140 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Fluoranthene | 0.186 | | 0.0128 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Fluorene | 0.0232 | J | 0.0115 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Indeno(1,2,3-cd)pyrene | 0.0536 | J | 0.0200 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Naphthalene | 0.0428 | J | 0.0178 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Phenanthrene | 0.178 | | 0.0140 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-1.0 | L1741416-22 | Pyrene | 0.175 | | 0.0138 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| G-G3-1-2.0 | L1741416-23 | Acenaphthene | 0.0369 | J | 0.00661 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Benzo(a)anthracene | 0.0205 | J | 0.00720 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Benzo(b)fluoranthene | 0.0285 | J | 0.00762 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Benzo(k)fluoranthene | 0.0107 | J | 0.00726 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Benzo(g,h,i)perylene | 0.0178 | J | 0.00747 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Benzo(a)pyrene | 0.0218 | J | 0.00760 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Chrysene | 0.0302 | J | 0.00812 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Fluoranthene | 0.0420 | | 0.00737 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Fluorene | 0.00983 | J | 0.00665 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Indeno(1,2,3-cd)pyrene | 0.0148 | J | 0.0115 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Phenanthrene | 0.0216 | J | 0.00811 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-2.0 | L1741416-23 | Pyrene | 0.0547 | | 0.00795 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| G-G3-1-3.0 | L1741416-24 | Benzo(a)anthracene | 0.00766 | J | 0.00725 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| G-G3-1-3.0 | L1741416-24 | Benzo(b)fluoranthene | 0.00960 | J | 0.00767 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| G-G3-1-3.0 | L1741416-24 | Chrysene | 0.0103 | J | 0.00818 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| G-G3-1-3.0 | L1741416-24 | Fluoranthene | 0.0101 | J | 0.00742 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| G-G3-1-3.0 | L1741416-24 | Pyrene | 0.0143 | J | 0.00801 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| G/BS-F4-1-1.0 | L1741416-27 | Anthracene | 0.0144 | J | 0.0130 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Benzo(a)anthracene | 0.0538 | J | 0.0128 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Benzo(b)fluoranthene | 0.0986 | | 0.0135 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Benzo(k)fluoranthene | 0.0321 | J | 0.0129 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Benzo(g,h,i)perylene | 0.0406 | J | 0.0133 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Benzo(a)pyrene | 0.0526 | J | 0.0135 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Chrysene | 0.0532 | J | 0.0144 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Fluoranthene | 0.0909 | | 0.0131 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Indeno(1,2,3-cd)pyrene | 0.0361 | J | 0.0205 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Naphthalene | 0.0389 | J | 0.0182 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Phenanthrene | 0.0694 | J | 0.0144 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| G/BS-F4-1-1.0 | L1741416-27 | Pyrene | 0.0781 | | 0.0142 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-F4-1-2.0 | L1741416-28 | Acenaphthene | 0.0536 | J | 0.0128 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Acenaphthylene | 0.0259 | J | 0.0111 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Anthracene | 0.187 | | 0.0141 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Benzo(a)anthracene | 0.654 | | 0.0138 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Benzo(b)fluoranthene | 0.926 | | 0.0147 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Benzo(k)fluoranthene | 0.304 | | 0.0140 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Benzo(g,h,i)perylene | 0.440 | | 0.0144 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Benzo(a)pyrene | 0.672 | | 0.0147 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Chrysene | 0.731 | | 0.0156 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Dibenz(a,h)anthracene | 0.116 | | 0.0219 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Fluoranthene | 1.08 | | 0.0142 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Fluorene | 0.0510 | J | 0.0128 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Indeno(1,2,3-cd)pyrene | 0.461 | | 0.0222 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Naphthalene | 0.0699 | J | 0.0198 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Phenanthrene | 0.673 | | 0.0156 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G/BS-F4-1-2.0 | L1741416-28 | Pyrene | 1.31 | | 0.0154 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| G-F2-1-1.0 | L1741416-32 | Acenaphthene | 0.0688 | | 0.00644 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Acenaphthylene | 0.0738 | | 0.00560 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Anthracene | 0.195 | | 0.00708 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Benzo(a)anthracene | 0.617 | | 0.00701 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Benzo(b)fluoranthene | 1.03 | | 0.00742 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Benzo(k)fluoranthene | 0.371 | | 0.00707 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Benzo(g,h,i)perylene | 0.295 | | 0.00727 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Benzo(a)pyrene | 0.731 | | 0.00739 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Chrysene | 0.742 | | 0.00790 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Dibenz(a,h)anthracene | 0.0900 | | 0.0110 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Fluoranthene | 1.07 | | 0.00718 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Fluorene | 0.158 | | 0.00647 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Indeno(1,2,3-cd)pyrene | 0.338 | | 0.0112 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Naphthalene | 0.0768 | | 0.00998 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Phenanthrene | 0.875 | | 0.00789 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-1.0 | L1741416-32 | Pyrene | 1.09 | | 0.00774 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| G-F2-1-2.0 | L1741416-33 | Benzo(a)anthracene | 14.5 | | 1.32 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Benzo(b)fluoranthene | 25.9 | | 1.40 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Benzo(k)fluoranthene | 8.52 | | 1.33 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Benzo(g,h,i)perylene | 13.1 | | 1.37 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Benzo(a)pyrene | 20.0 | | 1.40 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Chrysene | 22.6 | | 1.49 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Dibenz(a,h)anthracene | 4.44 | J | 2.08 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Fluoranthene | 14.8 | | 1.35 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Indeno(1,2,3-cd)pyrene | 13.0 | | 2.12 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Phenanthrene | 2.84 | J | 1.49 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-2.0 | L1741416-33 | Pyrene | 18.0 | | 1.46 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| G-F2-1-3.0 | L1741416-34 | Acenaphthene | 0.201 | J | 0.0635 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Anthracene | 0.280 | J | 0.0699 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Benzo(a)anthracene | 7.40 | | 0.0691 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Benzo(b)fluoranthene | 14.1 | | 0.0732 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Benzo(k)fluoranthene | 5.11 | | 0.0697 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Benzo(g,h,i)perylene | 7.02 | | 0.0717 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Benzo(a)pyrene | 10.9 | | 0.0729 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Chrysene | 12.5 | | 0.0780 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Dibenz(a,h)anthracene | 2.21 | | 0.109 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Fluoranthene | 5.51 | | 0.0708 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Fluorene | 0.0642 | J | 0.0638 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Indeno(1,2,3-cd)pyrene | 6.76 | | 0.111 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Naphthalene | 0.280 | J | 0.0985 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |

# DETECTION SUMMARY

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

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-F2-1-3.0 | L1741416-34 | Phenanthrene | 1.27 | | 0.0779 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-3.0 | L1741416-34 | Pyrene | 8.79 | | 0.0763 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| G-F2-1-4.0 | L1741416-35 | Benzo(a)anthracene | 1.73 | | 0.144 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Benzo(b)fluoranthene | 4.25 | | 0.153 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Benzo(k)fluoranthene | 1.37 | | 0.146 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Benzo(g,h,i)perylene | 1.53 | | 0.151 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Benzo(a)pyrene | 2.19 | | 0.153 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Chrysene | 3.49 | | 0.163 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Dibenz(a,h)anthracene | 0.533 | J | 0.228 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Fluoranthene | 1.26 | | 0.148 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Indeno(1,2,3-cd)pyrene | 1.48 | | 0.232 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Naphthalene | 0.270 | J | 0.206 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Phenanthrene | 0.522 | J | 0.163 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-4.0 | L1741416-35 | Pyrene | 1.85 | | 0.161 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| G-F2-1-5.0 | L1741416-36 | Naphthalene | 0.246 | J | 0.220 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| G-F2-1-5.0 | L1741416-36 | Phenanthrene | 0.200 | J | 0.174 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.9 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 152 | | 1.36 | 4.09 | 25 | 06/03/2024 17:54 | WG2297459 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.1* | | | *77.0-120* | | *06/03/2024 17:54* | WG2297459 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0597 | 0.0818 | 1 | 06/04/2024 20:03 | WG2298438 |
| Acrylonitrile | U | | 0.00590 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| Benzene | 0.000909 | J | 0.000764 | 0.00164 | 1 | 06/04/2024 20:03 | WG2298438 |
| Bromobenzene | U | | 0.00147 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| Bromodichloromethane | U | | 0.00119 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Bromoform | U | | 0.00191 | 0.0409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Bromomethane | U | | 0.00322 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| n-Butylbenzene | 0.0497 | | 0.00859 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| sec-Butylbenzene | 0.0615 | | 0.00471 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| tert-Butylbenzene | U | | 0.00319 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| Carbon tetrachloride | U | | 0.00147 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| Chlorobenzene | U | | 0.000343 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Chlorodibromomethane | U | | 0.00100 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Chloroethane | U | | 0.00278 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| Chloroform | U | | 0.00168 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Chloromethane | U | | 0.00712 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00141 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000736 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00638 | 0.0409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Dibromomethane | U | | 0.00123 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2-Dichlorobenzene | U | | 0.000695 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,3-Dichlorobenzene | U | | 0.000981 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,4-Dichlorobenzene | U | | 0.00114 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00263 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000803 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00106 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.000991 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.00120 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00170 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00232 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00132 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000819 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00124 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00186 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00226 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Di-isopropyl ether | U | | 0.000671 | 0.00164 | 1 | 06/04/2024 20:03 | WG2298438 |
| Ethylbenzene | 0.00208 | J | 0.00121 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.00981 | 0.0409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Isopropylbenzene | 0.0144 | | 0.000695 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| p-Isopropyltoluene | U | | 0.00417 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.104 | 0.164 | 1 | 06/04/2024 20:03 | WG2298438 |
| Methylene Chloride | U | | 0.0109 | 0.0409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00373 | 0.0409 | 1 | 06/04/2024 20:03 | WG2298438 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000572 | 0.00164 | 1 | 06/04/2024 20:03 | WG2298438 |
| Naphthalene | U | | 0.00798 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| n-Propylbenzene | 0.0329 | | 0.00155 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| Styrene | U | | 0.000375 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00155 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00114 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00123 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Tetrachloroethene | U | | 0.00147 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Toluene | 0.00312 | J | 0.00213 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0120 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00720 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00151 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.000976 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Trichloroethene | U | | 0.000955 | 0.00164 | 1 | 06/04/2024 20:03 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00135 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00265 | 0.0204 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2,4-Trimethylbenzene | U | | 0.00258 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,2,3-Trimethylbenzene | U | | 0.00258 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00327 | 0.00818 | 1 | 06/04/2024 20:03 | WG2298438 |
| Vinyl chloride | U | | 0.00190 | 0.00409 | 1 | 06/04/2024 20:03 | WG2298438 |
| Xylenes, Total | 0.00662 | J | 0.00144 | 0.0106 | 1 | 06/04/2024 20:03 | WG2298438 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *06/04/2024 20:03* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *120* | | | *67.0-138* | | *06/04/2024 20:03* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *91.3* | | | *70.0-130* | | *06/04/2024 20:03* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.12 | J | 0.953 | 5.20 | 1 | 06/06/2024 02:04 | WG2299427 |
| C22-C32 Hydrocarbons | U | | 1.73 | 5.20 | 1 | 06/06/2024 02:04 | WG2299427 |
| C32-C40 Hydrocarbons | U | | 1.73 | 5.20 | 1 | 06/06/2024 02:04 | WG2299427 |
| *(S) o-Terphenyl* | *58.3* | | | *18.0-148* | | *06/06/2024 02:04* | WG2299427 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.8 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 3.07 | B J | 1.35 | 4.06 | 25 | 06/03/2024 18:14 | WG2297459 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.4* | | | *77.0-120* | | *06/03/2024 18:14* | WG2297459 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0593 | 0.0813 | 1 | 06/04/2024 20:32 | WG2298438 |
| Acrylonitrile | U | | 0.00587 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| Benzene | U | | 0.000759 | 0.00163 | 1 | 06/04/2024 20:32 | WG2298438 |
| Bromobenzene | U | | 0.00146 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| Bromodichloromethane | U | | 0.00118 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Bromoform | U | | 0.00190 | 0.0406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Bromomethane | U | | 0.00320 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| n-Butylbenzene | U | | 0.00853 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| sec-Butylbenzene | U | | 0.00468 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| tert-Butylbenzene | U | | 0.00317 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| Carbon tetrachloride | U | | 0.00146 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| Chlorobenzene | U | | 0.000341 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Chlorodibromomethane | U | | 0.000995 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Chloroethane | U | | 0.00276 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| Chloroform | U | | 0.00167 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Chloromethane | U | | 0.00707 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00141 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000731 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00634 | 0.0406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00105 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Dibromomethane | U | | 0.00122 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2-Dichlorobenzene | U | | 0.000691 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,3-Dichlorobenzene | U | | 0.000975 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,4-Dichlorobenzene | U | | 0.00114 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00262 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000798 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00105 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.000985 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.00119 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00169 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00231 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00131 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000814 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00123 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00185 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00224 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Di-isopropyl ether | U | | 0.000666 | 0.00163 | 1 | 06/04/2024 20:32 | WG2298438 |
| Ethylbenzene | U | | 0.00120 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.00975 | 0.0406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Isopropylbenzene | U | | 0.000691 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| p-Isopropyltoluene | U | | 0.00414 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.103 | 0.163 | 1 | 06/04/2024 20:32 | WG2298438 |
| Methylene Chloride | U | | 0.0108 | 0.0406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00371 | 0.0406 | 1 | 06/04/2024 20:32 | WG2298438 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000569 | 0.00163 | 1 | 06/04/2024 20:32 | WG2298438 |
| Naphthalene | U | | 0.00793 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| n-Propylbenzene | U | | 0.00154 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| Styrene | U | | 0.000372 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00154 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00113 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00123 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Tetrachloroethene | U | | 0.00146 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Toluene | U | | 0.00211 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0119 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00715 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00150 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.000970 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Trichloroethene | U | | 0.000949 | 0.00163 | 1 | 06/04/2024 20:32 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00134 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00263 | 0.0203 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2,4-Trimethylbenzene | U | | 0.00257 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,2,3-Trimethylbenzene | U | | 0.00257 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00325 | 0.00813 | 1 | 06/04/2024 20:32 | WG2298438 |
| Vinyl chloride | U | | 0.00189 | 0.00406 | 1 | 06/04/2024 20:32 | WG2298438 |
| Xylenes, Total | U | | 0.00143 | 0.0106 | 1 | 06/04/2024 20:32 | WG2298438 |
| *(S) Toluene-d8* | *105* | | | *75.0-131* | | *06/04/2024 20:32* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/04/2024 20:32* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *95.7* | | | *70.0-130* | | *06/04/2024 20:32* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.954 | 5.21 | 1 | 06/06/2024 02:18 | WG2299427 |
| C22-C32 Hydrocarbons | U | | 1.73 | 5.21 | 1 | 06/06/2024 02:18 | WG2299427 |
| C32-C40 Hydrocarbons | U | | 1.73 | 5.21 | 1 | 06/06/2024 02:18 | WG2299427 |
| *(S) o-Terphenyl* | *73.0* | | | *18.0-148* | | *06/06/2024 02:18* | WG2299427 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.5 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 303 | | 1.42 | 4.28 | 25 | 06/03/2024 18:33 | WG2297459 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.4* | | | *77.0-120* | | *06/03/2024 18:33* | WG2297459 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0625 | 0.0856 | 1 | 06/04/2024 20:54 | WG2298438 |
| Acrylonitrile | U | | 0.00618 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| Benzene | 0.00226 | | 0.000800 | 0.00171 | 1 | 06/04/2024 20:54 | WG2298438 |
| Bromobenzene | U | | 0.00154 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| Bromodichloromethane | U | | 0.00124 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Bromoform | U | | 0.00200 | 0.0428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Bromomethane | U | | 0.00337 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| n-Butylbenzene | 2.62 | | 0.00899 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| sec-Butylbenzene | 1.92 | | 0.00493 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| tert-Butylbenzene | 0.164 | | 0.00334 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| Carbon tetrachloride | U | | 0.00154 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| Chlorobenzene | U | | 0.000360 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Chlorodibromomethane | U | | 0.00105 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Chloroethane | U | | 0.00291 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| Chloroform | U | | 0.00176 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Chloromethane | U | | 0.00745 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00148 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000771 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00668 | 0.0428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00111 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Dibromomethane | U | | 0.00128 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2-Dichlorobenzene | 0.390 | | 0.000728 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,3-Dichlorobenzene | 0.298 | | 0.00103 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,4-Dichlorobenzene | 1.42 | | 0.00120 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00276 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000841 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00111 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.00104 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.00126 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00178 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00243 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00139 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000858 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00130 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00195 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00236 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Di-isopropyl ether | U | | 0.000702 | 0.00171 | 1 | 06/04/2024 20:54 | WG2298438 |
| Ethylbenzene | 0.00140 | J | 0.00126 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.0103 | 0.0428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Isopropylbenzene | 0.834 | | 0.000728 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| p-Isopropyltoluene | 0.00669 | J | 0.00437 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.109 | 0.171 | 1 | 06/04/2024 20:54 | WG2298438 |
| Methylene Chloride | U | | 0.0114 | 0.0428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00390 | 0.0428 | 1 | 06/04/2024 20:54 | WG2298438 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000599 | 0.00171 | 1 | 06/04/2024 20:54 | WG2298438 |
| Naphthalene | U | | 0.00836 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| n-Propylbenzene | 0.0702 | | 0.00163 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| Styrene | U | | 0.000392 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00162 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00119 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00129 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Tetrachloroethene | U | | 0.00153 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Toluene | 0.00353 | J | 0.00223 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0126 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2,4-Trichlorobenzene | 0.120 | | 0.00753 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00158 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.00102 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Trichloroethene | U | | 0.00100 | 0.00171 | 1 | 06/04/2024 20:54 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00142 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00277 | 0.0214 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2,4-Trimethylbenzene | 0.00794 | J | 0.00271 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,2,3-Trimethylbenzene | 0.0288 | | 0.00271 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00342 | 0.00856 | 1 | 06/04/2024 20:54 | WG2298438 |
| Vinyl chloride | U | | 0.00199 | 0.00428 | 1 | 06/04/2024 20:54 | WG2298438 |
| Xylenes, Total | 0.139 | | 0.00151 | 0.0111 | 1 | 06/04/2024 20:54 | WG2298438 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/04/2024 20:54* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *133* | | | *67.0-138* | | *06/04/2024 20:54* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *0.000* | J2 | | *70.0-130* | | *06/04/2024 20:54* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 3510 | | 48.6 | 265 | 50 | 06/06/2024 11:11 | WG2299427 |
| C22-C32 Hydrocarbons | 7590 | | 88.1 | 265 | 50 | 06/06/2024 11:11 | WG2299427 |
| C32-C40 Hydrocarbons | 2110 | | 88.1 | 265 | 50 | 06/06/2024 11:11 | WG2299427 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *06/06/2024 11:11* | WG2299427 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.0 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 486 | | 14.3 | 42.9 | 250 | 06/07/2024 01:26 | WG2300304 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *87.5* | | | *77.0-120* | | *06/07/2024 01:26* | WG2300304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0627 | 0.0858 | 1 | 06/04/2024 21:14 | WG2298438 |
| Acrylonitrile | U | | 0.00620 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| Benzene | 0.00204 | | 0.000802 | 0.00172 | 1 | 06/04/2024 21:14 | WG2298438 |
| Bromobenzene | U | | 0.00155 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| Bromodichloromethane | U | | 0.00124 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Bromoform | U | | 0.00201 | 0.0429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Bromomethane | U | | 0.00338 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| n-Butylbenzene | 2.30 | | 0.00901 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| sec-Butylbenzene | 1.70 | | 0.00494 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| tert-Butylbenzene | 0.130 | | 0.00335 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| Carbon tetrachloride | U | | 0.00154 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| Chlorobenzene | U | | 0.000361 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Chlorodibromomethane | U | | 0.00105 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Chloroethane | U | | 0.00292 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| Chloroform | U | | 0.00177 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Chloromethane | U | | 0.00747 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00149 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000773 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00670 | 0.0429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00111 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Dibromomethane | U | | 0.00129 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2-Dichlorobenzene | 0.275 | | 0.000730 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,3-Dichlorobenzene | 0.223 | | 0.00103 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,4-Dichlorobenzene | 0.956 | | 0.00120 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00276 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000843 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00111 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.00104 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.00126 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00179 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00244 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00139 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000860 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00130 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00196 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00237 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Di-isopropyl ether | U | | 0.000704 | 0.00172 | 1 | 06/04/2024 21:14 | WG2298438 |
| Ethylbenzene | 0.00362 | J | 0.00127 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.0103 | 0.0429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Isopropylbenzene | 1.10 | | 0.000730 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| p-Isopropyltoluene | U | | 0.00438 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.109 | 0.172 | 1 | 06/04/2024 21:14 | WG2298438 |
| Methylene Chloride | U | | 0.0114 | 0.0429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00391 | 0.0429 | 1 | 06/04/2024 21:14 | WG2298438 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000601 | 0.00172 | 1 | 06/04/2024 21:14 | WG2298438 |
| Naphthalene | U | | 0.00838 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| n-Propylbenzene | 0.323 | | 0.00163 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| Styrene | U | | 0.000393 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00163 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00119 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00129 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Tetrachloroethene | U | | 0.00154 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Toluene | 0.00342 | J | 0.00223 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0126 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2,4-Trichlorobenzene | 0.0697 | | 0.00755 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00158 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.00103 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Trichloroethene | U | | 0.00100 | 0.00172 | 1 | 06/04/2024 21:14 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00142 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00278 | 0.0215 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2,4-Trimethylbenzene | 0.00458 | J | 0.00271 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,2,3-Trimethylbenzene | 0.0809 | | 0.00271 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00343 | 0.00858 | 1 | 06/04/2024 21:14 | WG2298438 |
| Vinyl chloride | U | | 0.00199 | 0.00429 | 1 | 06/04/2024 21:14 | WG2298438 |
| Xylenes, Total | 0.123 | | 0.00151 | 0.0112 | 1 | 06/04/2024 21:14 | WG2298438 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/04/2024 21:14* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *120* | | | *67.0-138* | | *06/04/2024 21:14* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *83.2* | | | *70.0-130* | | *06/04/2024 21:14* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 681 | | 4.83 | 26.3 | 5 | 06/06/2024 03:45 | WG2299427 |
| C22-C32 Hydrocarbons | 1410 | | 35.0 | 105 | 20 | 06/06/2024 11:25 | WG2299427 |
| C32-C40 Hydrocarbons | 349 | | 8.75 | 26.3 | 5 | 06/06/2024 03:45 | WG2299427 |
| *(S) o-Terphenyl* | *57.1* | | | *18.0-148* | | *06/06/2024 03:45* | WG2299427 |
| *(S) o-Terphenyl* | *107* | J7 | | *18.0-148* | | *06/06/2024 11:25* | WG2299427 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.8 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.40 | J | 1.19 | 3.57 | 25 | 06/07/2024 19:44 | WG2300918 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/07/2024 19:44* | WG2300918 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0530 | 0.0726 | 1 | 06/04/2024 21:42 | WG2298438 |
| Acrylonitrile | U | | 0.00524 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| Benzene | 0.00518 | | 0.000678 | 0.00145 | 1 | 06/04/2024 21:42 | WG2298438 |
| Bromobenzene | U | | 0.00131 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| Bromodichloromethane | U | | 0.00105 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Bromoform | U | | 0.00170 | 0.0363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Bromomethane | U | | 0.00286 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| n-Butylbenzene | 0.0338 | | 0.00762 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| sec-Butylbenzene | 0.0193 | | 0.00418 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| tert-Butylbenzene | U | | 0.00283 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| Carbon tetrachloride | U | | 0.00130 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| Chlorobenzene | U | | 0.000305 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Chlorodibromomethane | U | | 0.000888 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Chloroethane | U | | 0.00247 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| Chloroform | U | | 0.00150 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Chloromethane | U | | 0.00631 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00126 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000653 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00566 | 0.0363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.000941 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Dibromomethane | U | | 0.00109 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2-Dichlorobenzene | 0.00303 | J | 0.000617 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,3-Dichlorobenzene | 0.00203 | J | 0.000871 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,4-Dichlorobenzene | 0.00952 | | 0.00102 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00234 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000713 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.000942 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.000880 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.00107 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00151 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00206 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00117 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000727 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00110 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00165 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00200 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Di-isopropyl ether | U | | 0.000595 | 0.00145 | 1 | 06/04/2024 21:42 | WG2298438 |
| Ethylbenzene | U | | 0.00107 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.00871 | 0.0363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Isopropylbenzene | 0.0105 | | 0.000617 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| p-Isopropyltoluene | U | | 0.00370 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.0922 | 0.145 | 1 | 06/04/2024 21:42 | WG2298438 |
| Methylene Chloride | U | | 0.00964 | 0.0363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00331 | 0.0363 | 1 | 06/04/2024 21:42 | WG2298438 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000508 | 0.00145 | 1 | 06/04/2024 21:42 | WG2298438 |
| Naphthalene | 0.00827 | J | 0.00708 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| n-Propylbenzene | 0.00282 | J | 0.00138 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| Styrene | U | | 0.000332 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00138 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00101 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00109 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Tetrachloroethene | U | | 0.00130 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Toluene | 0.00491 | J | 0.00189 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0106 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00639 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00134 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.000867 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Trichloroethene | U | | 0.000848 | 0.00145 | 1 | 06/04/2024 21:42 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00120 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00235 | 0.0181 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2,4-Trimethylbenzene | U | | 0.00229 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,2,3-Trimethylbenzene | U | | 0.00229 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00290 | 0.00726 | 1 | 06/04/2024 21:42 | WG2298438 |
| Vinyl chloride | U | | 0.00168 | 0.00363 | 1 | 06/04/2024 21:42 | WG2298438 |
| Xylenes, Total | 0.00467 | J | 0.00128 | 0.00944 | 1 | 06/04/2024 21:42 | WG2298438 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/04/2024 21:42* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/04/2024 21:42* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *94.7* | | | *70.0-130* | | *06/04/2024 21:42* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 3.47 | J | 0.886 | 4.83 | 1 | 06/06/2024 02:33 | WG2299427 |
| C22-C32 Hydrocarbons | 8.94 | | 1.61 | 4.83 | 1 | 06/06/2024 02:33 | WG2299427 |
| C32-C40 Hydrocarbons | 3.72 | J | 1.61 | 4.83 | 1 | 06/06/2024 02:33 | WG2299427 |
| *(S) o-Terphenyl* | *47.7* | | | *18.0-148* | | *06/06/2024 02:33* | WG2299427 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.6 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 30.6 | | 1.58 | 4.76 | 41.5 | 06/04/2024 01:41 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *06/04/2024 01:41* | WG2297583 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0695 | 0.0952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Acrylonitrile | U | | 0.00687 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Benzene | 0.00576 | | 0.000889 | 0.00190 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Bromobenzene | U | | 0.00171 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Bromodichloromethane | U | | 0.00138 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Bromoform | U | | 0.00223 | 0.0476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Bromomethane | U | | 0.00375 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| n-Butylbenzene | 0.0263 | | 0.0100 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| sec-Butylbenzene | 0.00691 | J | 0.00548 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| tert-Butylbenzene | U | | 0.00372 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Carbon tetrachloride | U | | 0.00171 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Chlorobenzene | U | | 0.000400 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Chlorodibromomethane | U | | 0.00117 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Chloroethane | U | | 0.00324 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Chloroform | U | | 0.00196 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Chloromethane | U | | 0.00828 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00165 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000857 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00742 | 0.0476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00124 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Dibromomethane | U | | 0.00143 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2-Dichlorobenzene | U | | 0.000810 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,3-Dichlorobenzene | U | | 0.00114 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,4-Dichlorobenzene | U | | 0.00133 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00306 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000935 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00124 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.00116 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.00140 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00198 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00271 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00154 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000955 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00145 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00217 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00263 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Di-isopropyl ether | U | | 0.000781 | 0.00190 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Ethylbenzene | 0.0168 | | 0.00140 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.0114 | 0.0476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Isopropylbenzene | 0.00405 | J | 0.000810 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| p-Isopropyltoluene | 0.0369 | | 0.00485 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.120 | 0.190 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Methylene Chloride | U | | 0.0126 | 0.0476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00434 | 0.0476 | 1.66 | 06/04/2024 22:11 | WG2298438 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000667 | 0.00190 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Naphthalene | 0.211 | | 0.00929 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| n-Propylbenzene | 0.0119 | | 0.00181 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Styrene | U | | 0.000436 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00180 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00132 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00143 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Tetrachloroethene | U | | 0.00171 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Toluene | 0.0177 | | 0.00248 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0140 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00838 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00176 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.00114 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Trichloroethene | U | | 0.00111 | 0.00190 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00157 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00309 | 0.0239 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2,4-Trimethylbenzene | 0.0176 | | 0.00301 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,2,3-Trimethylbenzene | 0.0107 | | 0.00301 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00381 | 0.00952 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Vinyl chloride | U | | 0.00221 | 0.00476 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| Xylenes, Total | 0.0249 | | 0.00168 | 0.0124 | 1.66 | 06/04/2024 22:11 | WG2298438 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* | | *06/04/2024 22:11* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/04/2024 22:11* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *87.7* | | | *70.0-130* | | *06/04/2024 22:11* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 5.91 | | 0.800 | 4.37 | 1 | 06/06/2024 20:46 | WG2299541 |
| C22-C32 Hydrocarbons | 23.9 | | 1.45 | 4.37 | 1 | 06/06/2024 20:46 | WG2299541 |
| C32-C40 Hydrocarbons | 9.42 | | 1.45 | 4.37 | 1 | 06/06/2024 20:46 | WG2299541 |
| *(S) o-Terphenyl* | *63.2* | | | *18.0-148* | | *06/06/2024 20:46* | WG2299541 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 06/04/2024 13:30 | WG2296182 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Arsenic | U | | 0.180 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Barium | 2.95 | | 0.381 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 07/02/2024 18:39 | WG2308134 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Chromium | 1.31 | J | 1.24 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Copper | U | | 1.51 | 5.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Cobalt | 0.165 | J | 0.0596 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Lead | U | | 0.849 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Molybdenum | U | | 0.348 | 5.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Nickel | U | | 0.816 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Selenium | U | | 0.300 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Silver | U | | 0.0700 | 2.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Thallium | U | | 0.121 | 2.00 | 1 | 07/02/2024 18:39 | WG2308134 |
| Vanadium | U | | 0.664 | 5.00 | 1 | 07/02/2024 14:41 | WG2308134 |
| Zinc | 3.44 | J | 3.02 | 25.0 | 1 | 07/02/2024 14:41 | WG2308134 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 06/05/2024 14:14 | WG2299053 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.9* | | | *78.0-120* | | *06/05/2024 14:14* | WG2299053 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/05/2024 22:54 | WG2299010 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/05/2024 22:54 | WG2299010 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/05/2024 22:54 | WG2299010 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Chloroform | 0.912 | J | 0.111 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/05/2024 22:54 | WG2299010 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/05/2024 22:54 | WG2299010 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/05/2024 22:54 | WG2299010 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/05/2024 22:54 | WG2299010 |
| *(S) Toluene-d8* | *99.7* | | | *80.0-120* | | *06/05/2024 22:54* | WG2299010 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *77.0-126* | | *06/05/2024 22:54* | WG2299010 |
| *(S) 1,2-Dichloroethane-d4* | *97.3* | | | *70.0-130* | | *06/05/2024 22:54* | WG2299010 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 13:25 | WG2296791 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 13:25 | WG2296791 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 13:25 | WG2296791 |
| *(S) o-Terphenyl* | *67.4* | | | *52.0-156* | | *06/02/2024 13:25* | WG2296791 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/05/2024 23:13 | WG2299010 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/05/2024 23:13 | WG2299010 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/05/2024 23:13 | WG2299010 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/05/2024 23:13 | WG2299010 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/05/2024 23:13 | WG2299010 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/05/2024 23:13 | WG2299010 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/05/2024 23:13 | WG2299010 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *06/05/2024 23:13* | WG2299010 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *77.0-126* | | *06/05/2024 23:13* | WG2299010 |
| *(S) 1,2-Dichloroethane-d4* | *96.1* | | | *70.0-130* | | *06/05/2024 23:13* | WG2299010 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 85.0 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0654 | | 0.0212 | 0.0471 | 1 | 06/01/2024 14:55 | WG2296379 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 7.56 | | 0.640 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| Arsenic | 8.18 | | 0.609 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| Barium | 265 | | 0.100 | 0.588 | 1 | 06/08/2024 10:14 | WG2297323 |
| Beryllium | 0.525 | | 0.0371 | 0.235 | 1 | 06/08/2024 10:14 | WG2297323 |
| Cadmium | 0.332 | J | 0.0554 | 0.588 | 1 | 06/08/2024 10:14 | WG2297323 |
| Chromium | 66.4 | | 0.156 | 1.18 | 1 | 06/08/2024 10:14 | WG2297323 |
| Cobalt | 10.0 | | 0.0954 | 1.18 | 1 | 06/08/2024 10:14 | WG2297323 |
| Copper | 28.0 | | 0.471 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| Lead | 12.2 | | 0.245 | 0.588 | 1 | 06/08/2024 10:14 | WG2297323 |
| Molybdenum | 0.441 | J | 0.128 | 0.588 | 1 | 06/08/2024 10:14 | WG2297323 |
| Nickel | 43.9 | | 0.155 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| Selenium | U | | 0.899 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| Silver | 0.513 | J | 0.149 | 1.18 | 1 | 06/08/2024 10:14 | WG2297323 |
| Thallium | U | | 0.463 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| Vanadium | 64.4 | | 0.595 | 2.35 | 1 | 06/08/2024 10:14 | WG2297323 |
| Zinc | 64.6 | | 0.979 | 5.88 | 1 | 06/08/2024 10:14 | WG2297323 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 2.43 | B J T8 | 1.17 | 3.53 | 25 | 06/16/2024 13:58 | WG2306105 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *116* | | | *77.0-120* | | *06/16/2024 13:58* | WG2306105 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0139 | 0.0400 | 1 | 06/05/2024 23:28 | WG2298713 |
| PCB 1221 | U | | 0.0139 | 0.0400 | 1 | 06/05/2024 23:28 | WG2298713 |
| PCB 1232 | U | | 0.0139 | 0.0400 | 1 | 06/05/2024 23:28 | WG2298713 |
| PCB 1242 | U | | 0.0139 | 0.0400 | 1 | 06/05/2024 23:28 | WG2298713 |
| PCB 1248 | U | | 0.00868 | 0.0200 | 1 | 06/05/2024 23:28 | WG2298713 |
| PCB 1254 | U | | 0.00868 | 0.0200 | 1 | 06/05/2024 23:28 | WG2298713 |
| PCB 1260 | U | | 0.00868 | 0.0200 | 1 | 06/05/2024 23:28 | WG2298713 |
| *(S) Decachlorobiphenyl* | *78.1* | | | *10.0-135* | | *06/05/2024 23:28* | WG2298713 |
| *(S) Tetrachloro-m-xylene* | *79.6* | | | *10.0-139* | | *06/05/2024 23:28* | WG2298713 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | 0.0907 | | 0.0127 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Acenaphthylene | 0.249 | | 0.0110 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Anthracene | 0.489 | | 0.0140 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Benzidine | U | | 0.147 | 3.93 | 2 | 06/06/2024 22:14 | WG2299140 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 2.61 | | 0.0138 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Benzo(b)fluoranthene | 3.25 | | 0.0146 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Benzo(k)fluoranthene | 1.10 | | 0.0139 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Benzo(g,h,i)perylene | 1.34 | | 0.0144 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Benzo(a)pyrene | 2.86 | | 0.0146 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0235 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0259 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0339 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0275 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.0138 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0273 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Chrysene | 3.14 | | 0.0155 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Dibenz(a,h)anthracene | 0.416 | | 0.0218 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0232 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0238 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0233 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0289 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0225 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0256 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Fluoranthene | 5.25 | | 0.0707 | 0.392 | 10 | 06/08/2024 01:43 | WG2299140 |
| Fluorene | 0.153 | | 0.0127 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Hexachlorobenzene | U | | 0.0278 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0264 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Hexachlorocyclopentadiene | U | | 0.0412 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Hexachloroethane | U | | 0.0308 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 1.60 | | 0.0221 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Isophorone | U | | 0.0240 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Naphthalene | 0.0649 | J | 0.0196 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Nitrobenzene | U | | 0.0273 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.116 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| n-Nitrosodiphenylamine | U | | 0.0593 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0261 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Phenanthrene | 2.39 | | 0.0155 | 0.0783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0245 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0993 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Di-n-butyl phthalate | U | | 0.0268 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Diethyl phthalate | U | | 0.0259 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Dimethyl phthalate | U | | 0.166 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0529 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Pyrene | 4.89 | | 0.0762 | 0.392 | 10 | 06/08/2024 01:43 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0245 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 4-Chloro-3-methylphenol | U | | 0.0254 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2-Chlorophenol | U | | 0.0259 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0228 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0205 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.178 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.184 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2-Nitrophenol | U | | 0.0280 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 4-Nitrophenol | U | | 0.0245 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Pentachlorophenol | U | | 0.0211 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| Phenol | U | | 0.0315 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0252 | 0.783 | 2 | 06/06/2024 22:14 | WG2299140 |
| *(S) 2-Fluorophenol* | *68.3* | | | *12.0-120* | | *06/06/2024 22:14* | WG2299140 |
| *(S) 2-Fluorophenol* | *72.0* | | | *12.0-120* | | *06/08/2024 01:43* | WG2299140 |
| *(S) Phenol-d5* | *62.2* | | | *10.0-120* | | *06/08/2024 01:43* | WG2299140 |
| *(S) Phenol-d5* | *61.0* | | | *10.0-120* | | *06/06/2024 22:14* | WG2299140 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Nitrobenzene-d5* | *60.7* | | | *10.0-122* | | *06/08/2024 01:43* | WG2299140 |
| *(S) Nitrobenzene-d5* | *58.8* | | | *10.0-122* | | *06/06/2024 22:14* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *65.5* | | | *15.0-120* | | *06/06/2024 22:14* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *75.6* | | | *15.0-120* | | *06/08/2024 01:43* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *65.2* | | | *10.0-127* | | *06/08/2024 01:43* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *69.1* | | | *10.0-127* | | *06/06/2024 22:14* | WG2299140 |
| *(S) p-Terphenyl-d14* | *74.4* | | | *10.0-120* | | *06/08/2024 01:43* | WG2299140 |
| *(S) p-Terphenyl-d14* | *65.5* | | | *10.0-120* | | *06/06/2024 22:14* | WG2299140 |

**Sample Narrative:**

L1741416-12 WG2299140: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.5 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.132 | | 0.0199 | 0.0442 | 1 | 06/01/2024 14:57 | WG2296379 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 7.34 | | 0.601 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| Arsenic | 2.31 | | 0.573 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| Barium | 260 | | 0.0942 | 0.553 | 1 | 06/06/2024 00:23 | WG2297407 |
| Beryllium | 0.672 | | 0.0348 | 0.221 | 1 | 06/06/2024 00:23 | WG2297407 |
| Cadmium | 0.180 | J | 0.0521 | 0.553 | 1 | 06/06/2024 00:23 | WG2297407 |
| Chromium | 192 | | 0.147 | 1.11 | 1 | 06/06/2024 00:23 | WG2297407 |
| Cobalt | 12.0 | | 0.0897 | 1.11 | 1 | 06/06/2024 00:23 | WG2297407 |
| Copper | 46.7 | | 0.442 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| Lead | 30.8 | | 0.230 | 0.553 | 1 | 06/06/2024 00:23 | WG2297407 |
| Molybdenum | 2.18 | | 0.120 | 0.553 | 1 | 06/06/2024 00:23 | WG2297407 |
| Nickel | 64.1 | | 0.146 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| Selenium | U | | 0.845 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| Silver | U | | 0.140 | 1.11 | 1 | 06/06/2024 00:23 | WG2297407 |
| Thallium | U | | 2.18 | 11.1 | 5 | 06/06/2024 18:24 | WG2297407 |
| Vanadium | 126 | | 0.559 | 2.21 | 1 | 06/06/2024 00:23 | WG2297407 |
| Zinc | 60.8 | | 0.920 | 5.53 | 1 | 06/06/2024 00:23 | WG2297407 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.59 | B J T8 | 1.01 | 3.04 | 25 | 06/16/2024 14:20 | WG2306105 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *115* | | | *77.0-120* | | *06/16/2024 14:20* | WG2306105 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0444 | 0.0608 | 1 | 06/04/2024 22:30 | WG2298438 |
| Acrylonitrile | U | | 0.00439 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| Benzene | 0.000809 | J | 0.000568 | 0.00122 | 1 | 06/04/2024 22:30 | WG2298438 |
| Bromobenzene | U | | 0.00110 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| Bromodichloromethane | U | | 0.000882 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Bromoform | U | | 0.00142 | 0.0304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Bromomethane | U | | 0.00240 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| n-Butylbenzene | U | | 0.00639 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| sec-Butylbenzene | U | | 0.00350 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| tert-Butylbenzene | U | | 0.00237 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| Carbon tetrachloride | U | | 0.00109 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| Chlorobenzene | U | | 0.000256 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Chlorodibromomethane | U | | 0.000745 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Chloroethane | U | | 0.00207 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| Chloroform | U | | 0.00125 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Chloromethane | U | | 0.00529 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00105 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000548 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00475 | 0.0304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.000788 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Dibromomethane | U | | 0.000913 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2-Dichlorobenzene | U | | 0.000517 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,3-Dichlorobenzene | U | | 0.000730 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,4-Dichlorobenzene | U | | 0.000852 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00196 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000597 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.000790 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.000737 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.000893 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00127 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00173 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.000984 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000610 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.000921 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00139 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00168 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Di-isopropyl ether | U | | 0.000499 | 0.00122 | 1 | 06/04/2024 22:30 | WG2298438 |
| Ethylbenzene | 0.00119 | J | 0.000897 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.00730 | 0.0304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Isopropylbenzene | U | | 0.000517 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| p-Isopropyltoluene | U | | 0.00310 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.0773 | 0.122 | 1 | 06/04/2024 22:30 | WG2298438 |
| Methylene Chloride | U | | 0.00808 | 0.0304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00277 | 0.0304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Methyl tert-butyl ether | U | | 0.000426 | 0.00122 | 1 | 06/04/2024 22:30 | WG2298438 |
| Naphthalene | 0.0173 | | 0.00594 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| n-Propylbenzene | U | | 0.00116 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| Styrene | U | | 0.000279 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00115 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000846 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000917 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Tetrachloroethene | 0.00937 | | 0.00109 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Toluene | 0.00242 | J | 0.00158 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.00892 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00535 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00112 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.000726 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Trichloroethene | U | | 0.000711 | 0.00122 | 1 | 06/04/2024 22:30 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00101 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00197 | 0.0152 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2,4-Trimethylbenzene | U | | 0.00192 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,2,3-Trimethylbenzene | U | | 0.00192 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00243 | 0.00608 | 1 | 06/04/2024 22:30 | WG2298438 |
| Vinyl chloride | U | | 0.00141 | 0.00304 | 1 | 06/04/2024 22:30 | WG2298438 |
| Xylenes, Total | 0.00462 | J | 0.00107 | 0.00791 | 1 | 06/04/2024 22:30 | WG2298438 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/04/2024 22:30* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/04/2024 22:30* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *90.8* | | | *70.0-130* | | *06/04/2024 22:30* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 9.13 | | 0.810 | 4.42 | 1 | 06/12/2024 19:55 | WG2303717 |
| C22-C32 Hydrocarbons | 30.2 | | 1.47 | 4.42 | 1 | 06/12/2024 19:55 | WG2303717 |
| C32-C40 Hydrocarbons | 15.3 | | 1.47 | 4.42 | 1 | 06/12/2024 19:55 | WG2303717 |
| *(S) o-Terphenyl* | *62.0* | | | *18.0-148* | | *06/12/2024 19:55* | WG2303717 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0130 | 0.0376 | 1 | 06/05/2024 23:37 | WG2298713 |
| PCB 1221 | U | | 0.0130 | 0.0376 | 1 | 06/05/2024 23:37 | WG2298713 |
| PCB 1232 | U | | 0.0130 | 0.0376 | 1 | 06/05/2024 23:37 | WG2298713 |
| PCB 1242 | U | | 0.0130 | 0.0376 | 1 | 06/05/2024 23:37 | WG2298713 |
| PCB 1248 | U | | 0.00816 | 0.0188 | 1 | 06/05/2024 23:37 | WG2298713 |
| PCB 1254 | U | | 0.00816 | 0.0188 | 1 | 06/05/2024 23:37 | WG2298713 |
| PCB 1260 | U | | 0.00816 | 0.0188 | 1 | 06/05/2024 23:37 | WG2298713 |
| *(S) Decachlorobiphenyl* | *81.3* | | | *10.0-135* | | *06/05/2024 23:37* | WG2298713 |
| *(S) Tetrachloro-m-xylene* | *77.7* | | | *10.0-139* | | *06/05/2024 23:37* | WG2298713 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0933 | | 0.00596 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Acenaphthylene | 0.0523 | | 0.00518 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Anthracene | 0.395 | | 0.00656 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Benzidine | U | | 0.0692 | 1.85 | 1 | 06/11/2024 21:34 | WG2301376 |
| Benzo(a)anthracene | 1.17 | | 0.00649 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Benzo(b)fluoranthene | 1.30 | | 0.00687 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Benzo(k)fluoranthene | 0.494 | | 0.00654 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Benzo(g,h,i)perylene | 0.555 | | 0.00673 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Benzo(a)pyrene | 1.15 | | 0.00684 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Bis(2-chlorethoxy)methane | U | | 0.0111 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Bis(2-chloroethyl)ether | U | | 0.0122 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0159 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 4-Bromophenyl-phenylether | U | | 0.0129 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2-Chloronaphthalene | U | | 0.00647 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 4-Chlorophenyl-phenylether | U | | 0.0128 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Chrysene | 1.37 | | 0.00732 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Dibenz(a,h)anthracene | 0.155 | | 0.0102 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 1,2-Dichlorobenzene | U | | 0.0109 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 1,3-Dichlorobenzene | U | | 0.0112 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 1,4-Dichlorobenzene | U | | 0.0110 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 3,3-Dichlorobenzidine | U | | 0.0136 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2,4-Dinitrotoluene | U | | 0.0106 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2,6-Dinitrotoluene | U | | 0.0120 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Fluoranthene | 2.56 | | 0.0333 | 0.185 | 5 | 06/12/2024 13:36 | WG2301376 |
| Fluorene | 0.311 | | 0.00599 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Hexachlorobenzene | U | | 0.0130 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Hexachloro-1,3-butadiene | U | | 0.0124 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Hexachlorocyclopentadiene | U | | 0.0193 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Hexachloroethane | U | | 0.0145 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Indeno(1,2,3-cd)pyrene | 0.615 | | 0.0104 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Isophorone | U | | 0.0113 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Naphthalene | 0.216 | | 0.00924 | 0.0368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Nitrobenzene | U | | 0.0128 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| n-Nitrosodimethylamine | U | | 0.0546 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | U | | 0.0279 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| n-Nitrosodi-n-propylamine | U | | 0.0123 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Phenanthrene | 2.55 | | 0.0366 | 0.185 | 5 | 06/12/2024 13:36 | WG2301376 |
| Benzylbutyl phthalate | U | | 0.0115 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0467 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Di-n-butyl phthalate | U | | 0.0126 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Diethyl phthalate | U | | 0.0122 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Dimethyl phthalate | U | | 0.0780 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Di-n-octyl phthalate | U | | 0.0249 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Pyrene | 2.29 | | 0.0358 | 0.185 | 5 | 06/12/2024 13:36 | WG2301376 |
| 1,2,4-Trichlorobenzene | U | | 0.0115 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 4-Chloro-3-methylphenol | U | | 0.0119 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2-Chlorophenol | U | | 0.0122 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2,4-Dichlorophenol | U | | 0.0107 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2,4-Dimethylphenol | U | | 0.00962 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0835 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2,4-Dinitrophenol | U | | 0.0861 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2-Nitrophenol | U | | 0.0132 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 4-Nitrophenol | U | | 0.0115 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Pentachlorophenol | U | | 0.00991 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| Phenol | U | | 0.0148 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| 2,4,6-Trichlorophenol | U | | 0.0118 | 0.368 | 1 | 06/11/2024 21:34 | WG2301376 |
| *(S) 2-Fluorophenol* | *56.1* | | | *12.0-120* | | *06/12/2024 13:36* | WG2301376 |
| *(S) 2-Fluorophenol* | *58.9* | | | *12.0-120* | | *06/11/2024 21:34* | WG2301376 |
| *(S) Phenol-d5* | *49.8* | | | *10.0-120* | | *06/12/2024 13:36* | WG2301376 |
| *(S) Phenol-d5* | *53.3* | | | *10.0-120* | | *06/11/2024 21:34* | WG2301376 |
| *(S) Nitrobenzene-d5* | *46.3* | | | *10.0-122* | | *06/12/2024 13:36* | WG2301376 |
| *(S) Nitrobenzene-d5* | *50.9* | | | *10.0-122* | | *06/11/2024 21:34* | WG2301376 |
| *(S) 2-Fluorobiphenyl* | *58.4* | | | *15.0-120* | | *06/11/2024 21:34* | WG2301376 |
| *(S) 2-Fluorobiphenyl* | *52.5* | | | *15.0-120* | | *06/12/2024 13:36* | WG2301376 |
| *(S) 2,4,6-Tribromophenol* | *55.3* | | | *10.0-127* | | *06/12/2024 13:36* | WG2301376 |
| *(S) 2,4,6-Tribromophenol* | *66.1* | | | *10.0-127* | | *06/11/2024 21:34* | WG2301376 |
| *(S) p-Terphenyl-d14* | *56.5* | | | *10.0-120* | | *06/12/2024 13:36* | WG2301376 |
| *(S) p-Terphenyl-d14* | *64.9* | | | *10.0-120* | | *06/11/2024 21:34* | WG2301376 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 67.4 | | 1 | 06/01/2024 11:02 | WG2296616 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0780 | | 0.0267 | 0.0594 | 1 | 06/01/2024 15:00 | WG2296379 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 5.12 | | 0.807 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| Arsenic | 7.07 | | 0.769 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| Barium | 258 | | 0.126 | 0.742 | 1 | 06/06/2024 00:25 | WG2297407 |
| Beryllium | 0.825 | | 0.0468 | 0.297 | 1 | 06/06/2024 00:25 | WG2297407 |
| Cadmium | 26.4 | | 0.0699 | 0.742 | 1 | 06/06/2024 00:25 | WG2297407 |
| Chromium | 82.0 | | 0.197 | 1.48 | 1 | 06/06/2024 00:25 | WG2297407 |
| Cobalt | 16.0 | | 0.120 | 1.48 | 1 | 06/06/2024 00:25 | WG2297407 |
| Copper | 60.2 | | 0.594 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| Lead | 407 | | 0.309 | 0.742 | 1 | 06/06/2024 00:25 | WG2297407 |
| Molybdenum | 1.01 | | 0.162 | 0.742 | 1 | 06/06/2024 00:25 | WG2297407 |
| Nickel | 85.4 | | 0.196 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| Selenium | U | | 1.13 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| Silver | U | | 0.188 | 1.48 | 1 | 06/06/2024 00:25 | WG2297407 |
| Thallium | 1.38 | J | 0.585 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| Vanadium | 73.8 | | 0.751 | 2.97 | 1 | 06/06/2024 00:25 | WG2297407 |
| Zinc | 178 | | 1.23 | 7.42 | 1 | 06/06/2024 00:25 | WG2297407 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 80.1 | | 1.83 | 5.52 | 29 | 06/04/2024 02:00 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.9* | | | *77.0-120* | | *06/04/2024 02:00* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0805 | 0.110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Acrylonitrile | U | | 0.00797 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Benzene | 0.00232 | | 0.00103 | 0.00221 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Bromobenzene | U | | 0.00198 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Bromodichloromethane | U | | 0.00160 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Bromoform | U | | 0.00259 | 0.0552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Bromomethane | U | | 0.00436 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| n-Butylbenzene | 0.0755 | | 0.0116 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| sec-Butylbenzene | 0.0204 | J | 0.00635 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| tert-Butylbenzene | U | | 0.00430 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Carbon tetrachloride | U | | 0.00198 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Chlorobenzene | U | | 0.000464 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Chlorodibromomethane | U | | 0.00135 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Chloroethane | U | | 0.00375 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Chloroform | U | | 0.00226 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Chloromethane | U | | 0.00961 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00190 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000993 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00860 | 0.0552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00143 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Dibromomethane | U | | 0.00166 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2-Dichlorobenzene | 0.00575 | J | 0.000938 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,3-Dichlorobenzene | U | | 0.00132 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,4-Dichlorobenzene | U | | 0.00154 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00356 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.00108 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00143 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.00134 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.00162 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00230 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00314 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00178 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.00111 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00167 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00251 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00304 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Di-isopropyl ether | U | | 0.000906 | 0.00221 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Ethylbenzene | 0.00459 | J | 0.00163 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.0132 | 0.0552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Isopropylbenzene | 0.0128 | | 0.000938 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| p-Isopropyltoluene | 0.0182 | | 0.00563 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.140 | 0.221 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Methylene Chloride | U | | 0.0146 | 0.0552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00502 | 0.0552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Methyl tert-butyl ether | 0.00441 | | 0.000772 | 0.00221 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Naphthalene | 0.0293 | | 0.0108 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| n-Propylbenzene | 0.0109 | J | 0.00209 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Styrene | U | | 0.000506 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00209 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00153 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00166 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Tetrachloroethene | 0.0628 | | 0.00198 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Toluene | 0.00491 | J | 0.00287 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0162 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00970 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00204 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.00132 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Trichloroethene | 0.00656 | | 0.00129 | 0.00221 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00182 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00358 | 0.0276 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2,4-Trimethylbenzene | 0.0272 | | 0.00348 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,2,3-Trimethylbenzene | 0.0445 | | 0.00348 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| 1,3,5-Trimethylbenzene | 0.0142 | | 0.00441 | 0.0110 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Vinyl chloride | U | | 0.00257 | 0.00552 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| Xylenes, Total | 0.0194 | | 0.00194 | 0.0143 | 1.16 | 06/04/2024 22:49 | WG2298438 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* | | *06/04/2024 22:49* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *67.0-138* | | *06/04/2024 22:49* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *93.9* | | | *70.0-130* | | *06/04/2024 22:49* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1430 | | 54.5 | 297 | 50 | 06/06/2024 23:18 | WG2299541 |
| C22-C32 Hydrocarbons | 6350 | | 98.7 | 297 | 50 | 06/06/2024 23:18 | WG2299541 |
| C32-C40 Hydrocarbons | 2430 | | 98.7 | 297 | 50 | 06/06/2024 23:18 | WG2299541 |
| *(S) o-Terphenyl* | *155* | J7 | | *18.0-148* | | *06/06/2024 23:18* | WG2299541 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0800 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Acenaphthylene | U | | 0.0696 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Anthracene | U | | 0.0880 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Benzidine | U | | 0.929 | 24.8 | 10 | 06/11/2024 05:22 | WG2301591 |
| Benzo(a)anthracene | U | | 0.0871 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Benzo(b)fluoranthene | U | | 0.0922 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Benzo(k)fluoranthene | U | | 0.0879 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Benzo(g,h,i)perylene | U | | 0.0904 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Benzo(a)pyrene | U | | 0.0919 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.148 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.163 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.214 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.174 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0868 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.172 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Chrysene | U | | 0.0983 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.137 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.146 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.150 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.147 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.183 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.142 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.162 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Fluoranthene | 0.101 | J | 0.0892 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Fluorene | 0.0870 | J | 0.0804 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Hexachlorobenzene | U | | 0.175 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.166 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.260 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Hexachloroethane | U | | 0.194 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.140 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Isophorone | U | | 0.151 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Naphthalene | U | | 0.124 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Nitrobenzene | U | | 0.172 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.733 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.374 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.165 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Phenanthrene | 0.130 | J | 0.0981 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.154 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.626 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.169 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Diethyl phthalate | U | | 0.163 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Dimethyl phthalate | U | | 1.05 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.334 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Pyrene | 0.211 | J | 0.0962 | 0.494 | 10 | 06/11/2024 05:22 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.154 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.160 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2-Chlorophenol | U | | 0.163 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.144 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.129 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 1.12 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2,4-Dinitrophenol | U | | 1.16 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2-Nitrophenol | U | | 0.177 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 4-Nitrophenol | U | | 0.154 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Pentachlorophenol | U | | 0.133 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| Phenol | U | | 0.199 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.159 | 4.94 | 10 | 06/11/2024 05:22 | WG2301591 |
| *(S) 2-Fluorophenol* | *55.4* | | | *12.0-120* | | *06/11/2024 05:22* | WG2301591 |
| *(S) Phenol-d5* | *50.5* | | | *10.0-120* | | *06/11/2024 05:22* | WG2301591 |
| *(S) Nitrobenzene-d5* | *42.0* | | | *10.0-122* | | *06/11/2024 05:22* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *58.3* | | | *15.0-120* | | *06/11/2024 05:22* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *38.0* | | | *10.0-127* | | *06/11/2024 05:22* | WG2301591 |
| *(S) p-Terphenyl-d14* | *51.4* | | | *10.0-120* | | *06/11/2024 05:22* | WG2301591 |

**Sample Narrative:**

L1741416-14 WG2301591: Dilution due to matrix.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 72.4 | | 1 | 06/13/2024 07:19 | WG2303727 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Lead | 114 | | 0.287 | 0.691 | 1 | 07/01/2024 20:13 | WG2315127 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 45.6 | T8 | 1.48 | 4.45 | 25 | 06/16/2024 14:41 | WG2306105 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *112* | | | *77.0-120* | | *06/16/2024 14:41* | WG2306105 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 341 | V | 20.3 | 110 | 20 | 06/12/2024 22:33 | WG2303717 |
| C22-C32 Hydrocarbons | 1570 | V | 36.7 | 110 | 20 | 06/12/2024 22:33 | WG2303717 |
| C32-C40 Hydrocarbons | 623 | | 36.7 | 110 | 20 | 06/12/2024 22:33 | WG2303717 |
| *(S) o-Terphenyl* | *93.1* | J7 | | *18.0-148* | | *06/12/2024 22:33* | WG2303717 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.6 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 62.2 | | 1.37 | 4.14 | 25 | 06/04/2024 02:20 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *06/04/2024 02:20* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0604 | 0.0828 | 1 | 06/04/2024 23:12 | WG2298438 |
| Acrylonitrile | U | | 0.00598 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| Benzene | U | | 0.000773 | 0.00166 | 1 | 06/04/2024 23:12 | WG2298438 |
| Bromobenzene | U | | 0.00149 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| Bromodichloromethane | U | | 0.00120 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Bromoform | U | | 0.00194 | 0.0414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Bromomethane | U | | 0.00326 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| n-Butylbenzene | 0.230 | | 0.00869 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| sec-Butylbenzene | 0.127 | | 0.00477 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| tert-Butylbenzene | 0.00732 | J | 0.00323 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| Carbon tetrachloride | U | | 0.00149 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| Chlorobenzene | U | | 0.000348 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Chlorodibromomethane | U | | 0.00101 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Chloroethane | U | | 0.00281 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| Chloroform | U | | 0.00171 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Chloromethane | U | | 0.00720 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| 2-Chlorotoluene | 0.0416 | | 0.00143 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000745 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00646 | 0.0414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00107 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Dibromomethane | U | | 0.00124 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2-Dichlorobenzene | 0.0771 | | 0.000704 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,3-Dichlorobenzene | 0.00702 | J | 0.000993 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,4-Dichlorobenzene | 0.0202 | | 0.00116 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00267 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000813 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00107 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.00100 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| cis-1,2-Dichloroethene | U | | 0.00122 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00172 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00235 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00134 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000829 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00125 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00189 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00228 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Di-isopropyl ether | U | | 0.000679 | 0.00166 | 1 | 06/04/2024 23:12 | WG2298438 |
| Ethylbenzene | 0.00220 | J | 0.00122 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.00993 | 0.0414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Isopropylbenzene | 0.0566 | | 0.000704 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| p-Isopropyltoluene | 0.00609 | J | 0.00422 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.105 | 0.166 | 1 | 06/04/2024 23:12 | WG2298438 |
| Methylene Chloride | U | | 0.0110 | 0.0414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00377 | 0.0414 | 1 | 06/04/2024 23:12 | WG2298438 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000579 | 0.00166 | 1 | 06/04/2024 23:12 | WG2298438 |
| Naphthalene | U | | 0.00808 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| n-Propylbenzene | 0.0444 | | 0.00157 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| Styrene | U | | 0.000379 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00157 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00115 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00125 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Tetrachloroethene | U | | 0.00148 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Toluene | U | | 0.00215 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0121 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00728 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00153 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.000988 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Trichloroethene | U | | 0.000967 | 0.00166 | 1 | 06/04/2024 23:12 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00137 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00268 | 0.0207 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2,4-Trimethylbenzene | 0.00533 | J | 0.00262 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,2,3-Trimethylbenzene | 0.00328 | J | 0.00262 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00331 | 0.00828 | 1 | 06/04/2024 23:12 | WG2298438 |
| Vinyl chloride | U | | 0.00192 | 0.00414 | 1 | 06/04/2024 23:12 | WG2298438 |
| Xylenes, Total | 0.0245 | | 0.00146 | 0.0108 | 1 | 06/04/2024 23:12 | WG2298438 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/04/2024 23:12* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *67.0-138* | | *06/04/2024 23:12* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *90.4* | | | *70.0-130* | | *06/04/2024 23:12* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 840 | | 19.2 | 104 | 20 | 06/06/2024 21:55 | WG2299541 |
| C22-C32 Hydrocarbons | 4040 | | 34.7 | 104 | 20 | 06/06/2024 21:55 | WG2299541 |
| C32-C40 Hydrocarbons | 1590 | | 34.7 | 104 | 20 | 06/06/2024 21:55 | WG2299541 |
| *(S) o-Terphenyl* | *125* | J7 | | *18.0-148* | | *06/06/2024 21:55* | WG2299541 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 80.0 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0589 | | 0.0225 | 0.0500 | 1 | 06/01/2024 15:02 | WG2296379 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.02 | J | 0.680 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| Arsenic | U | | 0.648 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| Barium | 179 | | 0.107 | 0.625 | 1 | 06/05/2024 00:06 | WG2297097 |
| Beryllium | 0.337 | B | 0.0394 | 0.250 | 1 | 06/05/2024 00:06 | WG2297097 |
| Cadmium | 0.0695 | J | 0.0589 | 0.625 | 1 | 06/05/2024 00:06 | WG2297097 |
| Chromium | 40.9 | | 0.166 | 1.25 | 1 | 06/05/2024 00:06 | WG2297097 |
| Cobalt | 13.2 | | 0.101 | 1.25 | 1 | 06/05/2024 00:06 | WG2297097 |
| Copper | 29.7 | | 0.500 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| Lead | 46.5 | | 0.260 | 0.625 | 1 | 06/05/2024 00:06 | WG2297097 |
| Molybdenum | 0.687 | | 0.136 | 0.625 | 1 | 06/05/2024 00:06 | WG2297097 |
| Nickel | 56.3 | | 0.165 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| Selenium | 2.35 | J | 0.955 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| Silver | 0.416 | J | 0.159 | 1.25 | 1 | 06/05/2024 00:06 | WG2297097 |
| Thallium | U | | 0.493 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| Vanadium | 45.8 | | 0.633 | 2.50 | 1 | 06/05/2024 00:06 | WG2297097 |
| Zinc | 82.3 | | 1.04 | 6.25 | 1 | 06/05/2024 00:06 | WG2297097 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 3.30 | B J T8 | 1.40 | 4.22 | 28.7 | 06/18/2024 18:51 | WG2307455 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *117* | | | *77.0-120* | | *06/18/2024 18:51* | WG2307455 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0148 | 0.0425 | 1 | 06/10/2024 12:20 | WG2300315 |
| PCB 1221 | U | | 0.0148 | 0.0425 | 1 | 06/10/2024 12:20 | WG2300315 |
| PCB 1232 | U | | 0.0148 | 0.0425 | 1 | 06/10/2024 12:20 | WG2300315 |
| PCB 1242 | U | | 0.0148 | 0.0425 | 1 | 06/10/2024 12:20 | WG2300315 |
| PCB 1248 | U | | 0.00923 | 0.0213 | 1 | 06/10/2024 12:20 | WG2300315 |
| PCB 1254 | U | | 0.00923 | 0.0213 | 1 | 06/10/2024 12:20 | WG2300315 |
| PCB 1260 | 0.143 | | 0.00923 | 0.0213 | 1 | 06/10/2024 12:20 | WG2300315 |
| *(S) Decachlorobiphenyl* | *34.3* | | | *10.0-135* | | *06/10/2024 12:20* | WG2300315 |
| *(S) Tetrachloro-m-xylene* | *28.8* | | | *10.0-139* | | *06/10/2024 12:20* | WG2300315 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | 0.0184 | J | 0.0135 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Acenaphthylene | U | | 0.0117 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Anthracene | 0.0180 | J | 0.0149 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Benzidine | U | | 0.156 | 4.18 | 2 | 06/06/2024 22:34 | WG2299140 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 0.333 | | 0.0146 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Benzo(b)fluoranthene | 0.631 | | 0.0155 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Benzo(k)fluoranthene | 0.208 | | 0.0148 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Benzo(g,h,i)perylene | 0.316 | | 0.0153 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Benzo(a)pyrene | 0.446 | | 0.0155 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0250 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0275 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0360 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0293 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.0146 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0290 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Chrysene | 0.573 | | 0.0165 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Dibenz(a,h)anthracene | 0.0978 | | 0.0231 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0246 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0253 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0248 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0308 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0239 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0273 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Fluoranthene | 0.391 | | 0.0150 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Fluorene | U | | 0.0135 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Hexachlorobenzene | U | | 0.0295 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0280 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Hexachlorocyclopentadiene | U | | 0.0438 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Hexachloroethane | U | | 0.0328 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 0.309 | | 0.0235 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Isophorone | U | | 0.0255 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Naphthalene | U | | 0.0209 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Nitrobenzene | U | | 0.0290 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.124 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| n-Nitrosodiphenylamine | U | | 0.0630 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0278 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Phenanthrene | 0.109 | | 0.0165 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0260 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.106 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Di-n-butyl phthalate | U | | 0.0285 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Diethyl phthalate | U | | 0.0275 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Dimethyl phthalate | U | | 0.176 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0563 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Pyrene | 0.440 | | 0.0163 | 0.0833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0260 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 4-Chloro-3-methylphenol | U | | 0.0270 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2-Chlorophenol | U | | 0.0275 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0243 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0218 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.189 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.195 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2-Nitrophenol | U | | 0.0298 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 4-Nitrophenol | U | | 0.0260 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Pentachlorophenol | U | | 0.0224 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| Phenol | U | | 0.0335 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0268 | 0.833 | 2 | 06/06/2024 22:34 | WG2299140 |
| *(S) 2-Fluorophenol* | *75.3* | | | *12.0-120* | | *06/06/2024 22:34* | WG2299140 |
| *(S) Phenol-d5* | *64.9* | | | *10.0-120* | | *06/06/2024 22:34* | WG2299140 |
| *(S) Nitrobenzene-d5* | *62.6* | | | *10.0-122* | | *06/06/2024 22:34* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *67.2* | | | *15.0-120* | | *06/06/2024 22:34* | WG2299140 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) 2,4,6-Tribromophenol* | *73.2* | | | *10.0-127* | | *06/06/2024 22:34* | WG2299140 |
| *(S) p-Terphenyl-d14* | *69.0* | | | *10.0-120* | | *06/06/2024 22:34* | WG2299140 |

**Sample Narrative:**

L1741416-17 WG2299140: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.5 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | U | | 0.0238 | 0.0530 | 1 | 06/01/2024 13:42 | WG2296379 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 4.49 | | 0.721 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| Arsenic | 4.57 | | 0.686 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| Barium | 291 | | 0.113 | 0.662 | 1 | 06/06/2024 00:27 | WG2297407 |
| Beryllium | 0.794 | | 0.0417 | 0.265 | 1 | 06/06/2024 00:27 | WG2297407 |
| Cadmium | 0.851 | | 0.0624 | 0.662 | 1 | 06/06/2024 00:27 | WG2297407 |
| Chromium | 83.8 | | 0.176 | 1.32 | 1 | 06/06/2024 00:27 | WG2297407 |
| Cobalt | 25.3 | | 0.107 | 1.32 | 1 | 06/06/2024 00:27 | WG2297407 |
| Copper | 40.3 | | 0.530 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| Lead | 30.7 | | 0.276 | 0.662 | 1 | 06/06/2024 00:27 | WG2297407 |
| Molybdenum | 0.524 | J | 0.144 | 0.662 | 1 | 06/06/2024 00:27 | WG2297407 |
| Nickel | 71.8 | | 0.175 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| Selenium | U | | 1.01 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| Silver | U | | 0.168 | 1.32 | 1 | 06/06/2024 00:27 | WG2297407 |
| Thallium | 2.01 | J | 0.522 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| Vanadium | 87.3 | | 0.670 | 2.65 | 1 | 06/06/2024 00:27 | WG2297407 |
| Zinc | 89.0 | | 1.10 | 6.62 | 1 | 06/06/2024 00:27 | WG2297407 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 4.58 | B T8 | 1.41 | 4.26 | 25 | 06/16/2024 15:02 | WG2306105 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *114* | | | *77.0-120* | | *06/16/2024 15:02* | WG2306105 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0622 | 0.0852 | 1 | 06/04/2024 23:32 | WG2298438 |
| Acrylonitrile | U | | 0.00615 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| Benzene | 0.0100 | | 0.000796 | 0.00170 | 1 | 06/04/2024 23:32 | WG2298438 |
| Bromobenzene | U | | 0.00153 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| Bromodichloromethane | U | | 0.00124 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Bromoform | U | | 0.00199 | 0.0426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Bromomethane | U | | 0.00336 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| n-Butylbenzene | 0.0141 | J | 0.00895 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| sec-Butylbenzene | U | | 0.00491 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| tert-Butylbenzene | U | | 0.00332 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| Carbon tetrachloride | U | | 0.00153 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| Chlorobenzene | U | | 0.000358 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Chlorodibromomethane | U | | 0.00104 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Chloroethane | U | | 0.00290 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| Chloroform | U | | 0.00176 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Chloromethane | U | | 0.00741 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00147 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000767 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00665 | 0.0426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00110 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Dibromomethane | U | | 0.00128 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2-Dichlorobenzene | U | | 0.000724 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,3-Dichlorobenzene | U | | 0.00102 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,4-Dichlorobenzene | U | | 0.00119 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00274 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000837 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00111 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.00103 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| cis-1,2-Dichloroethene | 0.00337 | J | 0.00125 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00177 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00242 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00138 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000854 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00129 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00194 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00235 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Di-isopropyl ether | U | | 0.000699 | 0.00170 | 1 | 06/04/2024 23:32 | WG2298438 |
| Ethylbenzene | 0.00201 | J | 0.00126 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.0102 | 0.0426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Isopropylbenzene | U | | 0.000724 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| p-Isopropyltoluene | U | | 0.00435 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.108 | 0.170 | 1 | 06/04/2024 23:32 | WG2298438 |
| Methylene Chloride | U | | 0.0113 | 0.0426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00389 | 0.0426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Methyl tert-butyl ether | U | | 0.000596 | 0.00170 | 1 | 06/04/2024 23:32 | WG2298438 |
| Naphthalene | 0.0139 | J | 0.00832 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| n-Propylbenzene | U | | 0.00162 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| Styrene | U | | 0.000390 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00162 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00118 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00128 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Tetrachloroethene | U | | 0.00153 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Toluene | 0.00535 | J | 0.00222 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0125 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00750 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00157 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.00102 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Trichloroethene | 0.0182 | | 0.000995 | 0.00170 | 1 | 06/04/2024 23:32 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00141 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00276 | 0.0213 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2,4-Trimethylbenzene | 0.00341 | J | 0.00269 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,2,3-Trimethylbenzene | U | | 0.00269 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| 1,3,5-Trimethylbenzene | U | | 0.00341 | 0.00852 | 1 | 06/04/2024 23:32 | WG2298438 |
| Vinyl chloride | U | | 0.00198 | 0.00426 | 1 | 06/04/2024 23:32 | WG2298438 |
| Xylenes, Total | 0.00593 | J | 0.00150 | 0.0111 | 1 | 06/04/2024 23:32 | WG2298438 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* | | *06/04/2024 23:32* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/04/2024 23:32* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *84.7* | | | *70.0-130* | | *06/04/2024 23:32* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 12.5 | | 0.971 | 5.30 | 1 | 06/12/2024 20:09 | WG2303717 |
| C22-C32 Hydrocarbons | 54.0 | | 1.76 | 5.30 | 1 | 06/12/2024 20:09 | WG2303717 |
| C32-C40 Hydrocarbons | 27.0 | | 1.76 | 5.30 | 1 | 06/12/2024 20:09 | WG2303717 |
| *(S) o-Terphenyl* | *39.6* | | | *18.0-148* | | *06/12/2024 20:09* | WG2303717 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0156 | 0.0450 | 1 | 06/05/2024 23:56 | WG2298713 |
| PCB 1221 | U | | 0.0156 | 0.0450 | 1 | 06/05/2024 23:56 | WG2298713 |
| PCB 1232 | U | | 0.0156 | 0.0450 | 1 | 06/05/2024 23:56 | WG2298713 |
| PCB 1242 | U | | 0.0156 | 0.0450 | 1 | 06/05/2024 23:56 | WG2298713 |
| PCB 1248 | U | | 0.00978 | 0.0225 | 1 | 06/05/2024 23:56 | WG2298713 |
| PCB 1254 | U | | 0.00978 | 0.0225 | 1 | 06/05/2024 23:56 | WG2298713 |
| PCB 1260 | U | | 0.00978 | 0.0225 | 1 | 06/05/2024 23:56 | WG2298713 |
| *(S) Decachlorobiphenyl* | *80.3* | | | *10.0-135* | | *06/05/2024 23:56* | WG2298713 |
| *(S) Tetrachloro-m-xylene* | *82.4* | | | *10.0-139* | | *06/05/2024 23:56* | WG2298713 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00714 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Acenaphthylene | U | | 0.00621 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Anthracene | U | | 0.00786 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Benzidine | U | | 0.0829 | 2.21 | 1 | 06/06/2024 19:31 | WG2299140 |
| Benzo(a)anthracene | 0.0264 | J | 0.00778 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Benzo(b)fluoranthene | 0.0435 | J | 0.00823 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Benzo(k)fluoranthene | 0.0160 | J | 0.00784 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Benzo(g,h,i)perylene | 0.0261 | J | 0.00807 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Benzo(a)pyrene | 0.0333 | J | 0.00820 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0132 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0146 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0191 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0155 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.00775 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0154 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Chrysene | 0.0391 | J | 0.00877 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Dibenz(a,h)anthracene | U | | 0.0122 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0131 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0134 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0131 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0163 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0127 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0144 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Fluoranthene | 0.0333 | J | 0.00796 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Fluorene | U | | 0.00718 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Hexachlorobenzene | U | | 0.0156 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0148 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Hexachlorocyclopentadiene | U | | 0.0232 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Hexachloroethane | U | | 0.0174 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 0.0225 | J | 0.0125 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Isophorone | U | | 0.0135 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Naphthalene | U | | 0.0111 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Nitrobenzene | U | | 0.0154 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.0654 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | U | | 0.0334 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0147 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Phenanthrene | 0.0171 | J | 0.00876 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0138 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0559 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Di-n-butyl phthalate | U | | 0.0151 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Diethyl phthalate | U | | 0.0146 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Dimethyl phthalate | U | | 0.0935 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0298 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Pyrene | 0.0397 | J | 0.00858 | 0.0441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0138 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 4-Chloro-3-methylphenol | U | | 0.0143 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2-Chlorophenol | U | | 0.0146 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0128 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0115 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.100 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.103 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2-Nitrophenol | U | | 0.0158 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 4-Nitrophenol | U | | 0.0138 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Pentachlorophenol | U | | 0.0119 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| Phenol | U | | 0.0178 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0142 | 0.441 | 1 | 06/06/2024 19:31 | WG2299140 |
| *(S) 2-Fluorophenol* | *69.1* | | | *12.0-120* | | *06/06/2024 19:31* | WG2299140 |
| *(S) Phenol-d5* | *60.4* | | | *10.0-120* | | *06/06/2024 19:31* | WG2299140 |
| *(S) Nitrobenzene-d5* | *59.6* | | | *10.0-122* | | *06/06/2024 19:31* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *59.6* | | | *15.0-120* | | *06/06/2024 19:31* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *70.0* | | | *10.0-127* | | *06/06/2024 19:31* | WG2299140 |
| *(S) p-Terphenyl-d14* | *63.7* | | | *10.0-120* | | *06/06/2024 19:31* | WG2299140 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 72.0 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0255 | J | 0.0250 | 0.0556 | 1 | 06/01/2024 13:44 | WG2296379 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 4.33 | | 0.756 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| Arsenic | 4.07 | | 0.720 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| Barium | 306 | | 0.118 | 0.695 | 1 | 06/06/2024 00:28 | WG2297407 |
| Beryllium | 0.411 | | 0.0438 | 0.278 | 1 | 06/06/2024 00:28 | WG2297407 |
| Cadmium | 3.24 | | 0.0654 | 0.695 | 1 | 06/06/2024 00:28 | WG2297407 |
| Chromium | 100 | | 0.185 | 1.39 | 1 | 06/06/2024 00:28 | WG2297407 |
| Cobalt | 2.79 | | 0.113 | 1.39 | 1 | 06/06/2024 00:28 | WG2297407 |
| Copper | 28.0 | | 0.556 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| Lead | 233 | | 0.289 | 0.695 | 1 | 06/06/2024 00:28 | WG2297407 |
| Molybdenum | 3.29 | | 0.151 | 0.695 | 1 | 06/06/2024 00:28 | WG2297407 |
| Nickel | 27.4 | | 0.183 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| Selenium | U | | 1.06 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| Silver | U | | 0.176 | 1.39 | 1 | 06/06/2024 00:28 | WG2297407 |
| Thallium | 1.67 | J | 0.547 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| Vanadium | 83.8 | | 0.703 | 2.78 | 1 | 06/06/2024 00:28 | WG2297407 |
| Zinc | 55.2 | | 1.16 | 6.95 | 1 | 06/06/2024 00:28 | WG2297407 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 117 | | 6.42 | 19.3 | 111 | 06/05/2024 07:24 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *06/05/2024 07:24* | WG2298546 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.563 | 0.772 | 8.88 | 06/07/2024 02:40 | WG2299808 |
| Acrylonitrile | U | | 0.0529 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| Benzene | 0.0699 | | 0.00684 | 0.0146 | 8 | 06/05/2024 01:25 | WG2298438 |
| Bromobenzene | U | | 0.0132 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| Bromodichloromethane | U | | 0.0106 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Bromoform | U | | 0.0171 | 0.366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Bromomethane | U | | 0.0289 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| n-Butylbenzene | 2.38 | | 0.0768 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| sec-Butylbenzene | 0.236 | | 0.0421 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| tert-Butylbenzene | U | | 0.0285 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| Carbon tetrachloride | U | | 0.0131 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| Chlorobenzene | U | | 0.00307 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Chlorodibromomethane | U | | 0.00896 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Chloroethane | U | | 0.0249 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| Chloroform | U | | 0.0151 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Chloromethane | U | | 0.0637 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| 2-Chlorotoluene | 0.514 | | 0.0127 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 4-Chlorotoluene | 0.503 | | 0.00658 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.0571 | 0.366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00947 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Dibromomethane | U | | 0.0110 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2-Dichlorobenzene | 0.0461 | J | 0.00622 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,3-Dichlorobenzene | U | | 0.00878 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,4-Dichlorobenzene | U | | 0.0102 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.0236 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.00719 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00949 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.00887 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| cis-1,2-Dichloroethene | 0.0704 | | 0.0107 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.0152 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.0209 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.0118 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.00733 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.0111 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.0167 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.0201 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Di-isopropyl ether | U | | 0.00600 | 0.0146 | 8 | 06/05/2024 01:25 | WG2298438 |
| Ethylbenzene | 0.346 | | 0.0108 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.0878 | 0.366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Isopropylbenzene | 0.305 | | 0.00622 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| p-Isopropyltoluene | 0.633 | | 0.0373 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.929 | 1.46 | 8 | 06/05/2024 01:25 | WG2298438 |
| Methylene Chloride | U | | 0.103 | 0.386 | 8.88 | 06/07/2024 02:40 | WG2299808 |
| 4-Methyl-2-pentanone (MIBK) | 0.578 | | 0.0333 | 0.366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Methyl tert-butyl ether | U | | 0.00512 | 0.0146 | 8 | 06/05/2024 01:25 | WG2298438 |
| Naphthalene | 7.02 | | 0.0713 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| n-Propylbenzene | 0.307 | | 0.0139 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| Styrene | U | | 0.00335 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0139 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0102 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0110 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Tetrachloroethene | 0.115 | | 0.0131 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Toluene | 0.534 | | 0.0190 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.107 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2,4-Trichlorobenzene | 0.102 | J | 0.0644 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.0135 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.00874 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Trichloroethene | 1.75 | | 0.00854 | 0.0146 | 8 | 06/05/2024 01:25 | WG2298438 |
| Trichlorofluoromethane | U | | 0.0121 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.0238 | 0.183 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2,4-Trimethylbenzene | 3.16 | | 0.0230 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,2,3-Trimethylbenzene | 2.05 | | 0.0230 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| 1,3,5-Trimethylbenzene | 1.39 | | 0.0293 | 0.0732 | 8 | 06/05/2024 01:25 | WG2298438 |
| Vinyl chloride | U | | 0.0170 | 0.0366 | 8 | 06/05/2024 01:25 | WG2298438 |
| Xylenes, Total | 2.12 | | 0.0129 | 0.0951 | 8 | 06/05/2024 01:25 | WG2298438 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* | | *06/05/2024 01:25* | WG2298438 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/07/2024 02:40* | WG2299808 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *67.0-138* | | *06/05/2024 01:25* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/07/2024 02:40* | WG2299808 |
| *(S) 1,2-Dichloroethane-d4* | *99.4* | | | *70.0-130* | | *06/05/2024 01:25* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/07/2024 02:40* | WG2299808 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 3920 | | 510 | 2780 | 500 | 06/06/2024 23:04 | WG2299541 |
| C22-C32 Hydrocarbons | 20000 | | 924 | 2780 | 500 | 06/06/2024 23:04 | WG2299541 |
| C32-C40 Hydrocarbons | 9140 | | 924 | 2780 | 500 | 06/06/2024 23:04 | WG2299541 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *06/06/2024 23:04* | WG2299541 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0749 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Acenaphthylene | U | | 0.0651 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Anthracene | U | | 0.0824 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Benzidine | U | | 0.870 | 23.2 | 10 | 06/11/2024 06:08 | WG2301591 |
| Benzo(a)anthracene | U | | 0.0815 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Benzo(b)fluoranthene | 0.0895 | J | 0.0863 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Benzo(k)fluoranthene | U | | 0.0822 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Benzo(g,h,i)perylene | U | | 0.0846 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Benzo(a)pyrene | U | | 0.0860 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.139 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.153 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.200 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.163 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0813 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.161 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Chrysene | 0.118 | J | 0.0920 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.128 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.137 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.140 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.138 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.171 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.133 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.151 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Fluoranthene | 0.122 | J | 0.0835 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Fluorene | U | | 0.0753 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Hexachlorobenzene | U | | 0.164 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.156 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.243 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Hexachloroethane | U | | 0.182 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.131 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Isophorone | U | | 0.142 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Naphthalene | 0.388 | J | 0.116 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Nitrobenzene | U | | 0.161 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.686 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.350 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.154 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Phenanthrene | 0.303 | J | 0.0918 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.144 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.586 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.158 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Diethyl phthalate | U | | 0.153 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Dimethyl phthalate | U | | 0.981 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.313 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Pyrene | U | | 0.0900 | 0.463 | 10 | 06/11/2024 06:08 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.144 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.150 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2-Chlorophenol | U | | 0.153 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.135 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.121 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 1.05 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2,4-Dinitrophenol | U | | 1.08 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2-Nitrophenol | U | | 0.165 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 4-Nitrophenol | U | | 0.144 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Pentachlorophenol | U | | 0.124 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| Phenol | U | | 0.186 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.149 | 4.63 | 10 | 06/11/2024 06:08 | WG2301591 |
| *(S) 2-Fluorophenol* | *62.0* | | | *12.0-120* | | *06/11/2024 06:08* | WG2301591 |
| *(S) Phenol-d5* | *56.7* | | | *10.0-120* | | *06/11/2024 06:08* | WG2301591 |
| *(S) Nitrobenzene-d5* | *52.6* | | | *10.0-122* | | *06/11/2024 06:08* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *66.1* | | | *15.0-120* | | *06/11/2024 06:08* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *47.2* | | | *10.0-127* | | *06/11/2024 06:08* | WG2301591 |
| *(S) p-Terphenyl-d14* | *59.2* | | | *10.0-120* | | *06/11/2024 06:08* | WG2301591 |

**Sample Narrative:**

L1741416-19 WG2301591: Dilution due to matrix.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.7 | | 1 | 06/08/2024 11:13 | WG2301199 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0600 | | 0.0238 | 0.0528 | 1 | 06/14/2024 09:48 | WG2304258 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 7.07 | J6 | 0.718 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| Arsenic | 4.22 | | 0.684 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| Barium | 339 | | 0.113 | 0.660 | 1 | 06/19/2024 09:46 | WG2305335 |
| Beryllium | 1.08 | | 0.0416 | 0.264 | 1 | 06/19/2024 09:46 | WG2305335 |
| Cadmium | 0.378 | B J | 0.0622 | 0.660 | 1 | 06/19/2024 09:46 | WG2305335 |
| Chromium | 87.5 | | 0.176 | 1.32 | 1 | 06/19/2024 09:46 | WG2305335 |
| Cobalt | 9.85 | O1 | 0.107 | 1.32 | 1 | 06/19/2024 09:46 | WG2305335 |
| Copper | 41.4 | | 0.528 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| Lead | 63.9 | J3 J5 | 0.275 | 0.660 | 1 | 06/19/2024 09:46 | WG2305335 |
| Molybdenum | U | | 0.144 | 0.660 | 1 | 06/19/2024 09:46 | WG2305335 |
| Nickel | 57.2 | | 0.174 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| Selenium | U | | 1.01 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| Silver | U | | 0.168 | 1.32 | 1 | 06/19/2024 09:46 | WG2305335 |
| Thallium | U | | 0.520 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| Vanadium | 87.5 | | 0.668 | 2.64 | 1 | 06/19/2024 09:46 | WG2305335 |
| Zinc | 75.9 | | 1.10 | 6.60 | 1 | 06/19/2024 09:46 | WG2305335 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 17.0 | B T8 | 1.40 | 4.22 | 25 | 06/17/2024 11:02 | WG2306312 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.0* | | | *77.0-120* | | *06/17/2024 11:02* | WG2306312 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.123 | 0.169 | 2 | 06/12/2024 23:48 | WG2303955 |
| Acrylonitrile | U | | 0.0122 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| Benzene | 0.00560 | | 0.00158 | 0.00338 | 2 | 06/12/2024 23:48 | WG2303955 |
| Bromobenzene | U | | 0.00304 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| Bromodichloromethane | U | | 0.00245 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Bromoform | U | | 0.00396 | 0.0846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Bromomethane | U | | 0.00666 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| n-Butylbenzene | 0.0380 | J | 0.0178 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| sec-Butylbenzene | 0.0289 | J | 0.00974 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| tert-Butylbenzene | U | | 0.00660 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| Carbon tetrachloride | U | | 0.00304 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| Chlorobenzene | U | | 0.000710 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Chlorodibromomethane | U | | 0.00206 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Chloroethane | U | | 0.00575 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| Chloroform | U | | 0.00348 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Chloromethane | U | | 0.0147 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| 2-Chlorotoluene | 0.0555 | | 0.00293 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 4-Chlorotoluene | U | | 0.00152 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.0132 | 0.0846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2-Dibromoethane | U | | 0.00220 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Dibromomethane | U | | 0.00254 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2-Dichlorobenzene | 0.00419 | J | 0.00144 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,3-Dichlorobenzene | U | | 0.00203 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,4-Dichlorobenzene | U | | 0.00237 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| Dichlorodifluoromethane | U | | 0.00545 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,1-Dichloroethane | U | | 0.00166 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2-Dichloroethane | U | | 0.00220 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,1-Dichloroethene | U | | 0.00205 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| cis-1,2-Dichloroethene | 0.0164 | | 0.00249 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| trans-1,2-Dichloroethene | U | | 0.00352 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2-Dichloropropane | U | | 0.00480 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,1-Dichloropropene | U | | 0.00274 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,3-Dichloropropane | U | | 0.00169 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| cis-1,3-Dichloropropene | U | | 0.00255 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| trans-1,3-Dichloropropene | U | | 0.00386 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 2,2-Dichloropropane | U | | 0.00467 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Di-isopropyl ether | U | | 0.00139 | 0.00338 | 2 | 06/12/2024 23:48 | WG2303955 |
| Ethylbenzene | 0.0218 | | 0.00249 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Hexachloro-1,3-butadiene | U | | 0.0203 | 0.0846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Isopropylbenzene | 0.0238 | | 0.00144 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| p-Isopropyltoluene | 0.0802 | | 0.00862 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 2-Butanone (MEK) | U | | 0.215 | 0.338 | 2 | 06/12/2024 23:48 | WG2303955 |
| Methylene Chloride | U | | 0.0225 | 0.0846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00771 | 0.0846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Methyl tert-butyl ether | U | | 0.00118 | 0.00338 | 2 | 06/12/2024 23:48 | WG2303955 |
| Naphthalene | 0.775 | | 0.0165 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| n-Propylbenzene | 0.0303 | | 0.00321 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| Styrene | U | | 0.000775 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00321 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00235 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00255 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Tetrachloroethene | 0.00911 | | 0.00303 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Toluene | 0.0352 | | 0.00440 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2,3-Trichlorobenzene | U | | 0.0249 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2,4-Trichlorobenzene | U | | 0.0149 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,1,1-Trichloroethane | U | | 0.00313 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,1,2-Trichloroethane | U | | 0.00201 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Trichloroethene | 0.112 | | 0.00198 | 0.00338 | 2 | 06/12/2024 23:48 | WG2303955 |
| Trichlorofluoromethane | U | | 0.00279 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2,3-Trichloropropane | U | | 0.00548 | 0.0423 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2,4-Trimethylbenzene | 0.333 | | 0.00534 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,2,3-Trimethylbenzene | 0.235 | | 0.00534 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| 1,3,5-Trimethylbenzene | 0.176 | | 0.00676 | 0.0169 | 2 | 06/12/2024 23:48 | WG2303955 |
| Vinyl chloride | U | | 0.00392 | 0.00846 | 2 | 06/12/2024 23:48 | WG2303955 |
| Xylenes, Total | 0.163 | | 0.00298 | 0.0220 | 2 | 06/12/2024 23:48 | WG2303955 |
| *(S) Toluene-d8* | *113* | | | *75.0-131* | | *06/12/2024 23:48* | WG2303955 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/12/2024 23:48* | WG2303955 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *06/12/2024 23:48* | WG2303955 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 503 | | 48.5 | 264 | 50 | 06/12/2024 21:35 | WG2303717 |
| C22-C32 Hydrocarbons | 2580 | | 87.8 | 264 | 50 | 06/12/2024 21:35 | WG2303717 |
| C32-C40 Hydrocarbons | 1230 | | 87.8 | 264 | 50 | 06/12/2024 21:35 | WG2303717 |
| *(S) o-Terphenyl* | *85.5* | J7 | | *18.0-148* | | *06/12/2024 21:35* | WG2303717 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.4 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 12.7 | B | 1.36 | 4.09 | 25 | 06/04/2024 02:39 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.8* | | | *77.0-120* | | *06/04/2024 02:39* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0597 | 0.0817 | 1 | 06/04/2024 23:54 | WG2298438 |
| Acrylonitrile | U | | 0.00590 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| Benzene | 0.00454 | | 0.000763 | 0.00163 | 1 | 06/04/2024 23:54 | WG2298438 |
| Bromobenzene | U | | 0.00147 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| Bromodichloromethane | U | | 0.00118 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Bromoform | U | | 0.00191 | 0.0409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Bromomethane | U | | 0.00322 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| n-Butylbenzene | 0.275 | | 0.00858 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| sec-Butylbenzene | 0.0235 | | 0.00471 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| tert-Butylbenzene | U | | 0.00319 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| Carbon tetrachloride | U | | 0.00147 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| Chlorobenzene | U | | 0.000343 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Chlorodibromomethane | U | | 0.00100 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Chloroethane | U | | 0.00278 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| Chloroform | U | | 0.00168 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Chloromethane | U | | 0.00711 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| 2-Chlorotoluene | U | | 0.00141 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 4-Chlorotoluene | U | | 0.000735 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00637 | 0.0409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Dibromomethane | U | | 0.00123 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2-Dichlorobenzene | U | | 0.000695 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,3-Dichlorobenzene | U | | 0.000981 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,4-Dichlorobenzene | U | | 0.00114 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| Dichlorodifluoromethane | U | | 0.00263 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,1-Dichloroethane | U | | 0.000802 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2-Dichloroethane | U | | 0.00106 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,1-Dichloroethene | U | | 0.000990 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| cis-1,2-Dichloroethene | 0.0204 | | 0.00120 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| trans-1,2-Dichloroethene | U | | 0.00170 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2-Dichloropropane | U | | 0.00232 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,1-Dichloropropene | U | | 0.00132 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,3-Dichloropropane | U | | 0.000819 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| cis-1,3-Dichloropropene | U | | 0.00124 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| trans-1,3-Dichloropropene | U | | 0.00186 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 2,2-Dichloropropane | U | | 0.00226 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Di-isopropyl ether | U | | 0.000670 | 0.00163 | 1 | 06/04/2024 23:54 | WG2298438 |
| Ethylbenzene | 0.0199 | | 0.00120 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Hexachloro-1,3-butadiene | U | | 0.00981 | 0.0409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Isopropylbenzene | 0.0227 | | 0.000695 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| p-Isopropyltoluene | 0.0646 | | 0.00417 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 2-Butanone (MEK) | U | | 0.104 | 0.163 | 1 | 06/04/2024 23:54 | WG2298438 |
| Methylene Chloride | U | | 0.0109 | 0.0409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00373 | 0.0409 | 1 | 06/04/2024 23:54 | WG2298438 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000572 | 0.00163 | 1 | 06/04/2024 23:54 | WG2298438 |
| Naphthalene | 0.422 | | 0.00798 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| n-Propylbenzene | 0.0242 | | 0.00155 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| Styrene | U | | 0.000374 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00155 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00114 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00123 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Tetrachloroethene | 0.00994 | | 0.00146 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Toluene | 0.0240 | | 0.00212 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2,3-Trichlorobenzene | U | | 0.0120 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2,4-Trichlorobenzene | U | | 0.00719 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,1,1-Trichloroethane | U | | 0.00151 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,1,2-Trichloroethane | U | | 0.000976 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Trichloroethene | 0.0866 | | 0.000954 | 0.00163 | 1 | 06/04/2024 23:54 | WG2298438 |
| Trichlorofluoromethane | U | | 0.00135 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2,3-Trichloropropane | U | | 0.00265 | 0.0204 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2,4-Trimethylbenzene | 0.265 | | 0.00258 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,2,3-Trimethylbenzene | 0.185 | | 0.00258 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| 1,3,5-Trimethylbenzene | 0.126 | | 0.00327 | 0.00817 | 1 | 06/04/2024 23:54 | WG2298438 |
| Vinyl chloride | U | | 0.00190 | 0.00409 | 1 | 06/04/2024 23:54 | WG2298438 |
| Xylenes, Total | 0.137 | | 0.00144 | 0.0106 | 1 | 06/04/2024 23:54 | WG2298438 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/04/2024 23:54* | WG2298438 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *67.0-138* | | *06/04/2024 23:54* | WG2298438 |
| *(S) 1,2-Dichloroethane-d4* | *97.8* | | | *70.0-130* | | *06/04/2024 23:54* | WG2298438 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 181 | | 19.0 | 103 | 20 | 06/06/2024 22:09 | WG2299541 |
| C22-C32 Hydrocarbons | 900 | | 34.4 | 103 | 20 | 06/06/2024 22:09 | WG2299541 |
| C32-C40 Hydrocarbons | 428 | | 34.4 | 103 | 20 | 06/06/2024 22:09 | WG2299541 |
| *(S) o-Terphenyl* | *95.1* | J7 | | *18.0-148* | | *06/06/2024 22:09* | WG2299541 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 94.0 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.319 | | 0.0191 | 0.0425 | 1 | 06/02/2024 23:53 | WG2296693 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 3.85 | | 0.579 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| Arsenic | 23.2 | | 0.551 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| Barium | 176 | | 0.0906 | 0.532 | 1 | 06/07/2024 19:23 | WG2299109 |
| Beryllium | 0.0723 | J | 0.0335 | 0.213 | 1 | 06/07/2024 19:23 | WG2299109 |
| Cadmium | 0.773 | | 0.0501 | 0.532 | 1 | 06/07/2024 19:23 | WG2299109 |
| Chromium | 26.7 | | 0.141 | 1.06 | 1 | 06/07/2024 19:23 | WG2299109 |
| Cobalt | 8.67 | | 0.0862 | 1.06 | 1 | 06/07/2024 19:23 | WG2299109 |
| Copper | 43.2 | | 0.425 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| Lead | 140 | | 0.221 | 0.532 | 1 | 06/07/2024 19:23 | WG2299109 |
| Molybdenum | 2.92 | | 0.116 | 0.532 | 1 | 06/07/2024 19:23 | WG2299109 |
| Nickel | 20.0 | | 0.140 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| Selenium | U | | 0.813 | 2.13 | 1 | 06/07/2024 19:23 | WG2299109 |
| Silver | 0.255 | B J | 0.135 | 1.06 | 1 | 06/07/2024 19:23 | WG2299109 |
| Thallium | U | | 0.419 | 2.13 | 1 | 06/08/2024 18:03 | WG2299109 |
| Vanadium | 36.8 | | 0.538 | 2.13 | 1 | 06/08/2024 18:03 | WG2299109 |
| Zinc | 203 | | 0.885 | 5.32 | 1 | 06/07/2024 19:23 | WG2299109 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0251 | 0.0723 | 2 | 06/08/2024 00:42 | WG2300315 |
| PCB 1221 | U | | 0.0251 | 0.0723 | 2 | 06/08/2024 00:42 | WG2300315 |
| PCB 1232 | U | | 0.0251 | 0.0723 | 2 | 06/08/2024 00:42 | WG2300315 |
| PCB 1242 | U | | 0.0251 | 0.0723 | 2 | 06/08/2024 00:42 | WG2300315 |
| PCB 1248 | U | | 0.0157 | 0.0362 | 2 | 06/08/2024 00:42 | WG2300315 |
| PCB 1254 | U | | 0.0157 | 0.0362 | 2 | 06/08/2024 00:42 | WG2300315 |
| PCB 1260 | U | | 0.0157 | 0.0362 | 2 | 06/08/2024 00:42 | WG2300315 |
| *(S) Decachlorobiphenyl* | *86.4* | | | *10.0-135* | | *06/08/2024 00:42* | WG2300315 |
| *(S) Tetrachloro-m-xylene* | *78.6* | | | *10.0-139* | | *06/08/2024 00:42* | WG2300315 |

**Sample Narrative:**

L1741416-22 WG2300315: Dilution due to sulfur cleanup.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | 0.0173 | J | 0.0115 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Acenaphthylene | 0.0129 | J | 0.00998 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Anthracene | 0.0199 | J | 0.0127 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Benzidine | U | | 0.133 | 3.55 | 2 | 06/06/2024 19:51 | WG2299140 |
| Benzo(a)anthracene | 0.0700 | J | 0.0124 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Benzo(b)fluoranthene | 0.0966 | | 0.0132 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Benzo(k)fluoranthene | 0.0337 | J | 0.0125 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Benzo(g,h,i)perylene | 0.0560 | J | 0.0130 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.0782 | | 0.0132 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0213 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0234 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0306 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0249 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.0124 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0247 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Chrysene | 0.0908 | | 0.0140 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Dibenz(a,h)anthracene | U | | 0.0197 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0210 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0215 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0211 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0262 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0203 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0232 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Fluoranthene | 0.186 | | 0.0128 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Fluorene | 0.0232 | J | 0.0115 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Hexachlorobenzene | U | | 0.0251 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0238 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Hexachlorocyclopentadiene | U | | 0.0372 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Hexachloroethane | U | | 0.0279 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 0.0536 | J | 0.0200 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Isophorone | U | | 0.0217 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Naphthalene | 0.0428 | J | 0.0178 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Nitrobenzene | U | | 0.0247 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.105 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| n-Nitrosodiphenylamine | U | | 0.0536 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0236 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Phenanthrene | 0.178 | | 0.0140 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0221 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0898 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Di-n-butyl phthalate | U | | 0.0242 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Diethyl phthalate | U | | 0.0234 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Dimethyl phthalate | U | | 0.150 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0479 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Pyrene | 0.175 | | 0.0138 | 0.0708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0221 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 4-Chloro-3-methylphenol | U | | 0.0230 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2-Chlorophenol | U | | 0.0234 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0206 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0185 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.161 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.166 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2-Nitrophenol | U | | 0.0253 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 4-Nitrophenol | U | | 0.0221 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Pentachlorophenol | U | | 0.0190 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| Phenol | U | | 0.0285 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0228 | 0.708 | 2 | 06/06/2024 19:51 | WG2299140 |
| *(S) 2-Fluorophenol* | *74.5* | | | *12.0-120* | | *06/06/2024 19:51* | WG2299140 |
| *(S) Phenol-d5* | *66.0* | | | *10.0-120* | | *06/06/2024 19:51* | WG2299140 |
| *(S) Nitrobenzene-d5* | *60.8* | | | *10.0-122* | | *06/06/2024 19:51* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *64.2* | | | *15.0-120* | | *06/06/2024 19:51* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *65.6* | | | *10.0-127* | | *06/06/2024 19:51* | WG2299140 |
| *(S) p-Terphenyl-d14* | *66.7* | | | *10.0-120* | | *06/06/2024 19:51* | WG2299140 |

**Sample Narrative:**

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1741416-22 WG2299140: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 81.5 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0632 | | 0.0221 | 0.0491 | 1 | 06/03/2024 00:00 | WG2296693 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.41 | J | 0.668 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| Arsenic | 5.49 | | 0.636 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| Barium | 210 | | 0.105 | 0.614 | 1 | 06/07/2024 19:26 | WG2299109 |
| Beryllium | 0.283 | | 0.0387 | 0.245 | 1 | 06/07/2024 19:26 | WG2299109 |
| Cadmium | 0.510 | J | 0.0578 | 0.614 | 1 | 06/07/2024 19:26 | WG2299109 |
| Chromium | 66.9 | | 0.163 | 1.23 | 1 | 06/07/2024 19:26 | WG2299109 |
| Cobalt | 13.1 | | 0.0995 | 1.23 | 1 | 06/07/2024 19:26 | WG2299109 |
| Copper | 30.8 | | 0.491 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| Lead | 32.6 | | 0.255 | 0.614 | 1 | 06/07/2024 19:26 | WG2299109 |
| Molybdenum | 1.20 | | 0.134 | 0.614 | 1 | 06/07/2024 19:26 | WG2299109 |
| Nickel | 67.1 | | 0.162 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| Selenium | U | | 0.937 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| Silver | U | | 0.156 | 1.23 | 1 | 06/07/2024 19:26 | WG2299109 |
| Thallium | U | | 0.483 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| Vanadium | 57.6 | | 0.621 | 2.45 | 1 | 06/07/2024 19:26 | WG2299109 |
| Zinc | 70.5 | | 1.02 | 6.14 | 1 | 06/07/2024 19:26 | WG2299109 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0543 | 0.0744 | 1 | 06/05/2024 04:29 | WG2298650 |
| Acrylonitrile | U | | 0.00537 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| Benzene | 0.00716 | | 0.000695 | 0.00149 | 1 | 06/05/2024 04:29 | WG2298650 |
| Bromobenzene | U | | 0.00134 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| Bromodichloromethane | U | | 0.00108 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Bromoform | U | | 0.00174 | 0.0372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Bromomethane | U | | 0.00293 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| n-Butylbenzene | U | | 0.00781 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| sec-Butylbenzene | 0.00936 | J | 0.00429 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| tert-Butylbenzene | U | | 0.00290 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| Carbon tetrachloride | U | | 0.00134 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| Chlorobenzene | U | | 0.000313 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Chlorodibromomethane | U | | 0.000911 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Chloroethane | U | | 0.00253 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| Chloroform | U | | 0.00153 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Chloromethane | U | | 0.00647 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00129 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000670 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00581 | 0.0372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.000965 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Dibromomethane | U | | 0.00112 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000633 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.000893 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00104 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00240 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.000731 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.000966 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.000902 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00109 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00155 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00211 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00120 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000746 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00113 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00170 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00205 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Di-isopropyl ether | U | | 0.000610 | 0.00149 | 1 | 06/05/2024 04:29 | WG2298650 |
| Ethylbenzene | 0.0147 | | 0.00110 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Hexachloro-1,3-butadiene | U | | 0.00893 | 0.0372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Isopropylbenzene | 0.0118 | | 0.000633 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| p-Isopropyltoluene | 0.00738 | J | 0.00380 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.0945 | 0.149 | 1 | 06/05/2024 04:29 | WG2298650 |
| Methylene Chloride | U | | 0.00988 | 0.0372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00339 | 0.0372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Methyl tert-butyl ether | U | | 0.000521 | 0.00149 | 1 | 06/05/2024 04:29 | WG2298650 |
| Naphthalene | 0.0118 | J | 0.00726 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| n-Propylbenzene | 0.0134 | | 0.00141 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| Styrene | U | | 0.000341 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00141 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00103 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00112 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Tetrachloroethene | U | | 0.00133 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Toluene | 0.00493 | J | 0.00194 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0109 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00655 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,1,1-Trichloroethane | U | | 0.00137 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.000889 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Trichloroethene | U | | 0.000869 | 0.00149 | 1 | 06/05/2024 04:29 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00123 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00241 | 0.0186 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2,4-Trimethylbenzene | 0.0341 | | 0.00235 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,2,3-Trimethylbenzene | 0.0213 | | 0.00235 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| 1,3,5-Trimethylbenzene | U | | 0.00298 | 0.00744 | 1 | 06/05/2024 04:29 | WG2298650 |
| Vinyl chloride | U | | 0.00173 | 0.00372 | 1 | 06/05/2024 04:29 | WG2298650 |
| Xylenes, Total | 0.0469 | | 0.00131 | 0.00968 | 1 | 06/05/2024 04:29 | WG2298650 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/05/2024 04:29* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/05/2024 04:29* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *103* | | | *70.0-130* | | *06/05/2024 04:29* | WG2298650 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0290 | 0.0834 | 2 | 06/08/2024 00:32 | WG2300315 |
| PCB 1221 | U | | 0.0290 | 0.0834 | 2 | 06/08/2024 00:32 | WG2300315 |
| PCB 1232 | U | | 0.0290 | 0.0834 | 2 | 06/08/2024 00:32 | WG2300315 |
| PCB 1242 | U | | 0.0290 | 0.0834 | 2 | 06/08/2024 00:32 | WG2300315 |
| PCB 1248 | U | | 0.0182 | 0.0417 | 2 | 06/08/2024 00:32 | WG2300315 |
| PCB 1254 | U | | 0.0182 | 0.0417 | 2 | 06/08/2024 00:32 | WG2300315 |
| PCB 1260 | U | | 0.0182 | 0.0417 | 2 | 06/08/2024 00:32 | WG2300315 |
| *(S) Decachlorobiphenyl* | *53.6* | | | *10.0-135* | | *06/08/2024 00:32* | WG2300315 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *56.7* | | | *10.0-139* | | *06/08/2024 00:32* | WG2300315 |

**Sample Narrative:**

L1741416-23 WG2300315: Dilution due to sulfur cleanup.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0369 | J | 0.00661 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Acenaphthylene | U | | 0.00576 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Anthracene | U | | 0.00728 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Benzidine | U | | 0.0768 | 2.05 | 1 | 06/11/2024 02:16 | WG2301591 |
| Benzo(a)anthracene | 0.0205 | J | 0.00720 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Benzo(b)fluoranthene | 0.0285 | J | 0.00762 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Benzo(k)fluoranthene | 0.0107 | J | 0.00726 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Benzo(g,h,i)perylene | 0.0178 | J | 0.00747 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Benzo(a)pyrene | 0.0218 | J | 0.00760 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0123 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0135 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0177 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0144 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.00718 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0142 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Chrysene | 0.0302 | J | 0.00812 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.0113 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0121 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0124 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0122 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0151 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0117 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0134 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Fluoranthene | 0.0420 | | 0.00737 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Fluorene | 0.00983 | J | 0.00665 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Hexachlorobenzene | U | | 0.0145 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0137 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0215 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Hexachloroethane | U | | 0.0161 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | 0.0148 | J | 0.0115 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Isophorone | U | | 0.0125 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Naphthalene | U | | 0.0103 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Nitrobenzene | U | | 0.0142 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.0606 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0309 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0136 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Phenanthrene | 0.0216 | J | 0.00811 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0128 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0518 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0140 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Diethyl phthalate | U | | 0.0135 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Dimethyl phthalate | U | | 0.0866 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0276 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Pyrene | 0.0547 | | 0.00795 | 0.0409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0128 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0133 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2-Chlorophenol | U | | 0.0135 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0119 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0107 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0926 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.0956 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2-Nitrophenol | U | | 0.0146 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 4-Nitrophenol | U | | 0.0128 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Pentachlorophenol | U | | 0.0110 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| Phenol | U | | 0.0164 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0131 | 0.409 | 1 | 06/11/2024 02:16 | WG2301591 |
| *(S) 2-Fluorophenol* | *59.9* | | | *12.0-120* | | *06/11/2024 02:16* | WG2301591 |
| *(S) Phenol-d5* | *50.0* | | | *10.0-120* | | *06/11/2024 02:16* | WG2301591 |
| *(S) Nitrobenzene-d5* | *48.9* | | | *10.0-122* | | *06/11/2024 02:16* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *55.4* | | | *15.0-120* | | *06/11/2024 02:16* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *38.2* | | | *10.0-127* | | *06/11/2024 02:16* | WG2301591 |
| *(S) p-Terphenyl-d14* | *56.9* | | | *10.0-120* | | *06/11/2024 02:16* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.9 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0591 | | 0.0222 | 0.0494 | 1 | 06/03/2024 00:02 | WG2296693 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.61 | J | 0.672 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| Arsenic | 4.53 | | 0.640 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| Barium | 189 | | 0.105 | 0.618 | 1 | 06/07/2024 19:30 | WG2299109 |
| Beryllium | 0.258 | | 0.0389 | 0.247 | 1 | 06/07/2024 19:30 | WG2299109 |
| Cadmium | 0.344 | J | 0.0582 | 0.618 | 1 | 06/07/2024 19:30 | WG2299109 |
| Chromium | 66.9 | | 0.164 | 1.24 | 1 | 06/07/2024 19:30 | WG2299109 |
| Cobalt | 13.1 | | 0.100 | 1.24 | 1 | 06/07/2024 19:30 | WG2299109 |
| Copper | 26.1 | | 0.494 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| Lead | 21.3 | | 0.257 | 0.618 | 1 | 06/07/2024 19:30 | WG2299109 |
| Molybdenum | 0.254 | J | 0.135 | 0.618 | 1 | 06/07/2024 19:30 | WG2299109 |
| Nickel | 66.8 | | 0.163 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| Selenium | U | | 0.944 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| Silver | U | | 0.157 | 1.24 | 1 | 06/07/2024 19:30 | WG2299109 |
| Thallium | U | | 0.487 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| Vanadium | 56.4 | | 0.625 | 2.47 | 1 | 06/07/2024 19:30 | WG2299109 |
| Zinc | 57.3 | | 1.03 | 6.18 | 1 | 06/07/2024 19:30 | WG2299109 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 4.30 | B | 1.27 | 3.83 | 25 | 06/04/2024 06:58 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.5* | | | *77.0-120* | | *06/04/2024 06:58* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0546 | 0.0748 | 1 | 06/05/2024 04:48 | WG2298650 |
| Acrylonitrile | U | | 0.00540 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| Benzene | 0.00245 | | 0.000698 | 0.00150 | 1 | 06/05/2024 04:48 | WG2298650 |
| Bromobenzene | U | | 0.00135 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| Bromodichloromethane | U | | 0.00108 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Bromoform | U | | 0.00175 | 0.0374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Bromomethane | U | | 0.00295 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| n-Butylbenzene | U | | 0.00785 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| sec-Butylbenzene | 0.00434 | J | 0.00431 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| tert-Butylbenzene | U | | 0.00292 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| Carbon tetrachloride | U | | 0.00134 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| Chlorobenzene | U | | 0.000314 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Chlorodibromomethane | U | | 0.000915 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Chloroethane | U | | 0.00254 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| Chloroform | U | | 0.00154 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Chloromethane | U | | 0.00651 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00129 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000673 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00583 | 0.0374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.000969 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Dibromomethane | U | | 0.00112 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000636 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.000897 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00105 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| Dichlorodifluoromethane | U | | 0.00241 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.000734 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.000971 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.000906 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00110 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00156 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00212 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00121 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000749 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00113 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00170 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00206 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Di-isopropyl ether | U | | 0.000613 | 0.00150 | 1 | 06/05/2024 04:48 | WG2298650 |
| Ethylbenzene | 0.00156 | J | 0.00110 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Hexachloro-1,3-butadiene | U | | 0.00897 | 0.0374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Isopropylbenzene | 0.00612 | | 0.000636 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| p-Isopropyltoluene | U | | 0.00381 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.0950 | 0.150 | 1 | 06/05/2024 04:48 | WG2298650 |
| Methylene Chloride | U | | 0.00993 | 0.0374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00341 | 0.0374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Methyl tert-butyl ether | U | | 0.000523 | 0.00150 | 1 | 06/05/2024 04:48 | WG2298650 |
| Naphthalene | U | | 0.00730 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| n-Propylbenzene | 0.00775 | | 0.00142 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| Styrene | U | | 0.000342 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00142 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00104 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00113 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Tetrachloroethene | U | | 0.00134 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Toluene | 0.00232 | J | 0.00194 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0110 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00658 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,1,1-Trichloroethane | U | | 0.00138 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.000893 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Trichloroethene | U | | 0.000873 | 0.00150 | 1 | 06/05/2024 04:48 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00124 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00242 | 0.0187 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2,4-Trimethylbenzene | 0.00972 | | 0.00236 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,2,3-Trimethylbenzene | U | | 0.00236 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| 1,3,5-Trimethylbenzene | 0.00316 | J | 0.00299 | 0.00748 | 1 | 06/05/2024 04:48 | WG2298650 |
| Vinyl chloride | U | | 0.00173 | 0.00374 | 1 | 06/05/2024 04:48 | WG2298650 |
| Xylenes, Total | 0.00990 | | 0.00132 | 0.00972 | 1 | 06/05/2024 04:48 | WG2298650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/05/2024 04:48* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/05/2024 04:48* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* | | *06/05/2024 04:48* | WG2298650 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 3.00 | J | 0.906 | 4.94 | 1 | 06/06/2024 20:18 | WG2299541 |
| C22-C32 Hydrocarbons | 4.53 | J | 1.64 | 4.94 | 1 | 06/06/2024 20:18 | WG2299541 |
| C32-C40 Hydrocarbons | U | | 1.64 | 4.94 | 1 | 06/06/2024 20:18 | WG2299541 |
| *(S) o-Terphenyl* | *47.4* | | | *18.0-148* | | *06/06/2024 20:18* | WG2299541 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00666 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Acenaphthylene | U | | 0.00579 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Anthracene | U | | 0.00733 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Benzidine | U | | 0.0773 | 2.06 | 1 | 06/11/2024 02:37 | WG2301591 |
| Benzo(a)anthracene | 0.00766 | J | 0.00725 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Benzo(b)fluoranthene | 0.00960 | J | 0.00767 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Benzo(k)fluoranthene | U | | 0.00731 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Benzo(g,h,i)perylene | U | | 0.00752 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Benzo(a)pyrene | U | | 0.00765 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0124 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0136 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0178 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0145 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.00723 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0143 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Chrysene | 0.0103 | J | 0.00818 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.0114 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0122 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0125 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0122 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0152 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0118 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0135 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Fluoranthene | 0.0101 | J | 0.00742 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Fluorene | U | | 0.00670 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Hexachlorobenzene | U | | 0.0146 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0138 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0216 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Hexachloroethane | U | | 0.0162 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0116 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Isophorone | U | | 0.0126 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Naphthalene | U | | 0.0103 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Nitrobenzene | U | | 0.0143 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.0610 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0311 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0137 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Phenanthrene | U | | 0.00817 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0128 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0521 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0141 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Diethyl phthalate | U | | 0.0136 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Dimethyl phthalate | U | | 0.0872 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0278 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Pyrene | 0.0143 | J | 0.00801 | 0.0411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0128 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0133 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2-Chlorophenol | U | | 0.0136 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0120 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0107 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0933 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.0962 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2-Nitrophenol | U | | 0.0147 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 4-Nitrophenol | U | | 0.0128 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Pentachlorophenol | U | | 0.0111 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| Phenol | U | | 0.0166 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0132 | 0.411 | 1 | 06/11/2024 02:37 | WG2301591 |
| *(S) 2-Fluorophenol* | *57.6* | | | *12.0-120* | | *06/11/2024 02:37* | WG2301591 |
| *(S) Phenol-d5* | *50.2* | | | *10.0-120* | | *06/11/2024 02:37* | WG2301591 |
| *(S) Nitrobenzene-d5* | *48.9* | | | *10.0-122* | | *06/11/2024 02:37* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *54.7* | | | *15.0-120* | | *06/11/2024 02:37* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *37.7* | | | *10.0-127* | | *06/11/2024 02:37* | WG2301591 |
| *(S) p-Terphenyl-d14* | *54.1* | | | *10.0-120* | | *06/11/2024 02:37* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.7 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.86 | B J | 1.36 | 4.09 | 25 | 06/04/2024 07:18 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.2* | | | *77.0-120* | | *06/04/2024 07:18* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0604 | 0.0827 | 1 | 06/05/2024 05:07 | WG2298650 |
| Acrylonitrile | U | | 0.00597 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| Benzene | U | | 0.000773 | 0.00165 | 1 | 06/05/2024 05:07 | WG2298650 |
| Bromobenzene | U | | 0.00149 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| Bromodichloromethane | U | | 0.00120 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Bromoform | U | | 0.00194 | 0.0414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Bromomethane | U | | 0.00326 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| n-Butylbenzene | U | | 0.00869 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| sec-Butylbenzene | U | | 0.00476 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| tert-Butylbenzene | U | | 0.00323 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| Carbon tetrachloride | U | | 0.00149 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| Chlorobenzene | U | | 0.000347 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Chlorodibromomethane | U | | 0.00101 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Chloroethane | U | | 0.00281 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| Chloroform | U | | 0.00170 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Chloromethane | U | | 0.00720 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00143 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000744 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00645 | 0.0414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.00107 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Dibromomethane | U | | 0.00124 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000703 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.000993 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00116 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| Dichlorodifluoromethane | U | | 0.00266 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.000812 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.00107 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.00100 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00121 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00172 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00235 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00134 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000829 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00125 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00189 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00228 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Di-isopropyl ether | U | | 0.000678 | 0.00165 | 1 | 06/05/2024 05:07 | WG2298650 |
| Ethylbenzene | U | | 0.00122 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Hexachloro-1,3-butadiene | U | | 0.00993 | 0.0414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Isopropylbenzene | U | | 0.000703 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| p-Isopropyltoluene | U | | 0.00422 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.105 | 0.165 | 1 | 06/05/2024 05:07 | WG2298650 |
| Methylene Chloride | U | | 0.0110 | 0.0414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00377 | 0.0414 | 1 | 06/05/2024 05:07 | WG2298650 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000579 | 0.00165 | 1 | 06/05/2024 05:07 | WG2298650 |
| Naphthalene | U | | 0.00807 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| n-Propylbenzene | U | | 0.00157 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| Styrene | U | | 0.000379 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00157 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00115 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00125 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Tetrachloroethene | U | | 0.00148 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Toluene | U | | 0.00215 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0121 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00728 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,1,1-Trichloroethane | U | | 0.00153 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.000988 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Trichloroethene | U | | 0.000966 | 0.00165 | 1 | 06/05/2024 05:07 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00137 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00268 | 0.0207 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2,4-Trimethylbenzene | U | | 0.00261 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,2,3-Trimethylbenzene | U | | 0.00261 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| 1,3,5-Trimethylbenzene | U | | 0.00331 | 0.00827 | 1 | 06/05/2024 05:07 | WG2298650 |
| Vinyl chloride | U | | 0.00192 | 0.00414 | 1 | 06/05/2024 05:07 | WG2298650 |
| Xylenes, Total | U | | 0.00146 | 0.0108 | 1 | 06/05/2024 05:07 | WG2298650 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* | | *06/05/2024 05:07* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/05/2024 05:07* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *06/05/2024 05:07* | WG2298650 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.944 | 5.15 | 1 | 06/06/2024 18:54 | WG2299541 |
| C22-C32 Hydrocarbons | U | | 1.71 | 5.15 | 1 | 06/06/2024 18:54 | WG2299541 |
| C32-C40 Hydrocarbons | U | | 1.71 | 5.15 | 1 | 06/06/2024 18:54 | WG2299541 |
| *(S) o-Terphenyl* | *64.4* | | | *18.0-148* | | *06/06/2024 18:54* | WG2299541 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.7 | | 1 | 06/01/2024 10:49 | WG2296617 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.105 | | 0.0196 | 0.0436 | 1 | 06/03/2024 00:05 | WG2296693 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 26.6 | | 0.593 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| Arsenic | 5.43 | | 0.565 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| Barium | 492 | | 0.0930 | 0.545 | 1 | 06/07/2024 17:35 | WG2299109 |
| Beryllium | 0.645 | | 0.0344 | 0.218 | 1 | 06/07/2024 17:35 | WG2299109 |
| Cadmium | 25.7 | | 0.0514 | 0.545 | 1 | 06/07/2024 17:35 | WG2299109 |
| Chromium | 50.4 | | 0.145 | 1.09 | 1 | 06/07/2024 17:35 | WG2299109 |
| Cobalt | 7.12 | | 0.0885 | 1.09 | 1 | 06/07/2024 17:35 | WG2299109 |
| Copper | 202 | | 0.436 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| Lead | 6190 | | 0.227 | 0.545 | 1 | 06/07/2024 17:35 | WG2299109 |
| Molybdenum | 5.64 | | 0.119 | 0.545 | 1 | 06/07/2024 17:35 | WG2299109 |
| Nickel | 40.8 | | 0.144 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| Selenium | U | | 0.834 | 2.18 | 1 | 06/07/2024 17:35 | WG2299109 |
| Silver | 1.99 | B | 0.139 | 1.09 | 1 | 06/07/2024 17:35 | WG2299109 |
| Thallium | U | | 0.430 | 2.18 | 1 | 06/08/2024 18:05 | WG2299109 |
| Vanadium | 14.6 | | 0.552 | 2.18 | 1 | 06/08/2024 18:05 | WG2299109 |
| Zinc | 5690 | | 4.54 | 27.3 | 5 | 06/08/2024 17:58 | WG2299109 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0129 | 0.0371 | 1 | 06/06/2024 00:24 | WG2298713 |
| PCB 1221 | U | | 0.0129 | 0.0371 | 1 | 06/06/2024 00:24 | WG2298713 |
| PCB 1232 | U | | 0.0129 | 0.0371 | 1 | 06/06/2024 00:24 | WG2298713 |
| PCB 1242 | U | | 0.0129 | 0.0371 | 1 | 06/06/2024 00:24 | WG2298713 |
| PCB 1248 | U | | 0.00805 | 0.0185 | 1 | 06/06/2024 00:24 | WG2298713 |
| PCB 1254 | U | | 0.00805 | 0.0185 | 1 | 06/06/2024 00:24 | WG2298713 |
| PCB 1260 | 0.0442 | | 0.00805 | 0.0185 | 1 | 06/06/2024 00:24 | WG2298713 |
| *(S) Decachlorobiphenyl* | *94.0* | | | *10.0-135* | | *06/06/2024 00:24* | WG2298713 |
| *(S) Tetrachloro-m-xylene* | *87.2* | | | *10.0-139* | | *06/06/2024 00:24* | WG2298713 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0118 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Acenaphthylene | U | | 0.0102 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Anthracene | 0.0144 | J | 0.0130 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Benzidine | U | | 0.136 | 3.64 | 2 | 06/06/2024 23:15 | WG2299140 |
| Benzo(a)anthracene | 0.0538 | J | 0.0128 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Benzo(b)fluoranthene | 0.0986 | | 0.0135 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Benzo(k)fluoranthene | 0.0321 | J | 0.0129 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Benzo(g,h,i)perylene | 0.0406 | J | 0.0133 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Benzo(a)pyrene | 0.0526 | J | 0.0135 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Bis(2-chlorethoxy)methane | U | | 0.0218 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Bis(2-chloroethyl)ether | U | | 0.0240 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0314 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 4-Bromophenyl-phenylether | U | | 0.0255 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2-Chloronaphthalene | U | | 0.0128 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 4-Chlorophenyl-phenylether | U | | 0.0253 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Chrysene | 0.0532 | J | 0.0144 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Dibenz(a,h)anthracene | U | | 0.0202 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 1,2-Dichlorobenzene | U | | 0.0215 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 1,3-Dichlorobenzene | U | | 0.0220 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 1,4-Dichlorobenzene | U | | 0.0216 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 3,3-Dichlorobenzidine | U | | 0.0268 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2,4-Dinitrotoluene | U | | 0.0208 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2,6-Dinitrotoluene | U | | 0.0238 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Fluoranthene | 0.0909 | | 0.0131 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Fluorene | U | | 0.0118 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Hexachlorobenzene | U | | 0.0257 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Hexachloro-1,3-butadiene | U | | 0.0244 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Hexachlorocyclopentadiene | U | | 0.0382 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Hexachloroethane | U | | 0.0286 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Indeno(1,2,3-cd)pyrene | 0.0361 | J | 0.0205 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Isophorone | U | | 0.0223 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Naphthalene | 0.0389 | J | 0.0182 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Nitrobenzene | U | | 0.0253 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| n-Nitrosodimethylamine | U | | 0.108 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| n-Nitrosodiphenylamine | U | | 0.0550 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| n-Nitrosodi-n-propylamine | U | | 0.0242 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Phenanthrene | 0.0694 | J | 0.0144 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Benzylbutyl phthalate | U | | 0.0227 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0921 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Di-n-butyl phthalate | U | | 0.0249 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Diethyl phthalate | U | | 0.0240 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Dimethyl phthalate | U | | 0.154 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Di-n-octyl phthalate | U | | 0.0491 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Pyrene | 0.0781 | | 0.0142 | 0.0727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 1,2,4-Trichlorobenzene | U | | 0.0227 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 4-Chloro-3-methylphenol | U | | 0.0236 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2-Chlorophenol | U | | 0.0240 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2,4-Dichlorophenol | U | | 0.0212 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2,4-Dimethylphenol | U | | 0.0190 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 4,6-Dinitro-2-methylphenol | U | | 0.165 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2,4-Dinitrophenol | U | | 0.170 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2-Nitrophenol | U | | 0.0260 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 4-Nitrophenol | U | | 0.0227 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Pentachlorophenol | U | | 0.0195 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| Phenol | U | | 0.0292 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| 2,4,6-Trichlorophenol | U | | 0.0233 | 0.727 | 2 | 06/06/2024 23:15 | WG2299140 |
| *(S) 2-Fluorophenol* | *71.1* | | | *12.0-120* | | *06/06/2024 23:15* | WG2299140 |
| *(S) Phenol-d5* | *64.4* | | | *10.0-120* | | *06/06/2024 23:15* | WG2299140 |
| *(S) Nitrobenzene-d5* | *68.9* | | | *10.0-122* | | *06/06/2024 23:15* | WG2299140 |
| *(S) 2-Fluorobiphenyl* | *67.1* | | | *15.0-120* | | *06/06/2024 23:15* | WG2299140 |
| *(S) 2,4,6-Tribromophenol* | *70.0* | | | *10.0-127* | | *06/06/2024 23:15* | WG2299140 |
| *(S) p-Terphenyl-d14* | *62.2* | | | *10.0-120* | | *06/06/2024 23:15* | WG2299140 |

**Sample Narrative:**

L1741416-27 WG2299140: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 84.5 | | 1 | 06/01/2024 10:34 | WG2296618 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.630 | | 0.0213 | 0.0473 | 1 | 06/03/2024 00:07 | WG2296693 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 11.5 | | 0.644 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| Arsenic | 5.76 | | 0.613 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| Barium | 170 | | 0.101 | 0.591 | 1 | 06/07/2024 17:38 | WG2299109 |
| Beryllium | 0.343 | | 0.0373 | 0.237 | 1 | 06/07/2024 17:38 | WG2299109 |
| Cadmium | 9.05 | | 0.0557 | 0.591 | 1 | 06/07/2024 17:38 | WG2299109 |
| Chromium | 39.1 | | 0.157 | 1.18 | 1 | 06/07/2024 17:38 | WG2299109 |
| Cobalt | 7.71 | | 0.0959 | 1.18 | 1 | 06/07/2024 17:38 | WG2299109 |
| Copper | 165 | | 0.473 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| Lead | 2500 | | 0.246 | 0.591 | 1 | 06/07/2024 17:38 | WG2299109 |
| Molybdenum | 1.49 | | 0.129 | 0.591 | 1 | 06/07/2024 17:38 | WG2299109 |
| Nickel | 29.9 | | 0.156 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| Selenium | U | | 0.904 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| Silver | 1.61 | B | 0.150 | 1.18 | 1 | 06/07/2024 17:38 | WG2299109 |
| Thallium | U | | 2.33 | 11.8 | 5 | 06/08/2024 18:00 | WG2299109 |
| Vanadium | 45.4 | | 0.599 | 2.37 | 1 | 06/07/2024 17:38 | WG2299109 |
| Zinc | 2720 | | 4.92 | 29.6 | 5 | 06/08/2024 18:00 | WG2299109 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0513 | 0.0703 | 1 | 06/05/2024 05:26 | WG2298650 |
| Acrylonitrile | U | | 0.00508 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| Benzene | 0.000865 | J | 0.000657 | 0.00141 | 1 | 06/05/2024 05:26 | WG2298650 |
| Bromobenzene | U | | 0.00127 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| Bromodichloromethane | U | | 0.00102 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Bromoform | U | | 0.00165 | 0.0352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Bromomethane | U | | 0.00277 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| n-Butylbenzene | U | | 0.00739 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| sec-Butylbenzene | U | | 0.00405 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| tert-Butylbenzene | U | | 0.00274 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| Carbon tetrachloride | U | | 0.00126 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| Chlorobenzene | U | | 0.000295 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Chlorodibromomethane | U | | 0.000861 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Chloroethane | U | | 0.00239 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| Chloroform | U | | 0.00145 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Chloromethane | U | | 0.00612 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00122 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000633 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00549 | 0.0352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.000912 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Dibromomethane | U | | 0.00106 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000598 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.000844 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.000985 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00226 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.000691 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.000913 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,1-Dichloroethene | 0.000865 | J | 0.000852 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00103 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00146 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00200 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00114 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000705 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00106 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00160 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00194 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Di-isopropyl ether | U | | 0.000577 | 0.00141 | 1 | 06/05/2024 05:26 | WG2298650 |
| Ethylbenzene | 0.00127 | J | 0.00104 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Hexachloro-1,3-butadiene | U | | 0.00844 | 0.0352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Isopropylbenzene | 0.00121 | J | 0.000598 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| p-Isopropyltoluene | U | | 0.00359 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.0893 | 0.141 | 1 | 06/05/2024 05:26 | WG2298650 |
| Methylene Chloride | U | | 0.00934 | 0.0352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00321 | 0.0352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Methyl tert-butyl ether | U | | 0.000492 | 0.00141 | 1 | 06/05/2024 05:26 | WG2298650 |
| Naphthalene | 0.0117 | J | 0.00687 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| n-Propylbenzene | U | | 0.00134 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| Styrene | U | | 0.000322 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00133 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000978 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00106 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Tetrachloroethene | 0.00779 | | 0.00126 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Toluene | 0.00582 | J | 0.00183 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0103 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00619 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,1,1-Trichloroethane | 0.0734 | | 0.00130 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.000840 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Trichloroethene | U | | 0.000822 | 0.00141 | 1 | 06/05/2024 05:26 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00116 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00228 | 0.0176 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2,4-Trimethylbenzene | 0.00758 | | 0.00222 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,2,3-Trimethylbenzene | 0.00626 | J | 0.00222 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| 1,3,5-Trimethylbenzene | U | | 0.00281 | 0.00703 | 1 | 06/05/2024 05:26 | WG2298650 |
| Vinyl chloride | U | | 0.00163 | 0.00352 | 1 | 06/05/2024 05:26 | WG2298650 |
| Xylenes, Total | 0.0160 | | 0.00124 | 0.00914 | 1 | 06/05/2024 05:26 | WG2298650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/05/2024 05:26* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/05/2024 05:26* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *92.5* | | | *70.0-130* | | *06/05/2024 05:26* | WG2298650 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0140 | 0.0402 | 1 | 06/20/2024 02:07 | WG2307723 |
| PCB 1221 | U | | 0.0140 | 0.0402 | 1 | 06/20/2024 02:07 | WG2307723 |
| PCB 1232 | U | | 0.0140 | 0.0402 | 1 | 06/20/2024 02:07 | WG2307723 |
| PCB 1242 | U | | 0.0140 | 0.0402 | 1 | 06/20/2024 02:07 | WG2307723 |
| PCB 1248 | U | | 0.00873 | 0.0201 | 1 | 06/20/2024 02:07 | WG2307723 |
| PCB 1254 | U | | 0.00873 | 0.0201 | 1 | 06/20/2024 02:07 | WG2307723 |
| PCB 1260 | 0.0331 | | 0.00873 | 0.0201 | 1 | 06/20/2024 02:07 | WG2307723 |
| *(S) Decachlorobiphenyl* | *81.6* | | | *10.0-135* | | *06/20/2024 02:07* | WG2307723 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *65.0* | | | *10.0-139* | | *06/20/2024 02:07* | WG2307723 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0536 | J | 0.0128 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Acenaphthylene | 0.0259 | J | 0.0111 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Anthracene | 0.187 | | 0.0141 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Benzidine | U | | 0.148 | 3.95 | 2 | 06/11/2024 03:39 | WG2301591 |
| Benzo(a)anthracene | 0.654 | | 0.0138 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Benzo(b)fluoranthene | 0.926 | | 0.0147 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Benzo(k)fluoranthene | 0.304 | | 0.0140 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Benzo(g,h,i)perylene | 0.440 | | 0.0144 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Benzo(a)pyrene | 0.672 | | 0.0147 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0237 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0260 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0341 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0277 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0138 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0274 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Chrysene | 0.731 | | 0.0156 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Dibenz(a,h)anthracene | 0.116 | | 0.0219 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0233 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0239 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0234 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0291 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0226 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0258 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Fluoranthene | 1.08 | | 0.0142 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Fluorene | 0.0510 | J | 0.0128 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Hexachlorobenzene | U | | 0.0279 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0265 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0414 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Hexachloroethane | U | | 0.0310 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | 0.461 | | 0.0222 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Isophorone | U | | 0.0241 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Naphthalene | 0.0699 | J | 0.0198 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Nitrobenzene | U | | 0.0274 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.117 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0596 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0263 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Phenanthrene | 0.673 | | 0.0156 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0246 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0998 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0270 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Diethyl phthalate | U | | 0.0260 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Dimethyl phthalate | U | | 0.167 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0532 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Pyrene | 1.31 | | 0.0154 | 0.0788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0246 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0256 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2-Chlorophenol | U | | 0.0260 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0229 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0206 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.179 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.185 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0282 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 4-Nitrophenol | U | | 0.0246 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Pentachlorophenol | U | | 0.0212 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| Phenol | U | | 0.0317 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0253 | 0.788 | 2 | 06/11/2024 03:39 | WG2301591 |
| *(S) 2-Fluorophenol* | *55.9* | | | *12.0-120* | | *06/11/2024 03:39* | WG2301591 |
| *(S) Phenol-d5* | *51.3* | | | *10.0-120* | | *06/11/2024 03:39* | WG2301591 |
| *(S) Nitrobenzene-d5* | *56.9* | | | *10.0-122* | | *06/11/2024 03:39* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *63.7* | | | *15.0-120* | | *06/11/2024 03:39* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *33.5* | | | *10.0-127* | | *06/11/2024 03:39* | WG2301591 |
| *(S) p-Terphenyl-d14* | *60.6* | | | *10.0-120* | | *06/11/2024 03:39* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.6 | | 1 | 06/01/2024 10:34 | WG2296618 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0574 | | 0.0223 | 0.0496 | 1 | 06/02/2024 21:26 | WG2296691 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.90 | J | 0.675 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| Arsenic | 3.66 | | 0.643 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| Barium | 157 | | 0.106 | 0.620 | 1 | 06/07/2024 17:41 | WG2299109 |
| Beryllium | 0.216 | J | 0.0391 | 0.248 | 1 | 06/07/2024 17:41 | WG2299109 |
| Cadmium | 0.439 | J | 0.0584 | 0.620 | 1 | 06/07/2024 17:41 | WG2299109 |
| Chromium | 52.6 | | 0.165 | 1.24 | 1 | 06/07/2024 17:41 | WG2299109 |
| Cobalt | 10.9 | | 0.101 | 1.24 | 1 | 06/07/2024 17:41 | WG2299109 |
| Copper | 20.3 | | 0.496 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| Lead | 24.3 | | 0.258 | 0.620 | 1 | 06/07/2024 17:41 | WG2299109 |
| Molybdenum | 0.269 | J | 0.135 | 0.620 | 1 | 06/07/2024 17:41 | WG2299109 |
| Nickel | 53.9 | | 0.164 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| Selenium | U | | 0.948 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| Silver | U | | 0.158 | 1.24 | 1 | 06/07/2024 17:41 | WG2299109 |
| Thallium | U | | 0.489 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| Vanadium | 44.8 | | 0.628 | 2.48 | 1 | 06/07/2024 17:41 | WG2299109 |
| Zinc | 75.5 | | 1.03 | 6.20 | 1 | 06/07/2024 17:41 | WG2299109 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.48 | B J | 1.28 | 3.86 | 25 | 06/04/2024 07:37 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.1* | | | *77.0-120* | | *06/04/2024 07:37* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0556 | 0.0761 | 1 | 06/05/2024 05:45 | WG2298650 |
| Acrylonitrile | U | | 0.00550 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| Benzene | U | | 0.000711 | 0.00152 | 1 | 06/05/2024 05:45 | WG2298650 |
| Bromobenzene | U | | 0.00137 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| Bromodichloromethane | U | | 0.00110 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Bromoform | U | | 0.00178 | 0.0381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Bromomethane | U | | 0.00300 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| n-Butylbenzene | U | | 0.00799 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| sec-Butylbenzene | U | | 0.00438 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| tert-Butylbenzene | U | | 0.00297 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| Carbon tetrachloride | U | | 0.00137 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| Chlorobenzene | U | | 0.000320 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Chlorodibromomethane | U | | 0.000932 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Chloroethane | U | | 0.00259 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| Chloroform | U | | 0.00157 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Chloromethane | U | | 0.00662 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000685 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00594 | 0.0381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.000986 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Dibromomethane | U | | 0.00114 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000647 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.000913 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| Dichlorodifluoromethane | U | | 0.00245 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.000747 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.000988 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.000922 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00158 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00216 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00123 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000763 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00115 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00174 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00210 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Di-isopropyl ether | U | | 0.000624 | 0.00152 | 1 | 06/05/2024 05:45 | WG2298650 |
| Ethylbenzene | U | | 0.00112 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Hexachloro-1,3-butadiene | U | | 0.00913 | 0.0381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Isopropylbenzene | U | | 0.000647 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| p-Isopropyltoluene | U | | 0.00388 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.0967 | 0.152 | 1 | 06/05/2024 05:45 | WG2298650 |
| Methylene Chloride | U | | 0.0101 | 0.0381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00347 | 0.0381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Methyl tert-butyl ether | U | | 0.000533 | 0.00152 | 1 | 06/05/2024 05:45 | WG2298650 |
| Naphthalene | U | | 0.00743 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| n-Propylbenzene | U | | 0.00145 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| Styrene | U | | 0.000349 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00144 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Tetrachloroethene | U | | 0.00136 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Toluene | U | | 0.00198 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00670 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,1,1-Trichloroethane | 0.00239 | J | 0.00140 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.000909 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Trichloroethene | U | | 0.000889 | 0.00152 | 1 | 06/05/2024 05:45 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00247 | 0.0190 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2,4-Trimethylbenzene | U | | 0.00241 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,2,3-Trimethylbenzene | U | | 0.00241 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| 1,3,5-Trimethylbenzene | U | | 0.00304 | 0.00761 | 1 | 06/05/2024 05:45 | WG2298650 |
| Vinyl chloride | U | | 0.00177 | 0.00381 | 1 | 06/05/2024 05:45 | WG2298650 |
| Xylenes, Total | U | | 0.00134 | 0.00989 | 1 | 06/05/2024 05:45 | WG2298650 |
| *(S) Toluene-d8* | *105* | | | *75.0-131* | | *06/05/2024 05:45* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/05/2024 05:45* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *93.2* | | | *70.0-130* | | *06/05/2024 05:45* | WG2298650 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.39 | J | 0.909 | 4.96 | 1 | 06/06/2024 20:04 | WG2299541 |
| C22-C32 Hydrocarbons | 2.16 | J | 1.65 | 4.96 | 1 | 06/06/2024 20:04 | WG2299541 |
| C32-C40 Hydrocarbons | U | | 1.65 | 4.96 | 1 | 06/06/2024 20:04 | WG2299541 |
| *(S) o-Terphenyl* | *64.1* | | | *18.0-148* | | *06/06/2024 20:04* | WG2299541 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00669 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Acenaphthylene | U | | 0.00582 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Anthracene | U | | 0.00736 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Benzidine | U | J6 | 0.0777 | 2.07 | 1 | 06/11/2024 01:15 | WG2301591 |
| Benzo(a)anthracene | U | | 0.00728 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Benzo(b)fluoranthene | U | | 0.00770 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Benzo(k)fluoranthene | U | | 0.00734 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Benzo(g,h,i)perylene | U | | 0.00755 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Benzo(a)pyrene | U | | 0.00768 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0124 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0136 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0179 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0145 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.00726 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0144 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Chrysene | U | | 0.00821 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.0114 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0122 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0125 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0123 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0153 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0118 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0135 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Fluoranthene | U | | 0.00745 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Fluorene | U | | 0.00672 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Hexachlorobenzene | U | | 0.0146 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0139 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0217 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Hexachloroethane | U | | 0.0162 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0117 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Isophorone | U | | 0.0127 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Naphthalene | U | | 0.0104 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Nitrobenzene | U | | 0.0144 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.0613 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0313 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0138 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Phenanthrene | U | | 0.00820 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0129 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0523 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0141 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Diethyl phthalate | U | | 0.0136 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Dimethyl phthalate | U | | 0.0876 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0279 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Pyrene | U | | 0.00804 | 0.0413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0129 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0134 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2-Chlorophenol | U | | 0.0136 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0120 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0108 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0937 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.0966 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2-Nitrophenol | U | | 0.0148 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 4-Nitrophenol | U | | 0.0129 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Pentachlorophenol | U | | 0.0111 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| Phenol | U | | 0.0166 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0133 | 0.413 | 1 | 06/11/2024 01:15 | WG2301591 |
| *(S) 2-Fluorophenol* | *59.3* | | | *12.0-120* | | *06/11/2024 01:15* | WG2301591 |
| *(S) Phenol-d5* | *51.9* | | | *10.0-120* | | *06/11/2024 01:15* | WG2301591 |
| *(S) Nitrobenzene-d5* | *52.1* | | | *10.0-122* | | *06/11/2024 01:15* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *57.4* | | | *15.0-120* | | *06/11/2024 01:15* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *35.2* | | | *10.0-127* | | *06/11/2024 01:15* | WG2301591 |
| *(S) p-Terphenyl-d14* | *54.9* | | | *10.0-120* | | *06/11/2024 01:15* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.6 | | 1 | 06/01/2024 10:34 | WG2296618 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.74 | B J | 1.41 | 4.23 | 25 | 06/04/2024 07:56 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.7* | | | *77.0-120* | | *06/04/2024 07:56* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0614 | 0.0840 | 1 | 06/05/2024 06:04 | WG2298650 |
| Acrylonitrile | U | | 0.00607 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| Benzene | U | | 0.000785 | 0.00168 | 1 | 06/05/2024 06:04 | WG2298650 |
| Bromobenzene | U | | 0.00151 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| Bromodichloromethane | U | | 0.00122 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Bromoform | U | | 0.00197 | 0.0420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Bromomethane | U | | 0.00331 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| n-Butylbenzene | U | | 0.00883 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| sec-Butylbenzene | U | | 0.00484 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| tert-Butylbenzene | U | | 0.00328 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| Carbon tetrachloride | U | | 0.00151 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| Chlorobenzene | U | | 0.000353 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Chlorodibromomethane | U | | 0.00103 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Chloroethane | U | | 0.00286 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| Chloroform | U | | 0.00173 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Chloromethane | U | | 0.00731 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00145 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000756 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00656 | 0.0420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.00109 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Dibromomethane | U | | 0.00126 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000714 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.00101 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00118 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| Dichlorodifluoromethane | U | | 0.00271 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.000825 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.00109 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.00102 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00123 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00175 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00239 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00136 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000842 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00127 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00192 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00232 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Di-isopropyl ether | U | | 0.000689 | 0.00168 | 1 | 06/05/2024 06:04 | WG2298650 |
| Ethylbenzene | U | | 0.00124 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Hexachloro-1,3-butadiene | U | | 0.0101 | 0.0420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Isopropylbenzene | U | | 0.000714 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| p-Isopropyltoluene | U | | 0.00429 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.107 | 0.168 | 1 | 06/05/2024 06:04 | WG2298650 |
| Methylene Chloride | U | | 0.0112 | 0.0420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00383 | 0.0420 | 1 | 06/05/2024 06:04 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000588 | 0.00168 | 1 | 06/05/2024 06:04 | WG2298650 |
| Naphthalene | U | | 0.00820 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| n-Propylbenzene | U | | 0.00160 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| Styrene | U | | 0.000385 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00159 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00117 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00127 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Tetrachloroethene | U | | 0.00151 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Toluene | U | | 0.00219 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0123 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00740 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,1,1-Trichloroethane | U | | 0.00155 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.00100 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Trichloroethene | U | | 0.000982 | 0.00168 | 1 | 06/05/2024 06:04 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00139 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00272 | 0.0210 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2,4-Trimethylbenzene | U | | 0.00266 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,2,3-Trimethylbenzene | U | | 0.00266 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| 1,3,5-Trimethylbenzene | U | | 0.00336 | 0.00840 | 1 | 06/05/2024 06:04 | WG2298650 |
| Vinyl chloride | U | | 0.00195 | 0.00420 | 1 | 06/05/2024 06:04 | WG2298650 |
| Xylenes, Total | U | | 0.00148 | 0.0109 | 1 | 06/05/2024 06:04 | WG2298650 |
| *(S) Toluene-d8* | *105* | | | *75.0-131* | | *06/05/2024 06:04* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/05/2024 06:04* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* | | *06/05/2024 06:04* | WG2298650 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.41 | J | 0.957 | 5.22 | 1 | 06/06/2024 19:08 | WG2299541 |
| C22-C32 Hydrocarbons | 8.54 | | 1.74 | 5.22 | 1 | 06/06/2024 19:08 | WG2299541 |
| C32-C40 Hydrocarbons | U | | 1.74 | 5.22 | 1 | 06/06/2024 19:08 | WG2299541 |
| *(S) o-Terphenyl* | *73.2* | | | *18.0-148* | | *06/06/2024 19:08* | WG2299541 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 83.7 | | 1 | 06/01/2024 10:34 | WG2296618 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0318 | J | 0.0215 | 0.0478 | 1 | 06/02/2024 21:29 | WG2296691 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 2.51 | | 0.650 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| Arsenic | 2.12 | J | 0.619 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| Barium | 64.2 | | 0.102 | 0.597 | 1 | 06/07/2024 17:44 | WG2299109 |
| Beryllium | 0.185 | J | 0.0376 | 0.239 | 1 | 06/07/2024 17:44 | WG2299109 |
| Cadmium | 0.192 | J | 0.0562 | 0.597 | 1 | 06/07/2024 17:44 | WG2299109 |
| Chromium | 20.9 | | 0.159 | 1.19 | 1 | 06/07/2024 17:44 | WG2299109 |
| Cobalt | 4.12 | | 0.0968 | 1.19 | 1 | 06/07/2024 17:44 | WG2299109 |
| Copper | 33.4 | | 0.478 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| Lead | 43.3 | | 0.248 | 0.597 | 1 | 06/07/2024 17:44 | WG2299109 |
| Molybdenum | 0.452 | J | 0.130 | 0.597 | 1 | 06/07/2024 17:44 | WG2299109 |
| Nickel | 20.3 | | 0.158 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| Selenium | U | | 0.912 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| Silver | U | | 0.152 | 1.19 | 1 | 06/07/2024 17:44 | WG2299109 |
| Thallium | U | | 0.470 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| Vanadium | 25.4 | | 0.604 | 2.39 | 1 | 06/07/2024 17:44 | WG2299109 |
| Zinc | 96.3 | | 0.993 | 5.97 | 1 | 06/07/2024 17:44 | WG2299109 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0141 | 0.0406 | 1 | 06/05/2024 23:39 | WG2298869 |
| PCB 1221 | U | | 0.0141 | 0.0406 | 1 | 06/05/2024 23:39 | WG2298869 |
| PCB 1232 | U | | 0.0141 | 0.0406 | 1 | 06/05/2024 23:39 | WG2298869 |
| PCB 1242 | U | | 0.0141 | 0.0406 | 1 | 06/05/2024 23:39 | WG2298869 |
| PCB 1248 | U | | 0.00881 | 0.0203 | 1 | 06/05/2024 23:39 | WG2298869 |
| PCB 1254 | U | | 0.00881 | 0.0203 | 1 | 06/05/2024 23:39 | WG2298869 |
| PCB 1260 | U | | 0.00881 | 0.0203 | 1 | 06/05/2024 23:39 | WG2298869 |
| *(S) Decachlorobiphenyl* | *89.9* | | | *10.0-135* | | *06/05/2024 23:39* | WG2298869 |
| *(S) Tetrachloro-m-xylene* | *73.8* | | | *10.0-139* | | *06/05/2024 23:39* | WG2298869 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | 0.0688 | | 0.00644 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Acenaphthylene | 0.0738 | | 0.00560 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Anthracene | 0.195 | | 0.00708 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Benzidine | U | | 0.0747 | 1.99 | 1 | 06/07/2024 19:26 | WG2299143 |
| Benzo(a)anthracene | 0.617 | | 0.00701 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Benzo(b)fluoranthene | 1.03 | | 0.00742 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Benzo(k)fluoranthene | 0.371 | | 0.00707 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Benzo(g,h,i)perylene | 0.295 | | 0.00727 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Benzo(a)pyrene | 0.731 | | 0.00739 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Bis(2-chlorethoxy)methane | U | | 0.0119 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Bis(2-chloroethyl)ether | U | | 0.0131 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0172 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 4-Bromophenyl-phenylether | U | | 0.0140 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2-Chloronaphthalene | U | | 0.00699 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 4-Chlorophenyl-phenylether | U | | 0.0139 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Chrysene | 0.742 | | 0.00790 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Dibenz(a,h)anthracene | 0.0900 | | 0.0110 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 1,2-Dichlorobenzene | U | | 0.0118 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 1,3-Dichlorobenzene | U | | 0.0121 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 1,4-Dichlorobenzene | U | | 0.0118 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 3,3-Dichlorobenzidine | U | | 0.0147 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2,4-Dinitrotoluene | U | | 0.0114 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2,6-Dinitrotoluene | U | | 0.0130 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Fluoranthene | 1.07 | | 0.00718 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Fluorene | 0.158 | | 0.00647 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Hexachlorobenzene | U | | 0.0141 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Hexachloro-1,3-butadiene | U | | 0.0134 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Hexachlorocyclopentadiene | U | | 0.0209 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Hexachloroethane | U | | 0.0156 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Indeno(1,2,3-cd)pyrene | 0.338 | | 0.0112 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Isophorone | U | | 0.0122 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Naphthalene | 0.0768 | | 0.00998 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Nitrobenzene | U | | 0.0139 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| n-Nitrosodimethylamine | U | | 0.0590 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| n-Nitrosodiphenylamine | U | | 0.0301 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| n-Nitrosodi-n-propylamine | U | | 0.0133 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Phenanthrene | 0.875 | | 0.00789 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Benzylbutyl phthalate | U | | 0.0124 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0504 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Di-n-butyl phthalate | U | | 0.0136 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Diethyl phthalate | U | | 0.0131 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Dimethyl phthalate | U | | 0.0843 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Di-n-octyl phthalate | U | | 0.0269 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Pyrene | 1.09 | | 0.00774 | 0.0398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 1,2,4-Trichlorobenzene | U | | 0.0124 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 4-Chloro-3-methylphenol | U | | 0.0129 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2-Chlorophenol | U | | 0.0131 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2,4-Dichlorophenol | U | | 0.0116 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2,4-Dimethylphenol | U | | 0.0104 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0902 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2,4-Dinitrophenol | U | | 0.0930 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2-Nitrophenol | U | | 0.0142 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 4-Nitrophenol | U | | 0.0124 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Pentachlorophenol | U | | 0.0107 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| Phenol | U | | 0.0160 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| 2,4,6-Trichlorophenol | U | | 0.0128 | 0.398 | 1 | 06/07/2024 19:26 | WG2299143 |
| *(S) 2-Fluorophenol* | *52.5* | | | *12.0-120* | | *06/07/2024 19:26* | WG2299143 |
| *(S) Phenol-d5* | *50.0* | | | *10.0-120* | | *06/07/2024 19:26* | WG2299143 |
| *(S) Nitrobenzene-d5* | *47.9* | | | *10.0-122* | | *06/07/2024 19:26* | WG2299143 |
| *(S) 2-Fluorobiphenyl* | *54.9* | | | *15.0-120* | | *06/07/2024 19:26* | WG2299143 |
| *(S) 2,4,6-Tribromophenol* | *56.9* | | | *10.0-127* | | *06/07/2024 19:26* | WG2299143 |
| *(S) p-Terphenyl-d14* | *64.1* | | | *10.0-120* | | *06/07/2024 19:26* | WG2299143 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 88.8 | | 1 | 06/01/2024 10:34 | WG2296618 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0266 | J | 0.0203 | 0.0451 | 1 | 06/02/2024 21:31 | WG2296691 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.34 | J | 0.613 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| Arsenic | 1.81 | J | 0.583 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| Barium | 56.4 | | 0.0960 | 0.563 | 1 | 06/07/2024 17:48 | WG2299109 |
| Beryllium | 0.131 | J | 0.0355 | 0.225 | 1 | 06/07/2024 17:48 | WG2299109 |
| Cadmium | 0.257 | J | 0.0531 | 0.563 | 1 | 06/07/2024 17:48 | WG2299109 |
| Chromium | 14.9 | | 0.150 | 1.13 | 1 | 06/07/2024 17:48 | WG2299109 |
| Cobalt | 3.40 | | 0.0913 | 1.13 | 1 | 06/07/2024 17:48 | WG2299109 |
| Copper | 12.1 | | 0.451 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| Lead | 23.5 | | 0.234 | 0.563 | 1 | 06/07/2024 17:48 | WG2299109 |
| Molybdenum | 0.921 | | 0.123 | 0.563 | 1 | 06/07/2024 17:48 | WG2299109 |
| Nickel | 17.9 | | 0.149 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| Selenium | U | | 0.861 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| Silver | U | | 0.143 | 1.13 | 1 | 06/07/2024 17:48 | WG2299109 |
| Thallium | U | | 0.444 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| Vanadium | 13.3 | | 0.570 | 2.25 | 1 | 06/07/2024 17:48 | WG2299109 |
| Zinc | 46.9 | | 0.937 | 5.63 | 1 | 06/07/2024 17:48 | WG2299109 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0462 | 0.0633 | 1 | 06/05/2024 06:23 | WG2298650 |
| Acrylonitrile | U | | 0.00457 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| Benzene | 0.966 | | 0.000591 | 0.00127 | 1 | 06/05/2024 06:23 | WG2298650 |
| Bromobenzene | U | | 0.00114 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| Bromodichloromethane | U | | 0.000918 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Bromoform | U | | 0.00148 | 0.0317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Bromomethane | U | | 0.00249 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| n-Butylbenzene | 0.0843 | | 0.00665 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| sec-Butylbenzene | 0.130 | | 0.00365 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| tert-Butylbenzene | 0.0115 | | 0.00247 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| Carbon tetrachloride | U | | 0.00114 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| Chlorobenzene | U | | 0.000266 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Chlorodibromomethane | U | | 0.000775 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Chloroethane | 18.5 | | 0.0430 | 0.127 | 20 | 06/07/2024 01:25 | WG2300243 |
| Chloroform | U | | 0.00130 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Chloromethane | U | | 0.00551 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00110 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000570 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00494 | 0.0317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.000820 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Dibromomethane | U | | 0.000950 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000538 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.000760 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,4-Dichlorobenzene | 0.00146 | J | 0.000886 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00204 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,1-Dichloroethane | 1.70 | | 0.000622 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.000822 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,1-Dichloroethene | 0.161 | | 0.000767 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| cis-1,2-Dichloroethene | 0.00841 | | 0.000929 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00132 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00180 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00102 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000634 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.000958 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00144 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00175 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Di-isopropyl ether | U | | 0.000519 | 0.00127 | 1 | 06/05/2024 06:23 | WG2298650 |
| Ethylbenzene | 2.25 | | 0.000933 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Hexachloro-1,3-butadiene | U | | 0.00760 | 0.0317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Isopropylbenzene | 0.567 | | 0.000538 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| p-Isopropyltoluene | 0.107 | | 0.00323 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.0804 | 0.127 | 1 | 06/05/2024 06:23 | WG2298650 |
| Methylene Chloride | U | | 0.00841 | 0.0317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00289 | 0.0317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Methyl tert-butyl ether | U | | 0.000443 | 0.00127 | 1 | 06/05/2024 06:23 | WG2298650 |
| Naphthalene | 0.967 | | 0.00618 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| n-Propylbenzene | 0.928 | | 0.00120 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| Styrene | U | | 0.000290 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00120 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000880 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000955 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Tetrachloroethene | U | | 0.00113 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Toluene | 0.429 | | 0.00165 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.00928 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00557 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,1,1-Trichloroethane | 2.60 | | 0.00117 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.000756 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Trichloroethene | 0.000912 | J | 0.000739 | 0.00127 | 1 | 06/05/2024 06:23 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00105 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00205 | 0.0158 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2,4-Trimethylbenzene | 2.46 | | 0.00200 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,2,3-Trimethylbenzene | 0.901 | | 0.00200 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| 1,3,5-Trimethylbenzene | 1.13 | | 0.00253 | 0.00633 | 1 | 06/05/2024 06:23 | WG2298650 |
| Vinyl chloride | 0.101 | | 0.00147 | 0.00317 | 1 | 06/05/2024 06:23 | WG2298650 |
| Xylenes, Total | 6.80 | | 0.00111 | 0.00823 | 1 | 06/05/2024 06:23 | WG2298650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/05/2024 06:23* | WG2298650 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *06/07/2024 01:25* | WG2300243 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *67.0-138* | | *06/05/2024 06:23* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *67.0-138* | | *06/07/2024 01:25* | WG2300243 |
| *(S) 1,2-Dichloroethane-d4* | *96.5* | | | *70.0-130* | | *06/05/2024 06:23* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* | | *06/07/2024 01:25* | WG2300243 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0133 | 0.0383 | 1 | 06/06/2024 01:06 | WG2298869 |
| PCB 1221 | U | | 0.0133 | 0.0383 | 1 | 06/06/2024 01:06 | WG2298869 |
| PCB 1232 | U | | 0.0133 | 0.0383 | 1 | 06/06/2024 01:06 | WG2298869 |
| PCB 1242 | U | | 0.0133 | 0.0383 | 1 | 06/06/2024 01:06 | WG2298869 |
| PCB 1248 | U | | 0.00831 | 0.0191 | 1 | 06/06/2024 01:06 | WG2298869 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1254 | U | | 0.00831 | 0.0191 | 1 | 06/06/2024 01:06 | WG2298869 |
| PCB 1260 | U | | 0.00831 | 0.0191 | 1 | 06/06/2024 01:06 | WG2298869 |
| *(S) Decachlorobiphenyl* | *859* | J1 | | *10.0-135* | | *06/06/2024 01:06* | WG2298869 |
| *(S) Tetrachloro-m-xylene* | *80.3* | | | *10.0-139* | | *06/06/2024 01:06* | WG2298869 |

**Sample Narrative:**

L1741416-33 WG2298869: Surrogate failure due to matrix interference

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 1.22 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Acenaphthylene | U | | 1.06 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Anthracene | U | | 1.34 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Benzidine | U | | 14.1 | 376 | 200 | 06/12/2024 06:28 | WG2302475 |
| Benzo(a)anthracene | 14.5 | | 1.32 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Benzo(b)fluoranthene | 25.9 | | 1.40 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Benzo(k)fluoranthene | 8.52 | | 1.33 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Benzo(g,h,i)perylene | 13.1 | | 1.37 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Benzo(a)pyrene | 20.0 | | 1.40 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Bis(2-chlorethoxy)methane | U | | 2.25 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 2.48 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 3.24 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 2.64 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2-Chloronaphthalene | U | | 1.32 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 2.61 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Chrysene | 22.6 | | 1.49 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Dibenz(a,h)anthracene | 4.44 | J | 2.08 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 2.22 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 2.28 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 2.23 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 2.77 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 2.15 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 2.46 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Fluoranthene | 14.8 | | 1.35 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Fluorene | U | | 1.22 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Hexachlorobenzene | U | | 2.66 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 2.52 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 3.94 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Hexachloroethane | U | | 2.95 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | 13.0 | | 2.12 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Isophorone | U | | 2.30 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Naphthalene | U | | 1.88 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Nitrobenzene | U | | 2.61 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| n-Nitrosodimethylamine | U | | 11.1 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 5.68 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 2.50 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Phenanthrene | 2.84 | J | 1.49 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| Benzylbutyl phthalate | U | | 2.34 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 9.51 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Di-n-butyl phthalate | U | | 2.57 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Diethyl phthalate | U | | 2.48 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Dimethyl phthalate | U | | 15.9 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Di-n-octyl phthalate | U | | 5.07 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Pyrene | 18.0 | | 1.46 | 7.50 | 200 | 06/12/2024 06:28 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 2.34 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 2.43 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2-Chlorophenol | U | | 2.48 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2,4-Dichlorophenol | U | | 2.19 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2,4-Dimethylphenol | U | | 1.96 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 17.0 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2,4-Dinitrophenol | U | | 17.6 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2-Nitrophenol | U | | 2.68 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 4-Nitrophenol | U | | 2.34 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Pentachlorophenol | U | | 2.02 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| Phenol | U | | 3.02 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 2.41 | 75.0 | 200 | 06/12/2024 06:28 | WG2302475 |
| *(S) 2-Fluorophenol* | *0.000* | J7 | | *12.0-120* | | *06/12/2024 06:28* | WG2302475 |
| *(S) Phenol-d5* | *48.3* | J7 | | *10.0-120* | | *06/12/2024 06:28* | WG2302475 |
| *(S) Nitrobenzene-d5* | *0.000* | J7 | | *10.0-122* | | *06/12/2024 06:28* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *91.2* | J7 | | *15.0-120* | | *06/12/2024 06:28* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *0.000* | J7 | | *10.0-127* | | *06/12/2024 06:28* | WG2302475 |
| *(S) p-Terphenyl-d14* | *97.9* | J7 | | *10.0-120* | | *06/12/2024 06:28* | WG2302475 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.9 | | 1 | 06/01/2024 10:34 | WG2296618 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.128 | | 0.0212 | 0.0471 | 1 | 06/02/2024 21:34 | WG2296691 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 4.90 | | 0.641 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| Arsenic | 4.71 | | 0.610 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| Barium | 23.1 | | 0.100 | 0.589 | 1 | 06/07/2024 17:51 | WG2299109 |
| Beryllium | 0.0555 | J | 0.0371 | 0.236 | 1 | 06/07/2024 17:51 | WG2299109 |
| Cadmium | 0.0697 | J | 0.0555 | 0.589 | 1 | 06/07/2024 17:51 | WG2299109 |
| Chromium | 53.7 | | 0.157 | 1.18 | 1 | 06/07/2024 17:51 | WG2299109 |
| Cobalt | 4.36 | | 0.0955 | 1.18 | 1 | 06/07/2024 17:51 | WG2299109 |
| Copper | 136 | | 0.471 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| Lead | 29.6 | | 0.245 | 0.589 | 1 | 06/07/2024 17:51 | WG2299109 |
| Molybdenum | 5.59 | | 0.128 | 0.589 | 1 | 06/07/2024 17:51 | WG2299109 |
| Nickel | 31.9 | | 0.155 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| Selenium | U | | 0.900 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| Silver | U | | 0.150 | 1.18 | 1 | 06/07/2024 17:51 | WG2299109 |
| Thallium | U | | 0.464 | 2.36 | 1 | 06/08/2024 18:01 | WG2299109 |
| Vanadium | 10.7 | | 0.596 | 2.36 | 1 | 06/07/2024 17:51 | WG2299109 |
| Zinc | 26.1 | | 0.980 | 5.89 | 1 | 06/07/2024 17:51 | WG2299109 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 243 | | 1.13 | 3.42 | 25 | 06/04/2024 08:16 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *06/04/2024 08:16* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0498 | 0.0682 | 1 | 06/05/2024 06:42 | WG2298650 |
| Acrylonitrile | U | | 0.00493 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| Benzene | 0.490 | | 0.000637 | 0.00136 | 1 | 06/05/2024 06:42 | WG2298650 |
| Bromobenzene | U | | 0.00123 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| Bromodichloromethane | U | | 0.000989 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Bromoform | U | | 0.00160 | 0.0341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Bromomethane | U | | 0.00269 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| n-Butylbenzene | 0.184 | | 0.00716 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| sec-Butylbenzene | 0.206 | | 0.00393 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| tert-Butylbenzene | U | | 0.00266 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| Carbon tetrachloride | U | | 0.00123 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| Chlorobenzene | U | | 0.000287 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Chlorodibromomethane | U | | 0.000835 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Chloroethane | 12.6 | | 0.0186 | 0.0546 | 8 | 06/07/2024 01:06 | WG2300243 |
| Chloroform | U | | 0.00141 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Chloromethane | U | | 0.00594 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00118 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000614 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00532 | 0.0341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.000884 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Dibromomethane | U | | 0.00102 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000580 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.000819 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.000955 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| Dichlorodifluoromethane | U | | 0.00220 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,1-Dichloroethane | 0.351 | | 0.000670 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.000886 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,1-Dichloroethene | 0.0654 | | 0.000827 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00100 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00142 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00194 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00110 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000684 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00103 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00156 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00188 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Di-isopropyl ether | U | | 0.000559 | 0.00136 | 1 | 06/05/2024 06:42 | WG2298650 |
| Ethylbenzene | 5.03 | | 0.00805 | 0.0273 | 8 | 06/07/2024 01:06 | WG2300243 |
| Hexachloro-1,3-butadiene | U | | 0.00819 | 0.0341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Isopropylbenzene | 0.632 | | 0.000580 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| p-Isopropyltoluene | 0.0929 | | 0.00348 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.0866 | 0.136 | 1 | 06/05/2024 06:42 | WG2298650 |
| Methylene Chloride | U | | 0.00906 | 0.0341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00311 | 0.0341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Methyl tert-butyl ether | U | | 0.000478 | 0.00136 | 1 | 06/05/2024 06:42 | WG2298650 |
| Naphthalene | 0.0823 | | 0.00666 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| n-Propylbenzene | 2.09 | | 0.00130 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| Styrene | U | | 0.000312 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00129 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000948 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00103 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Tetrachloroethene | U | | 0.00122 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Toluene | 0.0937 | | 0.00177 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0100 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00600 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,1,1-Trichloroethane | 0.422 | | 0.00126 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.000815 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Trichloroethene | U | | 0.000797 | 0.00136 | 1 | 06/05/2024 06:42 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00113 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00221 | 0.0171 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2,4-Trimethylbenzene | 2.70 | | 0.00216 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,2,3-Trimethylbenzene | 0.621 | | 0.00216 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| 1,3,5-Trimethylbenzene | 1.34 | | 0.00273 | 0.00682 | 1 | 06/05/2024 06:42 | WG2298650 |
| Vinyl chloride | 0.00884 | | 0.00158 | 0.00341 | 1 | 06/05/2024 06:42 | WG2298650 |
| Xylenes, Total | 3.36 | | 0.00120 | 0.00887 | 1 | 06/05/2024 06:42 | WG2298650 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/05/2024 06:42* | WG2298650 |
| *(S) Toluene-d8* | *114* | | | *75.0-131* | | *06/07/2024 01:06* | WG2300243 |
| *(S) 4-Bromofluorobenzene* | *126* | | | *67.0-138* | | *06/05/2024 06:42* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *67.0-138* | | *06/07/2024 01:06* | WG2300243 |
| *(S) 1,2-Dichloroethane-d4* | *95.4* | | | *70.0-130* | | *06/05/2024 06:42* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *99.7* | | | *70.0-130* | | *06/07/2024 01:06* | WG2300243 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 67.0 | | 8.63 | 47.1 | 10 | 06/07/2024 10:21 | WG2299541 |
| C22-C32 Hydrocarbons | 267 | | 15.7 | 47.1 | 10 | 06/07/2024 10:21 | WG2299541 |
| C32-C40 Hydrocarbons | 236 | | 15.7 | 47.1 | 10 | 06/07/2024 10:21 | WG2299541 |
| *(S) o-Terphenyl* | *72.8* | | | *18.0-148* | | *06/07/2024 10:21* | WG2299541 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.201 | J | 0.0635 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Acenaphthylene | U | | 0.0552 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Anthracene | 0.280 | J | 0.0699 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Benzidine | U | | 0.737 | 19.7 | 10 | 06/11/2024 05:01 | WG2301591 |
| Benzo(a)anthracene | 7.40 | | 0.0691 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Benzo(b)fluoranthene | 14.1 | | 0.0732 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Benzo(k)fluoranthene | 5.11 | | 0.0697 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Benzo(g,h,i)perylene | 7.02 | | 0.0717 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Benzo(a)pyrene | 10.9 | | 0.0729 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.118 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.130 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.170 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.138 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0689 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.137 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Chrysene | 12.5 | | 0.0780 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Dibenz(a,h)anthracene | 2.21 | | 0.109 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.116 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.119 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.117 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.145 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.112 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.128 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Fluoranthene | 5.51 | | 0.0708 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Fluorene | 0.0642 | J | 0.0638 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Hexachlorobenzene | U | | 0.139 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.132 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.206 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Hexachloroethane | U | | 0.154 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | 6.76 | | 0.111 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Isophorone | U | | 0.120 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Naphthalene | 0.280 | J | 0.0985 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Nitrobenzene | U | | 0.137 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.582 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.297 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.131 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Phenanthrene | 1.27 | | 0.0779 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.123 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.497 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.134 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Diethyl phthalate | U | | 0.130 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Dimethyl phthalate | U | | 0.832 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.265 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Pyrene | 8.79 | | 0.0763 | 0.392 | 10 | 06/11/2024 05:01 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.123 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.127 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2-Chlorophenol | U | | 0.130 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.114 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.102 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.889 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.918 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2-Nitrophenol | U | | 0.140 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 4-Nitrophenol | U | | 0.123 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Pentachlorophenol | U | | 0.106 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| Phenol | U | | 0.158 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.126 | 3.92 | 10 | 06/11/2024 05:01 | WG2301591 |
| *(S) 2-Fluorophenol* | *59.5* | | | *12.0-120* | | *06/11/2024 05:01* | WG2301591 |
| *(S) Phenol-d5* | *53.4* | | | *10.0-120* | | *06/11/2024 05:01* | WG2301591 |
| *(S) Nitrobenzene-d5* | *53.8* | | | *10.0-122* | | *06/11/2024 05:01* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *61.6* | | | *15.0-120* | | *06/11/2024 05:01* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *38.3* | | | *10.0-127* | | *06/11/2024 05:01* | WG2301591 |
| *(S) p-Terphenyl-d14* | *55.3* | | | *10.0-120* | | *06/11/2024 05:01* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.0 | | 1 | 06/08/2024 11:13 | WG2301199 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.219 | 0.301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Acrylonitrile | U | | 0.0218 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Benzene | 0.152 | | 0.00281 | 0.00602 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Bromobenzene | U | | 0.00542 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Bromodichloromethane | U | | 0.00437 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Bromoform | U | | 0.00705 | 0.151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Bromomethane | U | | 0.0119 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| n-Butylbenzene | 0.338 | | 0.0316 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| sec-Butylbenzene | 0.442 | | 0.0174 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| tert-Butylbenzene | 0.243 | | 0.0117 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Carbon tetrachloride | U | | 0.00541 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Chlorobenzene | U | | 0.00126 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Chlorodibromomethane | U | | 0.00368 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Chloroethane | 1.92 | | 0.0102 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Chloroform | U | | 0.00620 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Chloromethane | U | | 0.0262 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00520 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 4-Chlorotoluene | U | | 0.00270 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0235 | 0.151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.00390 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Dibromomethane | U | | 0.00452 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2-Dichlorobenzene | U | | 0.00256 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.00361 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.00421 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Dichlorodifluoromethane | U | | 0.00969 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,1-Dichloroethane | 0.124 | | 0.00295 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.00390 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,1-Dichloroethene | 0.0171 | | 0.00365 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| cis-1,2-Dichloroethene | U | | 0.00442 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00626 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00855 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.00487 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.00301 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.00456 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00687 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00832 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Di-isopropyl ether | U | | 0.00247 | 0.00602 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Ethylbenzene | 0.503 | | 0.00444 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.0361 | 0.151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Isopropylbenzene | 0.775 | | 0.00256 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| p-Isopropyltoluene | 0.118 | | 0.0154 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.383 | 0.602 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Methylene Chloride | U | | 0.0401 | 0.151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0137 | 0.151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Methyl tert-butyl ether | U | | 0.00211 | 0.00602 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Naphthalene | 0.294 | | 0.0294 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| n-Propylbenzene | 2.12 | | 0.00572 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Styrene | U | | 0.00138 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00572 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00418 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00455 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Tetrachloroethene | U | | 0.00539 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Toluene | 0.148 | | 0.00784 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.0442 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.0265 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,1,1-Trichloroethane | 0.190 | | 0.00556 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.00360 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Trichloroethene | U | | 0.00352 | 0.00602 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00499 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00975 | 0.0753 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2,4-Trimethylbenzene | 1.28 | | 0.00952 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,2,3-Trimethylbenzene | 0.617 | | 0.00952 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| 1,3,5-Trimethylbenzene | 0.384 | | 0.0120 | 0.0301 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Vinyl chloride | U | | 0.00699 | 0.0151 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| Xylenes, Total | 1.74 | | 0.00531 | 0.0392 | 4.12 | 06/11/2024 17:12 | WG2302420 |
| *(S) Toluene-d8* | *86.2* | | | *75.0-131* | | *06/11/2024 17:12* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *257* | J1 | | *67.0-138* | | *06/11/2024 17:12* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *86.6* | | | *70.0-130* | | *06/11/2024 17:12* | WG2302420 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.133 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Acenaphthylene | U | | 0.116 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Anthracene | U | | 0.147 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Benzidine | U | | 1.54 | 41.2 | 20 | 06/13/2024 03:23 | WG2303704 |
| Benzo(a)anthracene | 1.73 | | 0.144 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Benzo(b)fluoranthene | 4.25 | | 0.153 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Benzo(k)fluoranthene | 1.37 | | 0.146 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Benzo(g,h,i)perylene | 1.53 | | 0.151 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Benzo(a)pyrene | 2.19 | | 0.153 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Bis(2-chlorethoxy)methane | U | | 0.247 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Bis(2-chloroethyl)ether | U | | 0.272 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.356 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 4-Bromophenyl-phenylether | U | | 0.289 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2-Chloronaphthalene | U | | 0.144 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| 4-Chlorophenyl-phenylether | U | | 0.286 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Chrysene | 3.49 | | 0.163 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Dibenz(a,h)anthracene | 0.533 | J | 0.228 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| 1,2-Dichlorobenzene | U | | 0.243 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 1,3-Dichlorobenzene | U | | 0.249 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 1,4-Dichlorobenzene | U | | 0.244 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 3,3-Dichlorobenzidine | U | | 0.304 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2,4-Dinitrotoluene | U | | 0.236 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2,6-Dinitrotoluene | U | | 0.269 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Fluoranthene | 1.26 | | 0.148 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Fluorene | U | | 0.133 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Hexachlorobenzene | U | | 0.291 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Hexachloro-1,3-butadiene | U | | 0.277 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Hexachlorocyclopentadiene | U | | 0.432 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Hexachloroethane | U | | 0.323 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Indeno(1,2,3-cd)pyrene | 1.48 | | 0.232 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Isophorone | U | | 0.252 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Naphthalene | 0.270 | J | 0.206 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Nitrobenzene | U | | 0.286 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| n-Nitrosodimethylamine | U | | 1.22 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | U | | 0.622 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| n-Nitrosodi-n-propylamine | U | | 0.274 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Phenanthrene | 0.522 | J | 0.163 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| Benzylbutyl phthalate | U | | 0.257 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Bis(2-ethylhexyl)phthalate | U | | 1.04 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Di-n-butyl phthalate | U | | 0.281 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Diethyl phthalate | U | | 0.272 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Dimethyl phthalate | U | | 1.74 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Di-n-octyl phthalate | U | | 0.556 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Pyrene | 1.85 | | 0.161 | 0.822 | 20 | 06/13/2024 03:23 | WG2303704 |
| 1,2,4-Trichlorobenzene | U | | 0.257 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 4-Chloro-3-methylphenol | U | | 0.267 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2-Chlorophenol | U | | 0.272 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2,4-Dichlorophenol | U | | 0.240 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2,4-Dimethylphenol | U | | 0.215 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 4,6-Dinitro-2-methylphenol | U | | 1.86 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2,4-Dinitrophenol | U | | 1.93 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2-Nitrophenol | U | | 0.294 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 4-Nitrophenol | U | | 0.257 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Pentachlorophenol | U | | 0.221 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| Phenol | U | | 0.331 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| 2,4,6-Trichlorophenol | U | | 0.264 | 8.22 | 20 | 06/13/2024 03:23 | WG2303704 |
| *(S) 2-Fluorophenol* | *0.000* | J7 | | *12.0-120* | | *06/13/2024 03:23* | WG2303704 |
| *(S) Phenol-d5* | *94.8* | J7 | | *10.0-120* | | *06/13/2024 03:23* | WG2303704 |
| *(S) Nitrobenzene-d5* | *0.000* | J7 | | *10.0-122* | | *06/13/2024 03:23* | WG2303704 |
| *(S) 2-Fluorobiphenyl* | *104* | J7 | | *15.0-120* | | *06/13/2024 03:23* | WG2303704 |
| *(S) 2,4,6-Tribromophenol* | *82.1* | J7 | | *10.0-127* | | *06/13/2024 03:23* | WG2303704 |
| *(S) p-Terphenyl-d14* | *110* | J7 | | *10.0-120* | | *06/13/2024 03:23* | WG2303704 |

**Sample Narrative:**

L1741416-35 WG2303704: Dilution due to matrix impact during concentration procedure. Surrogate failure due to matrix.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.9 | | 1 | 06/01/2024 10:34 | WG2296618 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 275 | | 2.14 | 6.44 | 42.8 | 06/04/2024 08:35 | WG2297583 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.8* | | | *77.0-120* | | *06/04/2024 08:35* | WG2297583 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0617 | 0.0845 | 1 | 06/05/2024 07:01 | WG2298650 |
| Acrylonitrile | U | | 0.00610 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| Benzene | 0.0147 | | 0.000789 | 0.00169 | 1 | 06/05/2024 07:01 | WG2298650 |
| Bromobenzene | U | | 0.00152 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| Bromodichloromethane | U | | 0.00123 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Bromoform | U | | 0.00198 | 0.0422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Bromomethane | U | | 0.00333 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| n-Butylbenzene | 0.179 | | 0.00887 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| sec-Butylbenzene | 0.163 | | 0.00487 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| tert-Butylbenzene | 0.0204 | | 0.00330 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| Carbon tetrachloride | U | | 0.00152 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| Chlorobenzene | U | | 0.000355 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Chlorodibromomethane | U | | 0.00103 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Chloroethane | 0.260 | | 0.00287 | 0.00845 | 1 | 06/06/2024 23:51 | WG2300243 |
| Chloroform | U | | 0.00174 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Chloromethane | U | | 0.00735 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00146 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000760 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00659 | 0.0422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.00110 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Dibromomethane | U | | 0.00127 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000718 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.00101 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00118 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| Dichlorodifluoromethane | U | | 0.00272 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,1-Dichloroethane | 0.00208 | J | 0.000830 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.00110 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.00102 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00124 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00176 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00240 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00137 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000847 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00128 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00193 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00233 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Di-isopropyl ether | U | | 0.000693 | 0.00169 | 1 | 06/05/2024 07:01 | WG2298650 |
| Ethylbenzene | 0.248 | | 0.00125 | 0.00422 | 1 | 06/06/2024 23:51 | WG2300243 |
| Hexachloro-1,3-butadiene | U | | 0.0101 | 0.0422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Isopropylbenzene | 0.330 | | 0.000718 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| p-Isopropyltoluene | 0.0542 | | 0.00431 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.107 | 0.169 | 1 | 06/05/2024 07:01 | WG2298650 |
| Methylene Chloride | U | | 0.0112 | 0.0422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00385 | 0.0422 | 1 | 06/05/2024 07:01 | WG2298650 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000591 | 0.00169 | 1 | 06/05/2024 07:01 | WG2298650 |
| Naphthalene | 0.357 | | 0.00825 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| n-Propylbenzene | 1.12 | | 0.00161 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| Styrene | U | | 0.000387 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00160 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00117 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00127 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Tetrachloroethene | U | | 0.00151 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Toluene | 0.00825 | J | 0.00220 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0124 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00744 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,1,1-Trichloroethane | U | | 0.00156 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.00101 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Trichloroethene | U | | 0.000987 | 0.00169 | 1 | 06/05/2024 07:01 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00140 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00274 | 0.0211 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2,4-Trimethylbenzene | 0.387 | | 0.00267 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,2,3-Trimethylbenzene | 0.766 | | 0.00267 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| 1,3,5-Trimethylbenzene | 0.102 | | 0.00338 | 0.00845 | 1 | 06/05/2024 07:01 | WG2298650 |
| Vinyl chloride | U | | 0.00196 | 0.00422 | 1 | 06/05/2024 07:01 | WG2298650 |
| Xylenes, Total | 0.0668 | | 0.00149 | 0.0110 | 1 | 06/05/2024 07:01 | WG2298650 |
| *(S) Toluene-d8* | *86.5* | | | *75.0-131* | | *06/05/2024 07:01* | WG2298650 |
| *(S) Toluene-d8* | *82.7* | | | *75.0-131* | | *06/06/2024 23:51* | WG2300243 |
| *(S) 4-Bromofluorobenzene* | *131* | | | *67.0-138* | | *06/05/2024 07:01* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *130* | | | *67.0-138* | | *06/06/2024 23:51* | WG2300243 |
| *(S) 1,2-Dichloroethane-d4* | *94.1* | | | *70.0-130* | | *06/05/2024 07:01* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *96.5* | | | *70.0-130* | | *06/06/2024 23:51* | WG2300243 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 9.48 | | 0.966 | 5.27 | 1 | 06/06/2024 21:00 | WG2299541 |
| C22-C32 Hydrocarbons | 8.67 | | 1.75 | 5.27 | 1 | 06/06/2024 21:00 | WG2299541 |
| C32-C40 Hydrocarbons | 10.1 | | 1.75 | 5.27 | 1 | 06/06/2024 21:00 | WG2299541 |
| *(S) o-Terphenyl* | *61.9* | | | *18.0-148* | | *06/06/2024 21:00* | WG2299541 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.142 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Acenaphthylene | U | | 0.124 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Anthracene | U | | 0.157 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Benzidine | U | J5 | 1.65 | 44.0 | 20 | 06/13/2024 04:24 | WG2303704 |
| Benzo(a)anthracene | U | | 0.154 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Benzo(b)fluoranthene | U | | 0.163 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Benzo(k)fluoranthene | U | | 0.156 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Benzo(g,h,i)perylene | U | | 0.161 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Benzo(a)pyrene | U | | 0.163 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Bis(2-chlorethoxy)methane | U | | 0.264 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Bis(2-chloroethyl)ether | U | J3 J5 J6 | 0.290 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2,2-Oxybis(1-Chloropropane) | U | J3 J6 | 0.380 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 4-Bromophenyl-phenylether | U | | 0.308 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2-Chloronaphthalene | U | | 0.154 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| 4-Chlorophenyl-phenylether | U | | 0.306 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Chrysene | U | | 0.174 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | U | | 0.244 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| 1,2-Dichlorobenzene | U | | 0.260 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 1,3-Dichlorobenzene | U | | 0.266 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 1,4-Dichlorobenzene | U | | 0.261 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 3,3-Dichlorobenzidine | U | | 0.324 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2,4-Dinitrotoluene | U | | 0.252 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2,6-Dinitrotoluene | U | | 0.287 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Fluoranthene | U | | 0.158 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Fluorene | U | | 0.142 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Hexachlorobenzene | U | | 0.311 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Hexachloro-1,3-butadiene | U | | 0.295 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Hexachlorocyclopentadiene | U | J6 | 0.461 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Hexachloroethane | U | J5 | 0.345 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Indeno(1,2,3-cd)pyrene | U | | 0.248 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Isophorone | U | J5 | 0.269 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Naphthalene | 0.246 | J | 0.220 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Nitrobenzene | U | | 0.306 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| n-Nitrosodimethylamine | U | J6 | 1.30 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| n-Nitrosodiphenylamine | U | | 0.664 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| n-Nitrosodi-n-propylamine | U | J3 J5 J6 | 0.293 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Phenanthrene | 0.200 | J | 0.174 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| Benzylbutyl phthalate | U | | 0.274 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Bis(2-ethylhexyl)phthalate | U | J6 | 1.11 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Di-n-butyl phthalate | U | | 0.301 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Diethyl phthalate | U | | 0.290 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Dimethyl phthalate | U | | 1.86 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Di-n-octyl phthalate | U | | 0.593 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Pyrene | U | J5 | 0.171 | 0.878 | 20 | 06/13/2024 04:24 | WG2303704 |
| 1,2,4-Trichlorobenzene | U | | 0.274 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 4-Chloro-3-methylphenol | U | | 0.285 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2-Chlorophenol | U | | 0.290 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2,4-Dichlorophenol | U | J3 | 0.256 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2,4-Dimethylphenol | U | J5 | 0.229 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 4,6-Dinitro-2-methylphenol | U | | 1.99 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2,4-Dinitrophenol | U | J6 | 2.06 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2-Nitrophenol | U | J5 | 0.314 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 4-Nitrophenol | U | | 0.274 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Pentachlorophenol | U | | 0.236 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| Phenol | U | | 0.353 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| 2,4,6-Trichlorophenol | U | | 0.282 | 8.78 | 20 | 06/13/2024 04:24 | WG2303704 |
| *(S) 2-Fluorophenol* | *80.1* | J7 | | *12.0-120* | | *06/13/2024 04:24* | WG2303704 |
| *(S) Phenol-d5* | *84.8* | J7 | | *10.0-120* | | *06/13/2024 04:24* | WG2303704 |
| *(S) Nitrobenzene-d5* | *0.000* | J7 | | *10.0-122* | | *06/13/2024 04:24* | WG2303704 |
| *(S) 2-Fluorobiphenyl* | *95.7* | J7 | | *15.0-120* | | *06/13/2024 04:24* | WG2303704 |
| *(S) 2,4,6-Tribromophenol* | *68.1* | J7 | | *10.0-127* | | *06/13/2024 04:24* | WG2303704 |
| *(S) p-Terphenyl-d14* | *100* | J7 | | *10.0-120* | | *06/13/2024 04:24* | WG2303704 |

**Sample Narrative:**

L1741416-36 WG2303704: Dilution due to matrix impact during extraction procedure. Surrogate failure due to matrix.

# QUALITY CONTROL SUMMARY

L1741416-01,02,03,04,05,06,12,13,14

## Method Blank (MB)

(MB) R4076430-1 06/01/24 11:02

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00200 | | | |

## L1741819-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1741819-12 06/01/24 11:02 • (DUP) R4076430-3 06/01/24 11:02

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 94.7 | 94.4 | 1 | 0.277 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076430-2 06/01/24 11:02

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4076426-1 06/01/24 10:49

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00500 | U | | |

## L1741416-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1741416-19 06/01/24 10:49 • (DUP) R4076426-3 06/01/24 10:49

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 72.0 | 68.4 | 1 | 5.07 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076426-2 06/01/24 10:49

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1741416-28,29,31,32,33,34,36

## Method Blank (MB)

(MB) R4076423-1 06/01/24 10:34

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1741416-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1741416-32 06/01/24 10:34 • (DUP) R4076423-3 06/01/24 10:34

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 83.7 | 84.1 | 1 | 0.470 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076423-2 06/01/24 10:34

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 49.9 | 99.8 | 90.0-110 | |

## Method Blank (MB)

(MB) R4079378-1 06/08/24 11:13

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1743816-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1743816-01 06/08/24 11:13 • (DUP) R4079378-3 06/08/24 11:13

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 89.4 | 89.7 | 1 | 0.389 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4079378-2 06/08/24 11:13

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 90.0-110 | |

## Method Blank (MB)

(MB) R4081614-1 06/13/24 07:19

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1745638-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1745638-02 06/13/24 07:19 • (DUP) R4081614-3 06/13/24 07:19

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 93.5 | 93.5 | 1 | 0.0579 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4081614-2 06/13/24 07:19

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 90.0-110 | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4077008-1 06/04/24 13:07

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4077008-2 06/04/24 13:09

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 3.01 | 100 | 80.0-120 | |

## L1741504-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741504-11 06/04/24 13:16 • (MS) R4077008-4 06/04/24 13:21 • (MSD) R4077008-5 06/04/24 13:23

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 2.98 | 3.02 | 99.2 | 101 | 1 | 75.0-125 | | | 1.65 | 20 |

# QUALITY CONTROL SUMMARY

L1741416-12,13,14,17,18,19

## Method Blank (MB)

(MB) R4076181-6 06/01/24 14:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4076181-7 06/01/24 14:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.483 | 96.7 | 80.0-120 | |

## L1741795-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741795-01 06/01/24 14:45 • (MS) R4076181-9 06/01/24 14:50 • (MSD) R4076181-10 06/01/24 14:52

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | U | 0.562 | 0.555 | 112 | 111 | 1 | 75.0-125 | | | 1.20 | 20 |

# QUALITY CONTROL SUMMARY

L1741416-29,32,33,34

## Method Blank (MB)

(MB) R4076361-1 06/02/24 21:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4076361-2 06/02/24 21:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.463 | 92.5 | 80.0-120 | |

## L1741265-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741265-18 06/02/24 21:07 • (MS) R4076361-4 06/02/24 21:19 • (MSD) R4076361-5 06/02/24 21:21

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | 0.0773 | 0.495 | 0.496 | 83.5 | 83.6 | 1 | 75.0-125 | | | 0.161 | 20 |

# QUALITY CONTROL SUMMARY

L1741416-22,23,24,27,28

## Method Blank (MB)

(MB) R4076363-1 06/02/24 23:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4076363-2 06/02/24 23:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.453 | 90.6 | 80.0-120 | |

## L1741568-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741568-04 06/02/24 23:29 • (MS) R4076363-4 06/02/24 23:48 • (MSD) R4076363-5 06/02/24 23:50

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.569 | 0.0218 | 0.502 | 0.495 | 84.3 | 83.2 | 1 | 75.0-125 | | | 1.25 | 20 |

## Method Blank (MB)

(MB) R4081812-1 06/14/24 09:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4081812-2 06/14/24 09:45

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.559 | 112 | 80.0-120 | |

## L1741416-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-20 06/14/24 09:48 • (MS) R4081812-4 06/14/24 09:53 • (MSD) R4081812-5 06/14/24 09:55

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.660 | 0.0600 | 0.715 | 0.688 | 99.2 | 95.1 | 1 | 75.0-125 | | | 3.83 | 20 |

## Method Blank (MB)

(MB) R4077415-1 06/04/24 23:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | 0.0484 | J | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | 0.196 | J | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | 1.30 | J | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077415-2 06/04/24 23:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 93.6 | 93.6 | 80.0-120 | |
| Arsenic | 100 | 90.8 | 90.8 | 80.0-120 | |
| Barium | 100 | 97.7 | 97.7 | 80.0-120 | |
| Beryllium | 100 | 94.5 | 94.5 | 80.0-120 | |
| Cadmium | 100 | 89.7 | 89.7 | 80.0-120 | |
| Chromium | 100 | 92.7 | 92.7 | 80.0-120 | |
| Cobalt | 100 | 87.9 | 87.9 | 80.0-120 | |
| Copper | 100 | 81.1 | 81.1 | 80.0-120 | |
| Lead | 100 | 89.8 | 89.8 | 80.0-120 | |
| Molybdenum | 100 | 95.5 | 95.5 | 80.0-120 | |
| Nickel | 100 | 87.5 | 87.5 | 80.0-120 | |
| Selenium | 100 | 87.9 | 87.9 | 80.0-120 | |
| Silver | 20.0 | 19.1 | 95.3 | 80.0-120 | |
| Thallium | 100 | 94.5 | 94.5 | 80.0-120 | |
| Vanadium | 100 | 90.5 | 90.5 | 80.0-120 | |
| Zinc | 100 | 88.3 | 88.3 | 80.0-120 | |

## L1741568-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741568-14 06/04/24 23:47 • (MS) R4077415-5 06/04/24 23:57 • (MSD) R4077415-6 06/05/24 00:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 122 | U | 83.5 | 87.0 | 68.2 | 71.1 | 1 | 75.0-125 | J6 | J6 | 4.13 | 20 |
| Arsenic | 122 | 1.05 | 105 | 111 | 84.6 | 89.9 | 1 | 75.0-125 | | | 6.00 | 20 |
| Barium | 122 | 34.6 | 141 | 145 | 86.5 | 90.6 | 1 | 75.0-125 | | | 3.49 | 20 |
| Cadmium | 122 | 0.0838 | 103 | 109 | 84.3 | 89.0 | 1 | 75.0-125 | | | 5.47 | 20 |
| Chromium | 122 | 7.30 | 116 | 121 | 88.7 | 93.2 | 1 | 75.0-125 | | | 4.57 | 20 |
| Cobalt | 122 | 2.69 | 105 | 111 | 83.7 | 88.8 | 1 | 75.0-125 | | | 5.73 | 20 |
| Copper | 122 | 4.10 | 104 | 110 | 81.5 | 86.8 | 1 | 75.0-125 | | | 6.08 | 20 |
| Lead | 122 | 11.1 | 115 | 120 | 84.8 | 89.4 | 1 | 75.0-125 | | | 4.80 | 20 |
| Molybdenum | 122 | 0.571 | 107 | 113 | 86.8 | 92.3 | 1 | 75.0-125 | | | 6.04 | 20 |
| Nickel | 122 | 5.44 | 108 | 114 | 83.7 | 88.5 | 1 | 75.0-125 | | | 5.37 | 20 |
| Selenium | 122 | 1.84 | 101 | 109 | 80.9 | 88.0 | 1 | 75.0-125 | | | 8.21 | 20 |
| Silver | 24.5 | 0.230 | 22.5 | 23.9 | 91.1 | 96.9 | 1 | 75.0-125 | | | 6.15 | 20 |
| Thallium | 122 | U | 107 | 113 | 87.3 | 92.4 | 1 | 75.0-125 | | | 5.65 | 20 |
| Vanadium | 122 | 17.0 | 126 | 133 | 89.2 | 95.0 | 1 | 75.0-125 | | | 5.52 | 20 |
| Zinc | 122 | 25.3 | 129 | 134 | 84.6 | 88.9 | 1 | 75.0-125 | | | 3.99 | 20 |

## Method Blank (MB)

(MB) R4079060-1 06/08/24 10:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4079060-2 06/08/24 10:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 96.1 | 96.1 | 80.0-120 | |
| Arsenic | 100 | 97.0 | 97.0 | 80.0-120 | |
| Barium | 100 | 101 | 101 | 80.0-120 | |
| Beryllium | 100 | 98.3 | 98.3 | 80.0-120 | |
| Cadmium | 100 | 96.1 | 96.1 | 80.0-120 | |
| Chromium | 100 | 102 | 102 | 80.0-120 | |
| Cobalt | 100 | 95.2 | 95.2 | 80.0-120 | |
| Copper | 100 | 99.8 | 99.8 | 80.0-120 | |
| Lead | 100 | 96.7 | 96.7 | 80.0-120 | |
| Molybdenum | 100 | 101 | 101 | 80.0-120 | |
| Nickel | 100 | 94.4 | 94.4 | 80.0-120 | |
| Selenium | 100 | 87.5 | 87.5 | 80.0-120 | |
| Silver | 20.0 | 19.8 | 99.0 | 80.0-120 | |
| Thallium | 100 | 99.2 | 99.2 | 80.0-120 | |
| Vanadium | 100 | 96.7 | 96.7 | 80.0-120 | |
| Zinc | 100 | 97.4 | 97.4 | 80.0-120 | |

## L1741900-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741900-19 06/08/24 10:06 • (MS) R4079060-5 06/08/24 10:11 • (MSD) R4079060-6 06/08/24 10:12

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 100 | 3.07 | 71.9 | 73.2 | 68.8 | 70.2 | 1 | 75.0-125 | J6 | J6 | 1.85 | 20 |
| Arsenic | 100 | 15.1 | 114 | 120 | 98.7 | 104 | 1 | 75.0-125 | | | 4.94 | 20 |
| Barium | 100 | 101 | 199 | 218 | 98.2 | 116 | 1 | 75.0-125 | | | 8.77 | 20 |
| Beryllium | 100 | 0.599 | 103 | 109 | 103 | 108 | 1 | 75.0-125 | | | 4.91 | 20 |
| Cadmium | 100 | 0.784 | 101 | 105 | 100 | 105 | 1 | 75.0-125 | | | 4.26 | 20 |
| Chromium | 100 | 14.4 | 119 | 123 | 105 | 109 | 1 | 75.0-125 | | | 3.22 | 20 |
| Cobalt | 100 | 5.52 | 106 | 111 | 100 | 105 | 1 | 75.0-125 | | | 4.95 | 20 |
| Copper | 100 | 158 | 211 | 221 | 53.2 | 63.3 | 1 | 75.0-125 | J6 | J6 | 4.69 | 20 |
| Lead | 100 | 188 | 280 | 212 | 91.7 | 23.6 | 1 | 75.0-125 | | J3 J6 | 27.7 | 20 |
| Molybdenum | 100 | 1.26 | 101 | 107 | 99.4 | 105 | 1 | 75.0-125 | | | 5.86 | 20 |
| Nickel | 100 | 13.1 | 112 | 120 | 98.9 | 107 | 1 | 75.0-125 | | | 6.61 | 20 |
| Selenium | 100 | U | 93.5 | 98.6 | 93.5 | 98.6 | 1 | 75.0-125 | | | 5.31 | 20 |
| Silver | 20.0 | 0.327 | 21.1 | 22.2 | 104 | 110 | 1 | 75.0-125 | | | 5.26 | 20 |
| Thallium | 100 | U | 92.6 | 97.9 | 92.6 | 97.9 | 1 | 75.0-125 | | | 5.62 | 20 |
| Vanadium | 100 | 10.2 | 112 | 118 | 102 | 107 | 1 | 75.0-125 | | | 5.08 | 20 |
| Zinc | 100 | 289 | 310 | 266 | 20.7 | 0.000 | 1 | 75.0-125 | J6 | J6 | 15.1 | 20 |

## Method Blank (MB)

(MB) R4077877-1 06/06/24 00:00

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | 0.139 | J | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077877-2 06/06/24 00:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 100 | 100 | 80.0-120 | |
| Arsenic | 100 | 101 | 101 | 80.0-120 | |
| Barium | 100 | 104 | 104 | 80.0-120 | |
| Beryllium | 100 | 104 | 104 | 80.0-120 | |
| Cadmium | 100 | 102 | 102 | 80.0-120 | |
| Chromium | 100 | 105 | 105 | 80.0-120 | |
| Cobalt | 100 | 96.2 | 96.2 | 80.0-120 | |
| Copper | 100 | 99.0 | 99.0 | 80.0-120 | |
| Lead | 100 | 103 | 103 | 80.0-120 | |
| Molybdenum | 100 | 105 | 105 | 80.0-120 | |
| Nickel | 100 | 102 | 102 | 80.0-120 | |
| Selenium | 100 | 95.7 | 95.7 | 80.0-120 | |
| Silver | 20.0 | 21.3 | 106 | 80.0-120 | |
| Thallium | 100 | 104 | 104 | 80.0-120 | |
| Vanadium | 100 | 103 | 103 | 80.0-120 | |
| Zinc | 100 | 103 | 103 | 80.0-120 | |

## L1741158-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741158-04 06/06/24 00:03 • (MS) R4077877-5 06/06/24 00:08 • (MSD) R4077877-6 06/06/24 00:10

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 115 | 2.72 | 71.5 | 72.2 | 59.7 | 60.4 | 1 | 75.0-125 | J6 | J6 | 1.05 | 20 |
| Arsenic | 115 | 4.66 | 131 | 129 | 109 | 108 | 1 | 75.0-125 | | | 1.17 | 20 |
| Barium | 115 | 78.0 | 211 | 208 | 116 | 113 | 1 | 75.0-125 | | | 1.78 | 20 |
| Beryllium | 115 | 0.632 | 133 | 133 | 115 | 115 | 1 | 75.0-125 | | | 0.342 | 20 |
| Cadmium | 115 | 0.476 | 128 | 127 | 111 | 110 | 1 | 75.0-125 | | | 0.767 | 20 |
| Chromium | 115 | 22.0 | 154 | 152 | 114 | 113 | 1 | 75.0-125 | | | 1.08 | 20 |
| Cobalt | 115 | 15.3 | 138 | 137 | 107 | 106 | 1 | 75.0-125 | | | 0.642 | 20 |
| Copper | 115 | 12.1 | 144 | 140 | 115 | 111 | 1 | 75.0-125 | | | 3.10 | 20 |
| Lead | 115 | 46.7 | 165 | 164 | 102 | 102 | 1 | 75.0-125 | | | 0.105 | 20 |
| Molybdenum | 115 | 1.08 | 128 | 127 | 110 | 110 | 1 | 75.0-125 | | | 0.660 | 20 |
| Nickel | 115 | 23.3 | 148 | 146 | 109 | 107 | 1 | 75.0-125 | | | 1.23 | 20 |
| Selenium | 115 | U | 120 | 119 | 104 | 103 | 1 | 75.0-125 | | | 0.963 | 20 |
| Silver | 23.0 | U | 25.3 | 25.1 | 110 | 109 | 1 | 75.0-125 | | | 1.05 | 20 |
| Thallium | 115 | 1.29 | 128 | 128 | 110 | 110 | 1 | 75.0-125 | | | 0.0418 | 20 |
| Vanadium | 115 | 30.6 | 157 | 156 | 110 | 109 | 1 | 75.0-125 | | | 0.945 | 20 |
| Zinc | 115 | 98.4 | 233 | 231 | 117 | 115 | 1 | 75.0-125 | | | 0.746 | 20 |

# QUALITY CONTROL SUMMARY

L1741416-22,23,24,27,28,29,32,33,34

## Method Blank (MB)

(MB) R4078986-1 06/07/24 18:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | 0.267 | J | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | 0.275 | J | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4078986-2 06/07/24 18:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 97.6 | 97.6 | 80.0-120 | |
| Arsenic | 100 | 94.3 | 94.3 | 80.0-120 | |
| Barium | 100 | 98.2 | 98.2 | 80.0-120 | |
| Beryllium | 100 | 106 | 106 | 80.0-120 | |
| Cadmium | 100 | 95.8 | 95.8 | 80.0-120 | |
| Chromium | 100 | 107 | 107 | 80.0-120 | |
| Cobalt | 100 | 96.6 | 96.6 | 80.0-120 | |
| Copper | 100 | 94.0 | 94.0 | 80.0-120 | |
| Lead | 100 | 97.2 | 97.2 | 80.0-120 | |
| Molybdenum | 100 | 101 | 101 | 80.0-120 | |
| Nickel | 100 | 96.5 | 96.5 | 80.0-120 | |
| Selenium | 100 | 94.6 | 94.6 | 80.0-120 | |
| Silver | 20.0 | 19.2 | 95.8 | 80.0-120 | |
| Thallium | 100 | 102 | 102 | 80.0-120 | |
| Vanadium | 100 | 109 | 109 | 80.0-120 | |
| Zinc | 100 | 91.8 | 91.8 | 80.0-120 | |

## L1741413-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741413-04 06/07/24 18:28 • (MS) R4078986-5 06/07/24 18:37 • (MSD) R4078986-6 06/07/24 18:40

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | | % | % | | % | | | % | % |
| Antimony | 105 | 1.56 | 33.5 | 30.8 | 30.4 | 27.8 | 1 | 75.0-125 | J6 | J6 | 8.48 | 20 |
| Arsenic | 105 | 7.69 | 105 | 105 | 92.4 | 92.7 | 1 | 75.0-125 | | | 0.339 | 20 |
| Barium | 105 | 171 | 267 | 275 | 91.3 | 99.4 | 1 | 75.0-125 | | | 3.16 | 20 |
| Beryllium | 105 | 1.29 | 108 | 108 | 102 | 102 | 1 | 75.0-125 | | | 0.130 | 20 |
| Cadmium | 105 | 0.324 | 100 | 99.1 | 95.4 | 94.2 | 1 | 75.0-125 | | | 1.24 | 20 |
| Chromium | 105 | 20.0 | 130 | 130 | 105 | 105 | 1 | 75.0-125 | | | 0.118 | 20 |
| Cobalt | 105 | 11.1 | 116 | 115 | 100 | 98.7 | 1 | 75.0-125 | | | 1.36 | 20 |
| Copper | 105 | 73.6 | 180 | 183 | 101 | 104 | 1 | 75.0-125 | | | 1.94 | 20 |
| Lead | 105 | 36.5 | 141 | 141 | 99.5 | 100 | 1 | 75.0-125 | | | 0.415 | 20 |
| Molybdenum | 105 | 0.316 | 95.0 | 93.6 | 90.3 | 89.0 | 1 | 75.0-125 | | | 1.46 | 20 |
| Nickel | 105 | 17.6 | 122 | 120 | 99.5 | 98.0 | 1 | 75.0-125 | | | 1.30 | 20 |
| Selenium | 105 | U | 97.1 | 96.3 | 92.6 | 91.8 | 1 | 75.0-125 | | | 0.840 | 20 |
| Silver | 21.0 | U | 20.9 | 20.8 | 99.5 | 99.1 | 1 | 75.0-125 | | | 0.417 | 20 |
| Thallium | 105 | U | 101 | 99.0 | 96.3 | 94.3 | 1 | 75.0-125 | | | 2.06 | 20 |
| Vanadium | 105 | 45.1 | 157 | 166 | 107 | 116 | 1 | 75.0-125 | | | 5.73 | 20 |
| Zinc | 105 | 86.4 | 174 | 177 | 83.9 | 86.3 | 1 | 75.0-125 | | | 1.42 | 20 |

## Method Blank (MB)

(MB) R4083679-12 06/19/24 09:42

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | 0.0656 | J | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4083679-13 06/19/24 09:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 97.8 | 97.8 | 80.0-120 | |
| Arsenic | 100 | 100 | 100 | 80.0-120 | |
| Barium | 100 | 104 | 104 | 80.0-120 | |
| Beryllium | 100 | 100 | 100 | 80.0-120 | |
| Cadmium | 100 | 98.9 | 98.9 | 80.0-120 | |
| Chromium | 100 | 105 | 105 | 80.0-120 | |
| Cobalt | 100 | 98.2 | 98.2 | 80.0-120 | |
| Copper | 100 | 104 | 104 | 80.0-120 | |
| Lead | 100 | 100 | 100 | 80.0-120 | |
| Molybdenum | 100 | 103 | 103 | 80.0-120 | |
| Nickel | 100 | 98.4 | 98.4 | 80.0-120 | |
| Selenium | 100 | 100 | 100 | 80.0-120 | |
| Silver | 20.0 | 22.1 | 110 | 80.0-120 | |
| Thallium | 100 | 104 | 104 | 80.0-120 | |
| Vanadium | 100 | 99.3 | 99.3 | 80.0-120 | |
| Zinc | 100 | 100 | 100 | 80.0-120 | |

## L1741416-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-20 06/19/24 09:46 • (MS) R4083679-16 06/19/24 09:51 • (MSD) R4083679-17 06/19/24 09:52

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 132 | 7.07 | 55.2 | 58.6 | 36.4 | 39.0 | 1 | 75.0-125 | J6 | J6 | 6.11 | 20 |
| Arsenic | 132 | 4.22 | 128 | 126 | 93.8 | 92.2 | 1 | 75.0-125 | | | 1.68 | 20 |
| Barium | 132 | 339 | 458 | 446 | 90.4 | 81.7 | 1 | 75.0-125 | | | 2.54 | 20 |
| Beryllium | 132 | 1.08 | 128 | 128 | 96.1 | 95.8 | 1 | 75.0-125 | | | 0.224 | 20 |
| Cadmium | 132 | 0.378 | 124 | 124 | 93.9 | 93.6 | 1 | 75.0-125 | | | 0.326 | 20 |
| Chromium | 132 | 87.5 | 215 | 210 | 96.4 | 92.7 | 1 | 75.0-125 | | | 2.33 | 20 |
| Cobalt | 132 | 9.85 | 142 | 143 | 99.8 | 101 | 1 | 75.0-125 | | | 1.20 | 20 |
| Copper | 132 | 41.4 | 171 | 174 | 98.1 | 100 | 1 | 75.0-125 | | | 1.77 | 20 |
| Lead | 132 | 63.9 | 248 | 331 | 139 | 202 | 1 | 75.0-125 | J5 | J3 J5 | 28.6 | 20 |
| Molybdenum | 132 | U | 115 | 115 | 87.2 | 87.4 | 1 | 75.0-125 | | | 0.258 | 20 |
| Nickel | 132 | 57.2 | 176 | 170 | 90.2 | 85.2 | 1 | 75.0-125 | | | 3.84 | 20 |
| Selenium | 132 | U | 136 | 138 | 103 | 105 | 1 | 75.0-125 | | | 1.36 | 20 |
| Silver | 26.4 | U | 29.8 | 30.7 | 113 | 116 | 1 | 75.0-125 | | | 3.17 | 20 |
| Thallium | 132 | U | 121 | 120 | 91.3 | 91.2 | 1 | 75.0-125 | | | 0.0342 | 20 |
| Vanadium | 132 | 87.5 | 214 | 210 | 96.2 | 92.7 | 1 | 75.0-125 | | | 2.15 | 20 |
| Zinc | 132 | 75.9 | 198 | 195 | 92.5 | 90.4 | 1 | 75.0-125 | | | 1.36 | 20 |

# QUALITY CONTROL SUMMARY

L1741416-15

## Method Blank (MB)

(MB) R4088878-1 07/01/24 19:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Lead | U | | 0.208 | 0.500 |

## Laboratory Control Sample (LCS)

(LCS) R4088878-2 07/01/24 19:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Lead | 100 | 92.2 | 92.2 | 80.0-120 | |

## L1741921-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-16 07/01/24 19:55 • (MS) R4088878-5 07/01/24 20:00 • (MSD) R4088878-6 07/01/24 20:02

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 123 | 31.9 | 127 | 133 | 76.6 | 82.2 | 1 | 75.0-125 | | | 5.30 | 20 |

## Method Blank (MB)

(MB) R4089191-7 07/02/24 14:16

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Method Blank (MB)

(MB) R4089371-1 07/02/24 18:20

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Beryllium | U | | 0.190 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4089191-8 07/02/24 14:20

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 52.0 | 104 | 80.0-120 | |
| Arsenic | 50.0 | 49.2 | 98.3 | 80.0-120 | |
| Barium | 50.0 | 46.4 | 92.7 | 80.0-120 | |
| Cadmium | 50.0 | 51.2 | 102 | 80.0-120 | |
| Chromium | 50.0 | 50.1 | 100 | 80.0-120 | |
| Copper | 50.0 | 50.6 | 101 | 80.0-120 | |
| Cobalt | 50.0 | 51.0 | 102 | 80.0-120 | |
| Lead | 50.0 | 48.2 | 96.4 | 80.0-120 | |
| Molybdenum | 50.0 | 48.2 | 96.4 | 80.0-120 | |
| Nickel | 50.0 | 51.3 | 103 | 80.0-120 | |
| Selenium | 50.0 | 49.4 | 98.9 | 80.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4089191-8 07/02/24 14:20

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 50.0 | 49.1 | 98.3 | 80.0-120 | |
| Vanadium | 50.0 | 48.7 | 97.5 | 80.0-120 | |
| Zinc | 50.0 | 46.9 | 93.7 | 80.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4089371-2 07/02/24 18:23

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Beryllium | 50.0 | 48.0 | 96.0 | 80.0-120 | |
| Thallium | 50.0 | 47.5 | 95.0 | 80.0-120 | |

## L1745528-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1745528-02 07/02/24 14:28 • (MS) R4089191-10 07/02/24 14:35 • (MSD) R4089191-11 07/02/24 14:38

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 49.6 | 48.4 | 99.2 | 96.8 | 1 | 75.0-125 | | | 2.47 | 20 |
| Arsenic | 50.0 | 41.0 | 87.2 | 89.8 | 92.4 | 97.5 | 1 | 75.0-125 | | | 2.91 | 20 |
| Barium | 50.0 | 135 | 195 | 212 | 121 | 155 | 1 | 75.0-125 | | J5 | 8.46 | 20 |
| Cadmium | 50.0 | 0.640 | 52.2 | 52.9 | 103 | 104 | 1 | 75.0-125 | | | 1.36 | 20 |
| Chromium | 50.0 | 12.3 | 60.4 | 61.7 | 96.1 | 98.7 | 1 | 75.0-125 | | | 2.12 | 20 |
| Copper | 50.0 | 9.75 | 59.9 | 62.2 | 100 | 105 | 1 | 75.0-125 | | | 3.80 | 20 |
| Cobalt | 50.0 | 9.38 | 57.4 | 59.4 | 96.0 | 100 | 1 | 75.0-125 | | | 3.35 | 20 |
| Lead | 50.0 | 7.74 | 55.4 | 58.3 | 95.3 | 101 | 1 | 75.0-125 | | | 5.16 | 20 |
| Molybdenum | 50.0 | 2.05 | 52.5 | 53.8 | 101 | 103 | 1 | 75.0-125 | | | 2.42 | 20 |
| Nickel | 50.0 | 20.3 | 68.0 | 68.7 | 95.4 | 96.9 | 1 | 75.0-125 | | | 1.10 | 20 |
| Selenium | 50.0 | 0.438 | 50.3 | 50.8 | 99.7 | 101 | 1 | 75.0-125 | | | 0.993 | 20 |
| Silver | 50.0 | U | 47.8 | 48.1 | 95.5 | 96.3 | 1 | 75.0-125 | | | 0.811 | 20 |
| Vanadium | 50.0 | 15.9 | 63.5 | 64.1 | 95.2 | 96.4 | 1 | 75.0-125 | | | 0.941 | 20 |
| Zinc | 50.0 | 84.6 | 129 | 131 | 88.3 | 93.1 | 1 | 75.0-125 | | | 1.86 | 20 |

## L1745528-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1745528-02 07/02/24 18:26 • (MS) R4089371-4 07/02/24 18:33 • (MSD) R4089371-5 07/02/24 18:36

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium | 50.0 | 0.510 | 51.0 | 50.5 | 101 | 100 | 1 | 75.0-125 | | | 0.968 | 20 |
| Thallium | 50.0 | 0.249 | 48.9 | 46.8 | 97.3 | 93.1 | 1 | 75.0-125 | | | 4.38 | 20 |

## Method Blank (MB)

(MB) R4076889-3 06/03/24 12:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.69 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.5* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076889-1 06/03/24 10:43 • (LCSD) R4076889-2 06/03/24 11:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.62 | 5.55 | 112 | 111 | 72.0-125 | | | 1.25 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *100* | *102* | *77.0-120* | | | | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4078322-2 06/04/24 00:19

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 2.03 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.1* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078322-1 06/03/24 22:36

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.26 | 85.2 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## Method Blank (MB)

(MB) R4078024-2 06/05/24 00:29

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 0.992 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078024-1 06/04/24 22:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 6.00 | 120 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *116* | *77.0-120* | |

## L1741491-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741491-05 06/05/24 05:06 • (MS) R4078024-3 06/05/24 08:33 • (MSD) R4078024-4 06/05/24 08:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 216 | 5.45 | 232 | 227 | 105 | 103 | 25.8 | 10.0-141 | | | 2.18 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *116* | *115* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4078760-1 06/06/24 18:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 2.65 | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *89.0* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078760-2 06/06/24 18:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.21 | 84.2 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *96.1* | *77.0-120* | |

## Method Blank (MB)

(MB) R4079615-2 06/07/24 17:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4079615-1 06/07/24 15:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.20 | 84.0 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## Method Blank (MB)

(MB) R4082448-3 06/16/24 10:56

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.28 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *112* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4082448-1 06/16/24 09:51 • (LCSD) R4082448-2 06/16/24 10:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.13 | 4.70 | 103 | 94.0 | 72.0-125 | | | 8.75 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *109* | *107* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4083243-2 06/17/24 02:39

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 2.36 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.1* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4083243-1 06/17/24 01:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.70 | 114 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *94.8* | *77.0-120* | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4083861-2 06/18/24 16:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.30 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *120* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4083861-1 06/18/24 15:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.87 | 117 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *117* | *77.0-120* | |

## Method Blank (MB)

(MB) R4078295-2 06/05/24 11:14

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.8* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078295-1 06/05/24 10:35

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 4620 | 92.4 | 71.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *106* | *78.0-120* | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4077468-3 06/04/24 15:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4077468-3 06/04/24 15:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077468-1 06/04/24 14:02 • (LCSD) R4077468-2 06/04/24 14:21

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.493 | 0.490 | 78.9 | 78.4 | 10.0-160 | | | 0.610 | 31 |
| Acrylonitrile | 0.625 | 0.671 | 0.675 | 107 | 108 | 45.0-153 | | | 0.594 | 22 |
| Benzene | 0.125 | 0.113 | 0.113 | 90.4 | 90.4 | 70.0-123 | | | 0.000 | 20 |
| Bromobenzene | 0.125 | 0.116 | 0.116 | 92.8 | 92.8 | 73.0-121 | | | 0.000 | 20 |
| Bromodichloromethane | 0.125 | 0.126 | 0.125 | 101 | 100 | 73.0-121 | | | 0.797 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077468-1 06/04/24 14:02 • (LCSD) R4077468-2 06/04/24 14:21

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.118 | 0.119 | 94.4 | 95.2 | 64.0-132 | | | 0.844 | 20 |
| Bromomethane | 0.125 | 0.105 | 0.105 | 84.0 | 84.0 | 56.0-147 | | | 0.000 | 20 |
| n-Butylbenzene | 0.125 | 0.101 | 0.104 | 80.8 | 83.2 | 68.0-135 | | | 2.93 | 20 |
| sec-Butylbenzene | 0.125 | 0.121 | 0.127 | 96.8 | 102 | 74.0-130 | | | 4.84 | 20 |
| tert-Butylbenzene | 0.125 | 0.117 | 0.124 | 93.6 | 99.2 | 75.0-127 | | | 5.81 | 20 |
| Carbon tetrachloride | 0.125 | 0.127 | 0.130 | 102 | 104 | 66.0-128 | | | 2.33 | 20 |
| Chlorobenzene | 0.125 | 0.116 | 0.120 | 92.8 | 96.0 | 76.0-128 | | | 3.39 | 20 |
| Chlorodibromomethane | 0.125 | 0.120 | 0.133 | 96.0 | 106 | 74.0-127 | | | 10.3 | 20 |
| Chloroethane | 0.125 | 0.115 | 0.116 | 92.0 | 92.8 | 61.0-134 | | | 0.866 | 20 |
| Chloroform | 0.125 | 0.122 | 0.122 | 97.6 | 97.6 | 72.0-123 | | | 0.000 | 20 |
| Chloromethane | 0.125 | 0.116 | 0.110 | 92.8 | 88.0 | 51.0-138 | | | 5.31 | 20 |
| 2-Chlorotoluene | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 75.0-124 | | | 1.65 | 20 |
| 4-Chlorotoluene | 0.125 | 0.115 | 0.113 | 92.0 | 90.4 | 75.0-124 | | | 1.75 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.111 | 0.108 | 88.8 | 86.4 | 59.0-130 | | | 2.74 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.131 | 0.129 | 105 | 103 | 74.0-128 | | | 1.54 | 20 |
| Dibromomethane | 0.125 | 0.128 | 0.125 | 102 | 100 | 75.0-122 | | | 2.37 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.120 | 0.120 | 96.0 | 96.0 | 76.0-124 | | | 0.000 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.116 | 0.116 | 92.8 | 92.8 | 76.0-125 | | | 0.000 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.113 | 0.117 | 90.4 | 93.6 | 77.0-121 | | | 3.48 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.136 | 0.137 | 109 | 110 | 43.0-156 | | | 0.733 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.122 | 0.123 | 97.6 | 98.4 | 70.0-127 | | | 0.816 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.112 | 0.118 | 89.6 | 94.4 | 65.0-131 | | | 5.22 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.128 | 0.128 | 102 | 102 | 65.0-131 | | | 0.000 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.120 | 0.115 | 96.0 | 92.0 | 73.0-125 | | | 4.26 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.118 | 0.118 | 94.4 | 94.4 | 71.0-125 | | | 0.000 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.127 | 0.122 | 102 | 97.6 | 74.0-125 | | | 4.02 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.128 | 0.127 | 102 | 102 | 73.0-125 | | | 0.784 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.128 | 0.131 | 102 | 105 | 80.0-125 | | | 2.32 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.123 | 0.123 | 98.4 | 98.4 | 76.0-127 | | | 0.000 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.119 | 0.119 | 95.2 | 95.2 | 73.0-127 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.0913 | 0.0870 | 73.0 | 69.6 | 59.0-135 | | | 4.82 | 20 |
| Di-isopropyl ether | 0.125 | 0.130 | 0.129 | 104 | 103 | 60.0-136 | | | 0.772 | 20 |
| Ethylbenzene | 0.125 | 0.120 | 0.123 | 96.0 | 98.4 | 74.0-126 | | | 2.47 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.104 | 0.116 | 83.2 | 92.8 | 57.0-150 | | | 10.9 | 20 |
| Isopropylbenzene | 0.125 | 0.124 | 0.130 | 99.2 | 104 | 72.0-127 | | | 4.72 | 20 |
| p-Isopropyltoluene | 0.125 | 0.121 | 0.125 | 96.8 | 100 | 72.0-133 | | | 3.25 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.586 | 0.601 | 93.8 | 96.2 | 30.0-160 | | | 2.53 | 24 |
| Methylene Chloride | 0.125 | 0.125 | 0.123 | 100 | 98.4 | 68.0-123 | | | 1.61 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.678 | 0.690 | 108 | 110 | 56.0-143 | | | 1.75 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.115 | 0.115 | 92.0 | 92.0 | 66.0-132 | | | 0.000 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077468-1 06/04/24 14:02 • (LCSD) R4077468-2 06/04/24 14:21

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.103 | 0.107 | 82.4 | 85.6 | 59.0-130 | | | 3.81 | 20 |
| n-Propylbenzene | 0.125 | 0.117 | 0.121 | 93.6 | 96.8 | 74.0-126 | | | 3.36 | 20 |
| Styrene | 0.125 | 0.128 | 0.122 | 102 | 97.6 | 72.0-127 | | | 4.80 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.130 | 0.131 | 104 | 105 | 74.0-129 | | | 0.766 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.121 | 0.123 | 96.8 | 98.4 | 68.0-128 | | | 1.64 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.126 | 0.124 | 101 | 99.2 | 61.0-139 | | | 1.60 | 20 |
| Tetrachloroethene | 0.125 | 0.122 | 0.124 | 97.6 | 99.2 | 70.0-136 | | | 1.63 | 20 |
| Toluene | 0.125 | 0.118 | 0.119 | 94.4 | 95.2 | 75.0-121 | | | 0.844 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.111 | 0.117 | 88.8 | 93.6 | 59.0-139 | | | 5.26 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.104 | 0.112 | 83.2 | 89.6 | 62.0-137 | | | 7.41 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.129 | 0.131 | 103 | 105 | 69.0-126 | | | 1.54 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.135 | 0.128 | 108 | 102 | 78.0-123 | | | 5.32 | 20 |
| Trichloroethene | 0.125 | 0.130 | 0.130 | 104 | 104 | 76.0-126 | | | 0.000 | 20 |
| Trichlorofluoromethane | 0.125 | 0.113 | 0.116 | 90.4 | 92.8 | 61.0-142 | | | 2.62 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.117 | 0.114 | 93.6 | 91.2 | 67.0-129 | | | 2.60 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.124 | 0.123 | 99.2 | 98.4 | 70.0-126 | | | 0.810 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.121 | 0.125 | 96.8 | 100 | 74.0-124 | | | 3.25 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.123 | 0.122 | 98.4 | 97.6 | 73.0-127 | | | 0.816 | 20 |
| Vinyl chloride | 0.125 | 0.126 | 0.123 | 101 | 98.4 | 63.0-134 | | | 2.41 | 20 |
| Xylenes, Total | 0.375 | 0.375 | 0.392 | 100 | 105 | 72.0-127 | | | 4.43 | 20 |
| *(S) Toluene-d8* | | | | *105* | *108* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *107* | *108* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *104* | *105* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4078242-2 06/05/24 04:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4078242-2 06/05/24 04:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *98.1* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R4078242-1 06/05/24 02:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.773 | 124 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.903 | 144 | 45.0-153 | |
| Benzene | 0.125 | 0.107 | 85.6 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.111 | 88.8 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.118 | 94.4 | 73.0-121 | |

## Laboratory Control Sample (LCS)

(LCS) R4078242-1 06/05/24 02:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.121 | 96.8 | 64.0-132 | |
| Bromomethane | 0.125 | 0.106 | 84.8 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.107 | 85.6 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.123 | 98.4 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.122 | 97.6 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.126 | 101 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.117 | 93.6 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.119 | 95.2 | 74.0-127 | |
| Chloroethane | 0.125 | 0.114 | 91.2 | 61.0-134 | |
| Chloroform | 0.125 | 0.110 | 88.0 | 72.0-123 | |
| Chloromethane | 0.125 | 0.0993 | 79.4 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.128 | 102 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.119 | 95.2 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.139 | 111 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.126 | 101 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.110 | 88.0 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.120 | 96.0 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.117 | 93.6 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.118 | 94.4 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.114 | 91.2 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.119 | 95.2 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.105 | 84.0 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.115 | 92.0 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.116 | 92.8 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.112 | 89.6 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.111 | 88.8 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.119 | 95.2 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.120 | 96.0 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.121 | 96.8 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.125 | 100 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.131 | 105 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.116 | 92.8 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.121 | 96.8 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.108 | 86.4 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.122 | 97.6 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.118 | 94.4 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.939 | 150 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.109 | 87.2 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.742 | 119 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.116 | 92.8 | 66.0-132 | |

## Laboratory Control Sample (LCS)

(LCS) R4078242-1 06/05/24 02:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.114 | 91.2 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.120 | 96.0 | 74.0-126 | |
| Styrene | 0.125 | 0.113 | 90.4 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.116 | 92.8 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.123 | 98.4 | 68.0-128 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.124 | 99.2 | 61.0-139 | |
| Tetrachloroethene | 0.125 | 0.122 | 97.6 | 70.0-136 | |
| Toluene | 0.125 | 0.113 | 90.4 | 75.0-121 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.123 | 98.4 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.115 | 92.0 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.127 | 102 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.120 | 96.0 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.118 | 94.4 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.138 | 110 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.126 | 101 | 67.0-129 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.114 | 91.2 | 70.0-126 | |
| 1,2,3-Trimethylbenzene | 0.125 | 0.115 | 92.0 | 74.0-124 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.116 | 92.8 | 73.0-127 | |
| Vinyl chloride | 0.125 | 0.105 | 84.0 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.360 | 96.0 | 72.0-127 | |
| *(S) Toluene-d8* | | | *101* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *102* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *101* | *70.0-130* | |

## Method Blank (MB)

(MB) R4078685-3 06/06/24 22:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *94.1* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078685-1 06/06/24 20:43 • (LCSD) R4078685-2 06/06/24 21:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.920 | 0.796 | 147 | 127 | 10.0-160 | | | 14.5 | 31 |
| Methylene Chloride | 0.125 | 0.104 | 0.120 | 83.2 | 96.0 | 68.0-123 | | | 14.3 | 20 |
| *(S) Toluene-d8* | | | | *98.6* | *97.8* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *98.9* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *100* | *100* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4078943-3 06/06/24 21:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Chloroethane | U | | 0.00170 | 0.00500 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *92.9* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078943-1 06/06/24 20:08 • (LCSD) R4078943-2 06/06/24 20:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.125 | 0.115 | 0.111 | 92.0 | 88.8 | 61.0-134 | | | 3.54 | 20 |
| Ethylbenzene | 0.125 | 0.116 | 0.117 | 92.8 | 93.6 | 74.0-126 | | | 0.858 | 20 |
| *(S) Toluene-d8* | | | | *109* | *108* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.8* | *98.2* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *101* | *100* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4080721-3 06/11/24 10:46

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4080721-3 06/11/24 10:46

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *96.6* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *96.8* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *81.3* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080721-1 06/11/24 08:56 • (LCSD) R4080721-2 06/11/24 09:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.802 | 0.841 | 128 | 135 | 10.0-160 | | | 4.75 | 31 |
| Acrylonitrile | 0.625 | 0.619 | 0.651 | 99.0 | 104 | 45.0-153 | | | 5.04 | 22 |
| Benzene | 0.125 | 0.125 | 0.133 | 100 | 106 | 70.0-123 | | | 6.20 | 20 |
| Bromobenzene | 0.125 | 0.122 | 0.128 | 97.6 | 102 | 73.0-121 | | | 4.80 | 20 |
| Bromodichloromethane | 0.125 | 0.115 | 0.130 | 92.0 | 104 | 73.0-121 | | | 12.2 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080721-1 06/11/24 08:56 • (LCSD) R4080721-2 06/11/24 09:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.111 | 0.120 | 88.8 | 96.0 | 64.0-132 | | | 7.79 | 20 |
| Bromomethane | 0.125 | 0.0933 | 0.0926 | 74.6 | 74.1 | 56.0-147 | | | 0.753 | 20 |
| n-Butylbenzene | 0.125 | 0.0952 | 0.110 | 76.2 | 88.0 | 68.0-135 | | | 14.4 | 20 |
| sec-Butylbenzene | 0.125 | 0.129 | 0.135 | 103 | 108 | 74.0-130 | | | 4.55 | 20 |
| tert-Butylbenzene | 0.125 | 0.0944 | 0.0990 | 75.5 | 79.2 | 75.0-127 | | | 4.76 | 20 |
| Carbon tetrachloride | 0.125 | 0.126 | 0.135 | 101 | 108 | 66.0-128 | | | 6.90 | 20 |
| Chlorobenzene | 0.125 | 0.126 | 0.133 | 101 | 106 | 76.0-128 | | | 5.41 | 20 |
| Chlorodibromomethane | 0.125 | 0.104 | 0.112 | 83.2 | 89.6 | 74.0-127 | | | 7.41 | 20 |
| Chloroethane | 0.125 | 0.0933 | 0.107 | 74.6 | 85.6 | 61.0-134 | | | 13.7 | 20 |
| Chloroform | 0.125 | 0.122 | 0.124 | 97.6 | 99.2 | 72.0-123 | | | 1.63 | 20 |
| Chloromethane | 0.125 | 0.0999 | 0.114 | 79.9 | 91.2 | 51.0-138 | | | 13.2 | 20 |
| 2-Chlorotoluene | 0.125 | 0.124 | 0.111 | 99.2 | 88.8 | 75.0-124 | | | 11.1 | 20 |
| 4-Chlorotoluene | 0.125 | 0.118 | 0.127 | 94.4 | 102 | 75.0-124 | | | 7.35 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.104 | 0.107 | 83.2 | 85.6 | 59.0-130 | | | 2.84 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.108 | 0.129 | 86.4 | 103 | 74.0-128 | | | 17.7 | 20 |
| Dibromomethane | 0.125 | 0.119 | 0.135 | 95.2 | 108 | 75.0-122 | | | 12.6 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.116 | 0.123 | 92.8 | 98.4 | 76.0-124 | | | 5.86 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.119 | 0.128 | 95.2 | 102 | 76.0-125 | | | 7.29 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.110 | 0.125 | 88.0 | 100 | 77.0-121 | | | 12.8 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.145 | 0.143 | 116 | 114 | 43.0-156 | | | 1.39 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.130 | 0.136 | 104 | 109 | 70.0-127 | | | 4.51 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.103 | 0.116 | 82.4 | 92.8 | 65.0-131 | | | 11.9 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.133 | 0.137 | 106 | 110 | 65.0-131 | | | 2.96 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.125 | 0.131 | 100 | 105 | 73.0-125 | | | 4.69 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.134 | 0.144 | 107 | 115 | 71.0-125 | | | 7.19 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.119 | 0.127 | 95.2 | 102 | 74.0-125 | | | 6.50 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.124 | 0.136 | 99.2 | 109 | 73.0-125 | | | 9.23 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.123 | 0.136 | 98.4 | 109 | 80.0-125 | | | 10.0 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.122 | 0.135 | 97.6 | 108 | 76.0-127 | | | 10.1 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.101 | 0.110 | 80.8 | 88.0 | 73.0-127 | | | 8.53 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.130 | 0.140 | 104 | 112 | 59.0-135 | | | 7.41 | 20 |
| Di-isopropyl ether | 0.125 | 0.121 | 0.127 | 96.8 | 102 | 60.0-136 | | | 4.84 | 20 |
| Ethylbenzene | 0.125 | 0.120 | 0.126 | 96.0 | 101 | 74.0-126 | | | 4.88 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.0975 | 0.108 | 78.0 | 86.4 | 57.0-150 | | | 10.2 | 20 |
| Isopropylbenzene | 0.125 | 0.114 | 0.122 | 91.2 | 97.6 | 72.0-127 | | | 6.78 | 20 |
| p-Isopropyltoluene | 0.125 | 0.0951 | 0.102 | 76.1 | 81.6 | 72.0-133 | | | 7.00 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.676 | 0.755 | 108 | 121 | 30.0-160 | | | 11.0 | 24 |
| Methylene Chloride | 0.125 | 0.128 | 0.134 | 102 | 107 | 68.0-123 | | | 4.58 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.571 | 0.602 | 91.4 | 96.3 | 56.0-143 | | | 5.29 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.121 | 0.127 | 96.8 | 102 | 66.0-132 | | | 4.84 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080721-1 06/11/24 08:56 • (LCSD) R4080721-2 06/11/24 09:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.104 | 0.103 | 83.2 | 82.4 | 59.0-130 | | | 0.966 | 20 |
| n-Propylbenzene | 0.125 | 0.120 | 0.123 | 96.0 | 98.4 | 74.0-126 | | | 2.47 | 20 |
| Styrene | 0.125 | 0.118 | 0.128 | 94.4 | 102 | 72.0-127 | | | 8.13 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.113 | 0.115 | 90.4 | 92.0 | 74.0-129 | | | 1.75 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.122 | 0.124 | 97.6 | 99.2 | 68.0-128 | | | 1.63 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.137 | 0.144 | 110 | 115 | 61.0-139 | | | 4.98 | 20 |
| Tetrachloroethene | 0.125 | 0.114 | 0.123 | 91.2 | 98.4 | 70.0-136 | | | 7.59 | 20 |
| Toluene | 0.125 | 0.113 | 0.120 | 90.4 | 96.0 | 75.0-121 | | | 6.01 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.0987 | 0.109 | 79.0 | 87.2 | 59.0-139 | | | 9.92 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.103 | 0.110 | 82.4 | 88.0 | 62.0-137 | | | 6.57 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.127 | 0.131 | 102 | 105 | 69.0-126 | | | 3.10 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.114 | 0.122 | 91.2 | 97.6 | 78.0-123 | | | 6.78 | 20 |
| Trichloroethene | 0.125 | 0.119 | 0.129 | 95.2 | 103 | 76.0-126 | | | 8.06 | 20 |
| Trichlorofluoromethane | 0.125 | 0.117 | 0.127 | 93.6 | 102 | 61.0-142 | | | 8.20 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.117 | 0.111 | 93.6 | 88.8 | 67.0-129 | | | 5.26 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.101 | 0.104 | 80.8 | 83.2 | 70.0-126 | | | 2.93 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.112 | 0.111 | 89.6 | 88.8 | 74.0-124 | | | 0.897 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.108 | 0.111 | 86.4 | 88.8 | 73.0-127 | | | 2.74 | 20 |
| Vinyl chloride | 0.125 | 0.107 | 0.0908 | 85.6 | 72.6 | 63.0-134 | | | 16.4 | 20 |
| Xylenes, Total | 0.375 | 0.350 | 0.370 | 93.3 | 98.7 | 72.0-127 | | | 5.56 | 20 |
| *(S) Toluene-d8* | | | | *94.2* | *93.5* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *96.9* | *101* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *90.6* | *89.9* | *70.0-130* | | | | |

## L1743427-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743427-04 06/11/24 18:19 • (MS) R4080721-4 06/11/24 19:26 • (MSD) R4080721-5 06/11/24 19:48

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 50.0 | U | 60.1 | 60.9 | 120 | 122 | 80 | 10.0-160 | | | 1.32 | 40 |
| Acrylonitrile | 50.0 | U | 53.1 | 49.1 | 106 | 98.2 | 80 | 10.0-160 | | | 7.83 | 40 |
| Benzene | 10.0 | 0.126 | 11.4 | 10.5 | 113 | 104 | 80 | 10.0-149 | | | 8.22 | 37 |
| Bromobenzene | 10.0 | U | 14.6 | 10.5 | 146 | 105 | 80 | 10.0-156 | | | 32.7 | 38 |
| Bromodichloromethane | 10.0 | U | 10.9 | 10.6 | 109 | 106 | 80 | 10.0-143 | | | 2.79 | 37 |
| Bromoform | 10.0 | U | 9.54 | 9.02 | 95.4 | 90.2 | 80 | 10.0-146 | | | 5.60 | 36 |
| Bromomethane | 10.0 | U | 6.83 | 5.70 | 68.3 | 57.0 | 80 | 10.0-149 | | | 18.0 | 38 |
| n-Butylbenzene | 10.0 | 3.99 | 95.2 | 86.6 | 912 | 826 | 80 | 10.0-160 | J5 | J5 | 9.46 | 40 |
| sec-Butylbenzene | 10.0 | 4.07 | 26.1 | 20.3 | 220 | 162 | 80 | 10.0-159 | J5 | J5 | 25.0 | 39 |
| tert-Butylbenzene | 10.0 | U | 16.0 | 13.0 | 160 | 130 | 80 | 10.0-156 | J5 | | 20.7 | 39 |

## L1743427-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743427-04 06/11/24 18:19 • (MS) R4080721-4 06/11/24 19:26 • (MSD) R4080721-5 06/11/24 19:48

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 10.0 | U | 11.3 | 10.5 | 113 | 105 | 80 | 10.0-145 | | | 7.34 | 37 |
| Chlorobenzene | 10.0 | U | 11.4 | 11.1 | 114 | 111 | 80 | 10.0-152 | | | 2.67 | 39 |
| Chlorodibromomethane | 10.0 | U | 8.59 | 8.93 | 85.9 | 89.3 | 80 | 10.0-146 | | | 3.88 | 37 |
| Chloroethane | 10.0 | U | 7.73 | 6.09 | 77.3 | 60.9 | 80 | 10.0-146 | | | 23.7 | 40 |
| Chloroform | 10.0 | U | 10.7 | 10.1 | 107 | 101 | 80 | 10.0-146 | | | 5.77 | 37 |
| Chloromethane | 10.0 | U | 9.72 | 8.69 | 97.2 | 86.9 | 80 | 10.0-159 | | | 11.2 | 37 |
| 2-Chlorotoluene | 10.0 | U | 13.6 | 9.77 | 136 | 97.7 | 80 | 10.0-159 | | | 32.8 | 38 |
| 4-Chlorotoluene | 10.0 | U | 14.5 | 10.8 | 145 | 108 | 80 | 10.0-155 | | | 29.2 | 39 |
| 1,2-Dibromo-3-Chloropropane | 10.0 | U | 9.29 | 9.36 | 92.9 | 93.6 | 80 | 10.0-151 | | | 0.751 | 39 |
| 1,2-Dibromoethane | 10.0 | U | 9.56 | 10.2 | 95.6 | 102 | 80 | 10.0-148 | | | 6.48 | 34 |
| Dibromomethane | 10.0 | U | 11.1 | 11.4 | 111 | 114 | 80 | 10.0-147 | | | 2.67 | 35 |
| 1,2-Dichlorobenzene | 10.0 | U | 13.2 | 10.7 | 132 | 107 | 80 | 10.0-155 | | | 20.9 | 37 |
| 1,3-Dichlorobenzene | 10.0 | U | 12.1 | 10.7 | 121 | 107 | 80 | 10.0-153 | | | 12.3 | 38 |
| 1,4-Dichlorobenzene | 10.0 | U | 10.3 | 10.4 | 103 | 104 | 80 | 10.0-151 | | | 0.966 | 38 |
| Dichlorodifluoromethane | 10.0 | U | 12.1 | 9.70 | 121 | 97.0 | 80 | 10.0-160 | | | 22.0 | 35 |
| 1,1-Dichloroethane | 10.0 | U | 11.5 | 10.5 | 115 | 105 | 80 | 10.0-147 | | | 9.09 | 37 |
| 1,2-Dichloroethane | 10.0 | U | 9.56 | 8.85 | 95.6 | 88.5 | 80 | 10.0-148 | | | 7.71 | 35 |
| 1,1-Dichloroethene | 10.0 | U | 11.1 | 7.67 | 111 | 76.7 | 80 | 10.0-155 | | | 36.5 | 37 |
| cis-1,2-Dichloroethene | 10.0 | U | 10.5 | 9.93 | 105 | 99.3 | 80 | 10.0-149 | | | 5.58 | 37 |
| trans-1,2-Dichloroethene | 10.0 | U | 11.0 | 11.1 | 110 | 111 | 80 | 10.0-150 | | | 0.905 | 37 |
| 1,2-Dichloropropane | 10.0 | U | 11.6 | 11.3 | 116 | 113 | 80 | 10.0-148 | | | 2.62 | 37 |
| 1,1-Dichloropropene | 10.0 | U | 11.7 | 11.4 | 117 | 114 | 80 | 10.0-153 | | | 2.60 | 35 |
| 1,3-Dichloropropane | 10.0 | U | 11.0 | 10.5 | 110 | 105 | 80 | 10.0-154 | | | 4.65 | 35 |
| cis-1,3-Dichloropropene | 10.0 | U | 11.3 | 10.2 | 113 | 102 | 80 | 10.0-151 | | | 10.2 | 37 |
| trans-1,3-Dichloropropene | 10.0 | U | 8.79 | 8.81 | 87.9 | 88.1 | 80 | 10.0-148 | | | 0.227 | 37 |
| 2,2-Dichloropropane | 10.0 | U | 9.06 | 8.41 | 90.6 | 84.1 | 80 | 10.0-138 | | | 7.44 | 36 |
| Di-isopropyl ether | 10.0 | U | 10.4 | 10.0 | 104 | 100 | 80 | 10.0-147 | | | 3.92 | 36 |
| Ethylbenzene | 10.0 | 51.0 | 57.8 | 62.7 | 68.0 | 117 | 80 | 10.0-160 | | | 8.13 | 38 |
| Hexachloro-1,3-butadiene | 10.0 | U | 15.2 | 13.9 | 152 | 139 | 80 | 10.0-160 | | | 8.93 | 40 |
| Isopropylbenzene | 10.0 | 6.36 | 17.8 | 18.5 | 114 | 121 | 80 | 10.0-155 | | | 3.86 | 38 |
| p-Isopropyltoluene | 10.0 | 3.13 | 26.4 | 22.3 | 233 | 192 | 80 | 10.0-160 | J5 | J5 | 16.8 | 40 |
| 2-Butanone (MEK) | 50.0 | U | 41.1 | 61.2 | 82.2 | 122 | 80 | 10.0-160 | | | 39.3 | 40 |
| Methylene Chloride | 10.0 | U | 10.6 | 9.98 | 106 | 99.8 | 80 | 10.0-141 | | | 6.03 | 37 |
| 4-Methyl-2-pentanone (MIBK) | 50.0 | U | 67.6 | 71.1 | 135 | 142 | 80 | 10.0-160 | | | 5.05 | 35 |
| Methyl tert-butyl ether | 10.0 | U | 11.1 | 10.1 | 111 | 101 | 80 | 11.0-147 | | | 9.43 | 35 |
| Naphthalene | 10.0 | 16.5 | 35.5 | 31.1 | 190 | 146 | 80 | 10.0-160 | J6 | | 13.2 | 36 |
| n-Propylbenzene | 10.0 | 19.6 | 46.7 | 36.8 | 271 | 172 | 80 | 10.0-158 | J5 | J5 | 23.7 | 38 |
| Styrene | 10.0 | U | 13.0 | 5.31 | 130 | 53.1 | 80 | 10.0-160 | | J3 | 84.0 | 40 |
| 1,1,1,2-Tetrachloroethane | 10.0 | U | 9.98 | 10.3 | 99.8 | 103 | 80 | 10.0-149 | | | 3.16 | 39 |
| 1,1,2,2-Tetrachloroethane | 10.0 | U | 21.2 | 20.3 | 212 | 203 | 80 | 10.0-160 | J6 | J5 | 4.34 | 35 |

## L1743427-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743427-04 06/11/24 18:19 • (MS) R4080721-4 06/11/24 19:26 • (MSD) R4080721-5 06/11/24 19:48

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | 10.0 | U | 12.1 | 9.84 | 121 | 98.4 | 80 | 10.0-160 | | | 20.6 | 36 |
| Tetrachloroethene | 10.0 | U | 10.2 | 10.2 | 102 | 102 | 80 | 10.0-156 | | | 0.000 | 39 |
| Toluene | 10.0 | 29.9 | 38.7 | 40.6 | 88.0 | 107 | 80 | 10.0-156 | | | 4.79 | 38 |
| 1,2,3-Trichlorobenzene | 10.0 | U | 12.1 | 11.1 | 121 | 111 | 80 | 10.0-160 | | | 8.62 | 40 |
| 1,2,4-Trichlorobenzene | 10.0 | U | 12.4 | 11.5 | 124 | 115 | 80 | 10.0-160 | | | 7.53 | 40 |
| 1,1,1-Trichloroethane | 10.0 | U | 10.7 | 10.3 | 107 | 103 | 80 | 10.0-144 | | | 3.81 | 35 |
| 1,1,2-Trichloroethane | 10.0 | U | 14.1 | 13.6 | 141 | 136 | 80 | 10.0-160 | | | 3.61 | 35 |
| Trichloroethene | 10.0 | U | 12.2 | 11.6 | 122 | 116 | 80 | 10.0-156 | | | 5.04 | 38 |
| Trichlorofluoromethane | 10.0 | U | 10.2 | 8.52 | 102 | 85.2 | 80 | 10.0-160 | | | 17.9 | 40 |
| 1,2,3-Trichloropropane | 10.0 | U | 14.4 | 10.8 | 144 | 108 | 80 | 10.0-156 | | | 28.6 | 35 |
| 1,2,4-Trimethylbenzene | 10.0 | 84.7 | 138 | 111 | 533 | 263 | 80 | 10.0-160 | V | V | 21.7 | 36 |
| 1,2,3-Trimethylbenzene | 10.0 | 28.1 | 42.2 | 44.5 | 141 | 164 | 80 | 10.0-160 | | J5 | 5.31 | 36 |
| 1,3,5-Trimethylbenzene | 10.0 | 30.7 | 44.3 | 29.8 | 136 | 0.000 | 80 | 10.0-160 | | J3 J6 | 39.1 | 38 |
| Vinyl chloride | 10.0 | U | 8.73 | 8.49 | 87.3 | 84.9 | 80 | 10.0-160 | | | 2.79 | 37 |
| Xylenes, Total | 30.0 | 278 | 288 | 309 | 33.3 | 103 | 80 | 10.0-160 | | | 7.04 | 38 |
| *(S) Toluene-d8* | | | | | *90.8* | *97.9* | | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *122* | *126* | | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *86.6* | *83.9* | | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4081215-3 06/12/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4081215-3 06/12/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | 0.00165 | J | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *113* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *96.5* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081215-1 06/12/24 21:07 • (LCSD) R4081215-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.538 | 0.522 | 86.1 | 83.5 | 10.0-160 | | | 3.02 | 31 |
| Acrylonitrile | 0.625 | 0.652 | 0.617 | 104 | 98.7 | 45.0-153 | | | 5.52 | 22 |
| Benzene | 0.125 | 0.123 | 0.114 | 98.4 | 91.2 | 70.0-123 | | | 7.59 | 20 |
| Bromobenzene | 0.125 | 0.148 | 0.134 | 118 | 107 | 73.0-121 | | | 9.93 | 20 |
| Bromodichloromethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 73.0-121 | | | 0.000 | 20 |

# QUALITY CONTROL SUMMARY

L1741416-20

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081215-1 06/12/24 21:07 • (LCSD) R4081215-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.0984 | 0.101 | 78.7 | 80.8 | 64.0-132 | | | 2.61 | 20 |
| Bromomethane | 0.125 | 0.170 | 0.160 | 136 | 128 | 56.0-147 | | | 6.06 | 20 |
| n-Butylbenzene | 0.125 | 0.141 | 0.133 | 113 | 106 | 68.0-135 | | | 5.84 | 20 |
| sec-Butylbenzene | 0.125 | 0.142 | 0.136 | 114 | 109 | 74.0-130 | | | 4.32 | 20 |
| tert-Butylbenzene | 0.125 | 0.141 | 0.132 | 113 | 106 | 75.0-127 | | | 6.59 | 20 |
| Carbon tetrachloride | 0.125 | 0.115 | 0.109 | 92.0 | 87.2 | 66.0-128 | | | 5.36 | 20 |
| Chlorobenzene | 0.125 | 0.128 | 0.123 | 102 | 98.4 | 76.0-128 | | | 3.98 | 20 |
| Chlorodibromomethane | 0.125 | 0.111 | 0.115 | 88.8 | 92.0 | 74.0-127 | | | 3.54 | 20 |
| Chloroethane | 0.125 | 0.152 | 0.147 | 122 | 118 | 61.0-134 | | | 3.34 | 20 |
| Chloroform | 0.125 | 0.114 | 0.107 | 91.2 | 85.6 | 72.0-123 | | | 6.33 | 20 |
| Chloromethane | 0.125 | 0.142 | 0.134 | 114 | 107 | 51.0-138 | | | 5.80 | 20 |
| 2-Chlorotoluene | 0.125 | 0.150 | 0.126 | 120 | 101 | 75.0-124 | | | 17.4 | 20 |
| 4-Chlorotoluene | 0.125 | 0.154 | 0.145 | 123 | 116 | 75.0-124 | | | 6.02 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.117 | 0.119 | 93.6 | 95.2 | 59.0-130 | | | 1.69 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.130 | 0.126 | 104 | 101 | 74.0-128 | | | 3.12 | 20 |
| Dibromomethane | 0.125 | 0.113 | 0.116 | 90.4 | 92.8 | 75.0-122 | | | 2.62 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.141 | 0.140 | 113 | 112 | 76.0-124 | | | 0.712 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.151 | 0.146 | 121 | 117 | 76.0-125 | | | 3.37 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.129 | 0.126 | 103 | 101 | 77.0-121 | | | 2.35 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 43.0-156 | | | 3.45 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.115 | 0.107 | 92.0 | 85.6 | 70.0-127 | | | 7.21 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.128 | 0.125 | 102 | 100 | 65.0-131 | | | 2.37 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.122 | 0.115 | 97.6 | 92.0 | 65.0-131 | | | 5.91 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.110 | 0.106 | 88.0 | 84.8 | 73.0-125 | | | 3.70 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.115 | 0.116 | 92.0 | 92.8 | 71.0-125 | | | 0.866 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.116 | 0.111 | 92.8 | 88.8 | 74.0-125 | | | 4.41 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.119 | 0.113 | 95.2 | 90.4 | 73.0-125 | | | 5.17 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.130 | 0.130 | 104 | 104 | 80.0-125 | | | 0.000 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.122 | 0.119 | 97.6 | 95.2 | 76.0-127 | | | 2.49 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.111 | 0.111 | 88.8 | 88.8 | 73.0-127 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.129 | 0.117 | 103 | 93.6 | 59.0-135 | | | 9.76 | 20 |
| Di-isopropyl ether | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 60.0-136 | | | 0.881 | 20 |
| Ethylbenzene | 0.125 | 0.129 | 0.124 | 103 | 99.2 | 74.0-126 | | | 3.95 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.115 | 0.119 | 92.0 | 95.2 | 57.0-150 | | | 3.42 | 20 |
| Isopropylbenzene | 0.125 | 0.132 | 0.129 | 106 | 103 | 72.0-127 | | | 2.30 | 20 |
| p-Isopropyltoluene | 0.125 | 0.144 | 0.139 | 115 | 111 | 72.0-133 | | | 3.53 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.463 | 0.428 | 74.1 | 68.5 | 30.0-160 | | | 7.86 | 24 |
| Methylene Chloride | 0.125 | 0.106 | 0.107 | 84.8 | 85.6 | 68.0-123 | | | 0.939 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.706 | 0.702 | 113 | 112 | 56.0-143 | | | 0.568 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 66.0-132 | | | 0.881 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081215-1 06/12/24 21:07 • (LCSD) R4081215-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.131 | 0.133 | 105 | 106 | 59.0-130 | | | 1.52 | 20 |
| n-Propylbenzene | 0.125 | 0.138 | 0.134 | 110 | 107 | 74.0-126 | | | 2.94 | 20 |
| Styrene | 0.125 | 0.130 | 0.122 | 104 | 97.6 | 72.0-127 | | | 6.35 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 74.0-129 | | | 0.000 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.127 | 0.129 | 102 | 103 | 68.0-128 | | | 1.56 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.113 | 0.103 | 90.4 | 82.4 | 61.0-139 | | | 9.26 | 20 |
| Tetrachloroethene | 0.125 | 0.134 | 0.123 | 107 | 98.4 | 70.0-136 | | | 8.56 | 20 |
| Toluene | 0.125 | 0.133 | 0.128 | 106 | 102 | 75.0-121 | | | 3.83 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.143 | 0.142 | 114 | 114 | 59.0-139 | | | 0.702 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.131 | 0.129 | 105 | 103 | 62.0-137 | | | 1.54 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.118 | 0.113 | 94.4 | 90.4 | 69.0-126 | | | 4.33 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.124 | 0.123 | 99.2 | 98.4 | 78.0-123 | | | 0.810 | 20 |
| Trichloroethene | 0.125 | 0.126 | 0.118 | 101 | 94.4 | 76.0-126 | | | 6.56 | 20 |
| Trichlorofluoromethane | 0.125 | 0.151 | 0.148 | 121 | 118 | 61.0-142 | | | 2.01 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.144 | 0.148 | 115 | 118 | 67.0-129 | | | 2.74 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.144 | 0.135 | 115 | 108 | 70.0-126 | | | 6.45 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.143 | 0.133 | 114 | 106 | 74.0-124 | | | 7.25 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.143 | 0.132 | 114 | 106 | 73.0-127 | | | 8.00 | 20 |
| Vinyl chloride | 0.125 | 0.136 | 0.129 | 109 | 103 | 63.0-134 | | | 5.28 | 20 |
| Xylenes, Total | 0.375 | 0.419 | 0.401 | 112 | 107 | 72.0-127 | | | 4.39 | 20 |
| *(S) Toluene-d8* | | | | *110* | *109* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *99.1* | *97.3* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *114* | *111* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4078504-2 06/05/24 21:18

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

## Method Blank (MB)

(MB) R4078504-2 06/05/24 21:18

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *106* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *95.6* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R4078504-1 06/05/24 20:39

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 25.0 | 30.6 | 122 | 19.0-160 | J |
| Acrolein | 25.0 | 36.3 | 145 | 10.0-160 | J |
| Acrylonitrile | 25.0 | 34.0 | 136 | 55.0-149 | |
| Benzene | 5.00 | 5.52 | 110 | 70.0-123 | |

## Laboratory Control Sample (LCS)

(LCS) R4078504-1 06/05/24 20:39

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 5.30 | 106 | 73.0-121 | |
| Bromodichloromethane | 5.00 | 5.43 | 109 | 75.0-120 | |
| Bromoform | 5.00 | 4.98 | 99.6 | 68.0-132 | |
| Bromomethane | 5.00 | 5.23 | 105 | 10.0-160 | |
| n-Butylbenzene | 5.00 | 5.98 | 120 | 73.0-125 | |
| sec-Butylbenzene | 5.00 | 5.82 | 116 | 75.0-125 | |
| tert-Butylbenzene | 5.00 | 6.01 | 120 | 76.0-124 | |
| Carbon tetrachloride | 5.00 | 5.92 | 118 | 68.0-126 | |
| Chlorobenzene | 5.00 | 5.58 | 112 | 80.0-121 | |
| Chlorodibromomethane | 5.00 | 5.41 | 108 | 77.0-125 | |
| Chloroethane | 5.00 | 5.36 | 107 | 47.0-150 | |
| Chloroform | 5.00 | 5.31 | 106 | 73.0-120 | |
| Chloromethane | 5.00 | 5.73 | 115 | 41.0-142 | |
| 2-Chlorotoluene | 5.00 | 5.55 | 111 | 76.0-123 | |
| 4-Chlorotoluene | 5.00 | 5.39 | 108 | 75.0-122 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 5.81 | 116 | 58.0-134 | |
| 1,2-Dibromoethane | 5.00 | 5.67 | 113 | 80.0-122 | |
| Dibromomethane | 5.00 | 5.50 | 110 | 80.0-120 | |
| 1,2-Dichlorobenzene | 5.00 | 6.05 | 121 | 79.0-121 | |
| 1,3-Dichlorobenzene | 5.00 | 5.74 | 115 | 79.0-120 | |
| 1,4-Dichlorobenzene | 5.00 | 5.65 | 113 | 79.0-120 | |
| Dichlorodifluoromethane | 5.00 | 6.14 | 123 | 51.0-149 | |
| 1,1-Dichloroethane | 5.00 | 5.72 | 114 | 70.0-126 | |
| 1,2-Dichloroethane | 5.00 | 5.17 | 103 | 70.0-128 | |
| 1,1-Dichloroethene | 5.00 | 5.83 | 117 | 71.0-124 | |
| cis-1,2-Dichloroethene | 5.00 | 5.19 | 104 | 73.0-120 | |
| trans-1,2-Dichloroethene | 5.00 | 5.44 | 109 | 73.0-120 | |
| 1,2-Dichloropropane | 5.00 | 5.66 | 113 | 77.0-125 | |
| 1,1-Dichloropropene | 5.00 | 5.69 | 114 | 74.0-126 | |
| 1,3-Dichloropropane | 5.00 | 5.67 | 113 | 80.0-120 | |
| cis-1,3-Dichloropropene | 5.00 | 5.71 | 114 | 80.0-123 | |
| trans-1,3-Dichloropropene | 5.00 | 5.71 | 114 | 78.0-124 | |
| 2,2-Dichloropropane | 5.00 | 5.40 | 108 | 58.0-130 | |
| Di-isopropyl ether | 5.00 | 5.53 | 111 | 58.0-138 | |
| Ethylbenzene | 5.00 | 5.57 | 111 | 79.0-123 | |
| Hexachloro-1,3-butadiene | 5.00 | 6.36 | 127 | 54.0-138 | |
| Isopropylbenzene | 5.00 | 5.73 | 115 | 76.0-127 | |
| p-Isopropyltoluene | 5.00 | 5.71 | 114 | 76.0-125 | |
| 2-Butanone (MEK) | 25.0 | 34.9 | 140 | 44.0-160 | |
| Methylene Chloride | 5.00 | 5.25 | 105 | 67.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078504-1 06/05/24 20:39

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 30.5 | 122 | 68.0-142 | |
| Methyl tert-butyl ether | 5.00 | 5.66 | 113 | 68.0-125 | |
| Naphthalene | 5.00 | 6.00 | 120 | 54.0-135 | |
| n-Propylbenzene | 5.00 | 5.52 | 110 | 77.0-124 | |
| Styrene | 5.00 | 5.54 | 111 | 73.0-130 | |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.37 | 107 | 75.0-125 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 5.19 | 104 | 65.0-130 | |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 6.27 | 125 | 69.0-132 | |
| Tetrachloroethene | 5.00 | 5.84 | 117 | 72.0-132 | |
| Toluene | 5.00 | 5.21 | 104 | 79.0-120 | |
| 1,2,3-Trichlorobenzene | 5.00 | 6.49 | 130 | 50.0-138 | |
| 1,2,4-Trichlorobenzene | 5.00 | 6.51 | 130 | 57.0-137 | |
| 1,1,1-Trichloroethane | 5.00 | 6.06 | 121 | 73.0-124 | |
| 1,1,2-Trichloroethane | 5.00 | 5.60 | 112 | 80.0-120 | |
| Trichloroethene | 5.00 | 6.17 | 123 | 78.0-124 | |
| Trichlorofluoromethane | 5.00 | 6.05 | 121 | 59.0-147 | |
| 1,2,3-Trichloropropane | 5.00 | 5.47 | 109 | 73.0-130 | |
| 1,2,4-Trimethylbenzene | 5.00 | 5.41 | 108 | 76.0-121 | |
| 1,2,3-Trimethylbenzene | 5.00 | 5.41 | 108 | 77.0-120 | |
| 1,3,5-Trimethylbenzene | 5.00 | 5.55 | 111 | 76.0-122 | |
| Vinyl chloride | 5.00 | 5.26 | 105 | 67.0-131 | |
| Xylenes, Total | 15.0 | 17.1 | 114 | 79.0-123 | |
| *(S) Toluene-d8* | | | *98.5* | *80.0-120* | |
| *(S) 4-Bromofluorobenzene* | | | *104* | *77.0-126* | |
| *(S) 1,2-Dichloroethane-d4* | | | *98.5* | *70.0-130* | |

## L1741290-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741290-01 06/06/24 00:10 • (MS) R4078504-3 06/06/24 03:59 • (MSD) R4078504-4 06/06/24 04:18

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | U | 33.7 | 30.5 | 135 | 122 | 1 | 10.0-160 | | | 9.97 | 35 |
| Acrolein | 25.0 | U | 32.5 | 35.5 | 130 | 142 | 1 | 10.0-160 | J | J | 8.82 | 39 |
| Acrylonitrile | 25.0 | U | 33.6 | 33.0 | 134 | 132 | 1 | 21.0-160 | | | 1.80 | 32 |
| Benzene | 5.00 | U | 4.35 | 5.10 | 87.0 | 102 | 1 | 17.0-158 | | | 15.9 | 27 |
| Bromobenzene | 5.00 | U | 4.54 | 5.24 | 90.8 | 105 | 1 | 30.0-149 | | | 14.3 | 28 |
| Bromodichloromethane | 5.00 | U | 4.79 | 5.43 | 95.8 | 109 | 1 | 31.0-150 | | | 12.5 | 27 |
| Bromoform | 5.00 | U | 4.63 | 5.15 | 92.6 | 103 | 1 | 29.0-150 | | | 10.6 | 29 |
| Bromomethane | 5.00 | U | 3.76 | 4.25 | 75.2 | 85.0 | 1 | 10.0-160 | | | 12.2 | 38 |

# QUALITY CONTROL SUMMARY

L1741416-07,08

## L1741290-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741290-01 06/06/24 00:10 • (MS) R4078504-3 06/06/24 03:59 • (MSD) R4078504-4 06/06/24 04:18

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 5.00 | U | 4.94 | 5.88 | 98.8 | 118 | 1 | 31.0-150 | | | 17.4 | 30 |
| sec-Butylbenzene | 5.00 | U | 4.81 | 5.90 | 96.2 | 118 | 1 | 33.0-155 | | | 20.4 | 29 |
| tert-Butylbenzene | 5.00 | U | 5.82 | 6.06 | 116 | 121 | 1 | 34.0-153 | | | 4.04 | 28 |
| Carbon tetrachloride | 5.00 | U | 4.71 | 5.92 | 94.2 | 118 | 1 | 23.0-159 | | | 22.8 | 28 |
| Chlorobenzene | 5.00 | U | 4.55 | 5.42 | 91.0 | 108 | 1 | 33.0-152 | | | 17.5 | 27 |
| Chlorodibromomethane | 5.00 | U | 4.82 | 5.49 | 96.4 | 110 | 1 | 37.0-149 | | | 13.0 | 27 |
| Chloroethane | 5.00 | U | 3.91 | 4.61 | 78.2 | 92.2 | 1 | 10.0-160 | | | 16.4 | 30 |
| Chloroform | 5.00 | U | 4.49 | 5.15 | 89.8 | 103 | 1 | 29.0-154 | | | 13.7 | 28 |
| Chloromethane | 5.00 | U | 5.03 | 6.00 | 101 | 120 | 1 | 10.0-160 | | | 17.6 | 29 |
| 2-Chlorotoluene | 5.00 | U | 4.46 | 5.44 | 89.2 | 109 | 1 | 32.0-153 | | | 19.8 | 28 |
| 4-Chlorotoluene | 5.00 | U | 4.33 | 5.23 | 86.6 | 105 | 1 | 32.0-150 | | | 18.8 | 28 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | U | 5.30 | 5.69 | 106 | 114 | 1 | 22.0-151 | | | 7.10 | 34 |
| 1,2-Dibromoethane | 5.00 | U | 5.11 | 5.48 | 102 | 110 | 1 | 34.0-147 | | | 6.99 | 27 |
| Dibromomethane | 5.00 | U | 4.86 | 5.38 | 97.2 | 108 | 1 | 30.0-151 | | | 10.2 | 27 |
| 1,2-Dichlorobenzene | 5.00 | U | 5.06 | 5.92 | 101 | 118 | 1 | 34.0-149 | | | 15.7 | 28 |
| 1,3-Dichlorobenzene | 5.00 | U | 4.73 | 5.60 | 94.6 | 112 | 1 | 36.0-146 | | | 16.8 | 27 |
| 1,4-Dichlorobenzene | 5.00 | U | 4.80 | 5.57 | 96.0 | 111 | 1 | 35.0-142 | | | 14.9 | 27 |
| Dichlorodifluoromethane | 5.00 | U | 4.40 | 5.39 | 88.0 | 108 | 1 | 10.0-160 | J | | 20.2 | 29 |
| 1,1-Dichloroethane | 5.00 | U | 4.68 | 5.54 | 93.6 | 111 | 1 | 25.0-158 | | | 16.8 | 27 |
| 1,2-Dichloroethane | 5.00 | U | 4.40 | 4.71 | 88.0 | 94.2 | 1 | 29.0-151 | | | 6.81 | 27 |
| 1,1-Dichloroethene | 5.00 | U | 4.31 | 5.33 | 86.2 | 107 | 1 | 11.0-160 | | | 21.2 | 29 |
| cis-1,2-Dichloroethene | 5.00 | U | 4.44 | 5.17 | 88.8 | 103 | 1 | 10.0-160 | | | 15.2 | 27 |
| trans-1,2-Dichloroethene | 5.00 | U | 4.15 | 4.78 | 83.0 | 95.6 | 1 | 17.0-153 | | | 14.1 | 27 |
| 1,2-Dichloropropane | 5.00 | U | 4.94 | 5.59 | 98.8 | 112 | 1 | 30.0-156 | | | 12.3 | 27 |
| 1,1-Dichloropropene | 5.00 | U | 4.37 | 5.40 | 87.4 | 108 | 1 | 25.0-158 | | | 21.1 | 27 |
| 1,3-Dichloropropane | 5.00 | U | 5.11 | 5.39 | 102 | 108 | 1 | 38.0-147 | | | 5.33 | 27 |
| cis-1,3-Dichloropropene | 5.00 | U | 4.81 | 5.37 | 96.2 | 107 | 1 | 34.0-149 | | | 11.0 | 28 |
| trans-1,3-Dichloropropene | 5.00 | U | 4.90 | 5.49 | 98.0 | 110 | 1 | 32.0-149 | | | 11.4 | 28 |
| 2,2-Dichloropropane | 5.00 | U | 4.35 | 5.10 | 87.0 | 102 | 1 | 24.0-152 | | | 15.9 | 29 |
| Di-isopropyl ether | 5.00 | U | 4.92 | 5.34 | 98.4 | 107 | 1 | 21.0-160 | | | 8.19 | 28 |
| Ethylbenzene | 5.00 | U | 4.72 | 5.73 | 94.4 | 115 | 1 | 30.0-155 | | | 19.3 | 27 |
| Hexachloro-1,3-butadiene | 5.00 | U | 5.76 | 6.79 | 115 | 136 | 1 | 20.0-154 | | | 16.4 | 34 |
| Isopropylbenzene | 5.00 | U | 4.75 | 5.88 | 95.0 | 118 | 1 | 28.0-157 | | | 21.3 | 27 |
| p-Isopropyltoluene | 5.00 | U | 4.80 | 5.77 | 96.0 | 115 | 1 | 30.0-154 | | | 18.4 | 29 |
| 2-Butanone (MEK) | 25.0 | U | 31.2 | 31.0 | 125 | 124 | 1 | 10.0-160 | | | 0.643 | 32 |
| Methylene Chloride | 5.00 | U | 4.19 | 4.88 | 83.8 | 97.6 | 1 | 23.0-144 | | | 15.2 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | U | 29.4 | 30.0 | 118 | 120 | 1 | 29.0-160 | | | 2.02 | 29 |
| Methyl tert-butyl ether | 5.00 | U | 5.15 | 5.46 | 103 | 109 | 1 | 28.0-150 | | | 5.84 | 29 |
| Naphthalene | 5.00 | U | 6.60 | 5.98 | 132 | 120 | 1 | 12.0-156 | | | 9.86 | 35 |
| n-Propylbenzene | 5.00 | U | 4.56 | 5.48 | 91.2 | 110 | 1 | 31.0-154 | | | 18.3 | 28 |

# QUALITY CONTROL SUMMARY

L1741416-07,08

## L1741290-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741290-01 06/06/24 00:10 • (MS) R4078504-3 06/06/24 03:59 • (MSD) R4078504-4 06/06/24 04:18

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | 5.00 | U | 4.59 | 5.49 | 91.8 | 110 | 1 | 33.0-155 | | | 17.9 | 28 |
| 1,1,1,2-Tetrachloroethane | 5.00 | U | 4.69 | 5.58 | 93.8 | 112 | 1 | 36.0-151 | | | 17.3 | 29 |
| 1,1,2,2-Tetrachloroethane | 5.00 | U | 5.09 | 5.35 | 102 | 107 | 1 | 33.0-150 | | | 4.98 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | U | 4.89 | 6.27 | 97.8 | 125 | 1 | 23.0-160 | | | 24.7 | 30 |
| Tetrachloroethene | 5.00 | U | 4.43 | 5.75 | 88.6 | 115 | 1 | 10.0-160 | | | 25.9 | 27 |
| Toluene | 5.00 | U | 4.21 | 5.05 | 84.2 | 101 | 1 | 26.0-154 | | | 18.1 | 28 |
| 1,2,3-Trichlorobenzene | 5.00 | U | 5.80 | 6.52 | 116 | 130 | 1 | 17.0-150 | | | 11.7 | 36 |
| 1,2,4-Trichlorobenzene | 5.00 | U | 5.81 | 6.59 | 116 | 132 | 1 | 24.0-150 | | | 12.6 | 33 |
| 1,1,1-Trichloroethane | 5.00 | U | 4.89 | 5.92 | 97.8 | 118 | 1 | 23.0-160 | | | 19.1 | 28 |
| 1,1,2-Trichloroethane | 5.00 | U | 5.18 | 5.63 | 104 | 113 | 1 | 35.0-147 | | | 8.33 | 27 |
| Trichloroethene | 5.00 | U | 4.68 | 5.73 | 93.6 | 115 | 1 | 10.0-160 | | | 20.2 | 25 |
| Trichlorofluoromethane | 5.00 | U | 4.64 | 5.75 | 92.8 | 115 | 1 | 17.0-160 | J | | 21.4 | 31 |
| 1,2,3-Trichloropropane | 5.00 | U | 5.05 | 5.53 | 101 | 111 | 1 | 34.0-151 | | | 9.07 | 29 |
| 1,2,4-Trimethylbenzene | 5.00 | U | 5.10 | 5.55 | 102 | 111 | 1 | 26.0-154 | | | 8.45 | 27 |
| 1,2,3-Trimethylbenzene | 5.00 | U | 4.67 | 5.40 | 93.4 | 108 | 1 | 32.0-149 | | | 14.5 | 28 |
| 1,3,5-Trimethylbenzene | 5.00 | U | 4.64 | 5.52 | 92.8 | 110 | 1 | 28.0-153 | | | 17.3 | 27 |
| Vinyl chloride | 5.00 | U | 3.83 | 4.45 | 76.6 | 89.0 | 1 | 10.0-160 | | | 15.0 | 27 |
| Xylenes, Total | 15.0 | U | 15.9 | 17.6 | 106 | 117 | 1 | 29.0-154 | | | 10.1 | 28 |
| *(S) Toluene-d8* | | | | | *98.4* | *99.1* | | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *105* | *106* | | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *98.1* | *97.4* | | *70.0-130* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4076519-1 06/02/24 10:37

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *59.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076519-2 06/02/24 10:58 • (LCSD) R4076519-3 06/02/24 11:19

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 793 | 803 | 106 | 107 | 50.0-150 | | | 1.25 | 20 |
| C22-C32 Hydrocarbons | 750 | 722 | 733 | 96.3 | 97.7 | 50.0-150 | | | 1.51 | 20 |
| *(S) o-Terphenyl* | | | | *73.5* | *73.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4077959-1 06/05/24 20:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *89.2* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4077959-2 06/06/24 01:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 19.3 | 77.2 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 19.0 | 76.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *69.1* | *18.0-148* | |

## Method Blank (MB)

(MB) R4078449-1 06/06/24 17:58

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *72.4* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4078449-2 06/06/24 18:12

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 19.4 | 77.6 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.3 | 69.2 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *75.7* | *18.0-148* | |

## L1742731-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742731-04 06/06/24 22:23 • (MS) R4078449-3 06/06/24 22:37 • (MSD) R4078449-4 06/06/24 22:51

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 26.5 | 24.4 | 39.9 | 31.3 | 58.4 | 26.1 | 20 | 50.0-150 | | J3 J6 | 24.0 | 20 |
| C22-C32 Hydrocarbons | 24.5 | 279 | 183 | 117 | 0.000 | 0.000 | 20 | 50.0-150 | V | J3 V | 44.0 | 20 |
| *(S) o-Terphenyl* | | | | | *89.0* | *78.9* | | *18.0-148* | J7 | J7 | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract

## Method Blank (MB)

(MB) R4081254-1 06/12/24 18:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *89.5* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4081254-2 06/12/24 18:57

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 19.1 | 76.4 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 16.9 | 67.6 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *68.9* | *18.0-148* | |

## L1741416-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-15 06/12/24 22:33 • (MS) R4081254-3 06/12/24 22:47 • (MSD) R4081254-4 06/12/24 23:02

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 33.4 | 341 | 660 | 630 | 955 | 860 | 20 | 50.0-150 | V | V | 4.71 | 20 |
| C22-C32 Hydrocarbons | 24.2 | 1570 | 2930 | 2760 | 4050 | 3540 | 20 | 50.0-150 | V | V | 5.83 | 20 |
| *(S) o-Terphenyl* | | | | | *99.2* | *93.5* | | *18.0-148* | J7 | J7 | | |

## Method Blank (MB)

(MB) R4077989-1 06/05/24 21:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *113* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *101* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4077989-5 06/05/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.172 | 103 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.165 | 98.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *100* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *93.2* | *10.0-139* | |

## L1741413-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741413-02 06/05/24 22:22 • (MS) R4077989-6 06/05/24 22:50 • (MSD) R4077989-7 06/05/24 23:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.167 | U | 0.154 | 0.156 | 91.8 | 93.7 | 1 | 10.0-160 | | | 1.36 | 37 |
| PCB 1260 | 0.167 | U | 0.176 | 0.175 | 105 | 105 | 1 | 10.0-160 | | | 0.601 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *109* | *114* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *92.8* | *92.9* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4078157-1 06/05/24 21:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *129* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *105* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4078157-2 06/05/24 21:34

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.112 | 67.1 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.136 | 81.4 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *94.0* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *78.4* | *10.0-139* | |

## L1741452-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741452-01 06/05/24 21:44 • (MS) R4078157-3 06/05/24 21:54 • (MSD) R4078157-4 06/05/24 22:03

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.166 | U | 0.0725 | 0.0788 | 43.7 | 48.0 | 1 | 10.0-160 | | | 8.33 | 37 |
| PCB 1260 | 0.166 | U | 0.0687 | 0.0671 | 41.4 | 40.9 | 1 | 10.0-160 | | | 2.36 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *42.8* | *41.5* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *57.0* | *60.2* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4079161-1 06/07/24 19:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0236 | 0.0680 |
| PCB 1221 | U | | 0.0236 | 0.0680 |
| PCB 1232 | U | | 0.0236 | 0.0680 |
| PCB 1242 | U | | 0.0236 | 0.0680 |
| PCB 1248 | U | | 0.0148 | 0.0340 |
| PCB 1254 | U | | 0.0148 | 0.0340 |
| PCB 1260 | U | | 0.0148 | 0.0340 |
| *(S) Decachlorobiphenyl* | *105* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *86.9* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4079161-2 06/07/24 19:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.118 | 70.7 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.158 | 94.6 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *88.1* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *86.5* | *10.0-139* | |

## Method Blank (MB)

(MB) R4084469-1 06/19/24 20:37

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *95.6* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *93.5* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4084469-2 06/19/24 20:56

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.169 | 101 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.164 | 98.2 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *97.0* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *95.0* | *10.0-139* | |

## L1745477-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1745477-06 06/20/24 02:27 • (MS) R4084469-3 06/20/24 02:37 • (MSD) R4084469-4 06/20/24 02:46

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.165 | U | 0.111 | 0.215 | 67.5 | 136 | 1 | 10.0-160 | | J3 | 63.8 | 37 |
| PCB 1260 | 0.165 | 0.895 | 1.09 | 2.21 | 120 | 831 | 1 | 10.0-160 | E | E J3 V | 67.9 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *35.2* | *49.1* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *26.0* | *37.2* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4078668-2 06/06/24 18:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

# QUALITY CONTROL SUMMARY

L1741416-12,17,18,22,27

## Method Blank (MB)

(MB) R4078668-2 06/06/24 18:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *74.3* | | | *12.0-120* |
| *(S) Phenol-d5* | *67.3* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *61.6* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *64.3* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *61.9* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *68.5* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078668-1 06/06/24 18:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.396 | 59.5 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.410 | 61.6 | 40.0-120 | |
| Anthracene | 0.666 | 0.404 | 60.7 | 42.0-120 | |
| Benzidine | 1.33 | 0.488 | 36.7 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.423 | 63.5 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.418 | 62.8 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.415 | 62.3 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.409 | 61.4 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.425 | 63.8 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.351 | 52.7 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.430 | 64.6 | 16.0-120 | |

# QUALITY CONTROL SUMMARY

L1741416-12,17,18,22,27

## Laboratory Control Sample (LCS)

(LCS) R4078668-1 06/06/24 18:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.383 | 57.5 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.436 | 65.5 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.389 | 58.4 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.446 | 67.0 | 40.0-120 | |
| Chrysene | 0.666 | 0.411 | 61.7 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.413 | 62.0 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.379 | 56.9 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.377 | 56.6 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.371 | 55.7 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.824 | 62.0 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.462 | 69.4 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.456 | 68.5 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.438 | 65.8 | 44.0-120 | |
| Fluorene | 0.666 | 0.421 | 63.2 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.422 | 63.4 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.373 | 56.0 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.300 | 45.0 | 15.0-120 | J |
| Hexachloroethane | 0.666 | 0.399 | 59.9 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.404 | 60.7 | 45.0-120 | |
| Isophorone | 0.666 | 0.354 | 53.2 | 23.0-120 | |
| Naphthalene | 0.666 | 0.329 | 49.4 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.357 | 53.6 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.289 | 43.4 | 10.0-125 | J |
| n-Nitrosodiphenylamine | 0.666 | 0.406 | 61.0 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.396 | 59.5 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.404 | 60.7 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.457 | 68.6 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.437 | 65.6 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.411 | 61.7 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.434 | 65.2 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.427 | 64.1 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.448 | 67.3 | 40.0-120 | |
| Pyrene | 0.666 | 0.428 | 64.3 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.354 | 53.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.373 | 56.0 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.432 | 64.9 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.378 | 56.8 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.437 | 65.6 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.490 | 73.6 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.405 | 60.8 | 10.0-120 | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Laboratory Control Sample (LCS)

(LCS) R4078668-1 06/06/24 18:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.411 | 61.7 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.390 | 58.6 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.359 | 53.9 | 29.0-120 | |
| Phenol | 0.666 | 0.412 | 61.9 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.414 | 62.2 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *75.2* | *12.0-120* | |
| *(S) Phenol-d5* | | | *65.6* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *51.7* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *65.5* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *63.4* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *65.8* | *10.0-120* | |

## L1740925-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-22 06/06/24 21:13 • (MS) R4078668-3 06/06/24 21:33 • (MSD) R4078668-4 06/06/24 21:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.887 | U | 0.487 | 0.537 | 55.0 | 60.5 | 2 | 18.0-120 | | | 9.65 | 32 |
| Acenaphthylene | 0.887 | 0.0194 | 0.502 | 0.566 | 54.4 | 61.7 | 2 | 25.0-120 | | | 12.0 | 32 |
| Anthracene | 0.887 | 0.0219 | 0.552 | 0.586 | 59.7 | 63.6 | 2 | 22.0-120 | | | 6.10 | 29 |
| Benzidine | 1.78 | U | U | 0.212 | 0.000 | 12.0 | 2 | 10.0-120 | J6 | J J3 | 200 | 40 |
| Benzo(a)anthracene | 0.887 | 0.168 | 0.662 | 0.771 | 55.7 | 67.9 | 2 | 25.0-120 | | | 15.1 | 29 |
| Benzo(b)fluoranthene | 0.887 | 0.304 | 0.669 | 0.787 | 41.1 | 54.4 | 2 | 19.0-122 | | | 16.1 | 31 |
| Benzo(k)fluoranthene | 0.887 | 0.0940 | 0.573 | 0.648 | 54.0 | 62.4 | 2 | 23.0-120 | | | 12.3 | 30 |
| Benzo(g,h,i)perylene | 0.887 | 0.158 | 0.530 | 0.613 | 42.0 | 51.4 | 2 | 10.0-120 | | | 14.5 | 33 |
| Benzo(a)pyrene | 0.887 | 0.211 | 0.654 | 0.752 | 50.0 | 61.0 | 2 | 24.0-120 | | | 13.9 | 30 |
| Bis(2-chlorethoxy)methane | 0.887 | U | 0.419 | 0.447 | 47.3 | 50.5 | 2 | 10.0-120 | J | J | 6.47 | 34 |
| Bis(2-chloroethyl)ether | 0.887 | U | 0.453 | 0.494 | 51.1 | 55.7 | 2 | 10.0-120 | J | J | 8.74 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.887 | U | 0.382 | 0.418 | 43.1 | 47.1 | 2 | 10.0-120 | J | J | 9.02 | 40 |
| 4-Bromophenyl-phenylether | 0.887 | U | 0.580 | 0.617 | 65.4 | 69.6 | 2 | 27.0-120 | J | J | 6.25 | 30 |
| 2-Chloronaphthalene | 0.887 | U | 0.458 | 0.506 | 51.7 | 57.1 | 2 | 20.0-120 | | | 9.97 | 32 |
| 4-Chlorophenyl-phenylether | 0.887 | U | 0.577 | 0.626 | 65.1 | 70.6 | 2 | 24.0-120 | J | J | 8.21 | 29 |
| Chrysene | 0.887 | 0.260 | 0.668 | 0.780 | 45.9 | 58.6 | 2 | 21.0-120 | | | 15.5 | 29 |
| Dibenz(a,h)anthracene | 0.887 | 0.0447 | 0.522 | 0.572 | 53.8 | 59.4 | 2 | 10.0-120 | | | 9.04 | 32 |
| 1,2-Dichlorobenzene | 0.887 | U | 0.390 | 0.439 | 44.0 | 49.5 | 2 | 10.0-120 | J | J | 11.9 | 38 |
| 1,3-Dichlorobenzene | 0.887 | U | 0.379 | 0.402 | 42.8 | 45.3 | 2 | 10.0-120 | J | J | 5.81 | 40 |
| 1,4-Dichlorobenzene | 0.887 | U | 0.379 | 0.405 | 42.8 | 45.6 | 2 | 10.0-120 | J | J | 6.47 | 39 |
| 3,3-Dichlorobenzidine | 1.78 | U | 1.12 | 1.18 | 62.9 | 66.5 | 2 | 10.0-120 | | | 5.58 | 34 |
| 2,4-Dinitrotoluene | 0.887 | U | 0.613 | 0.672 | 69.1 | 75.8 | 2 | 30.0-120 | J | J | 9.15 | 31 |

# QUALITY CONTROL SUMMARY

L1741416-12,17,18,22,27

## L1740925-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-22 06/06/24 21:13 • (MS) R4078668-3 06/06/24 21:33 • (MSD) R4078668-4 06/06/24 21:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.887 | U | 0.576 | 0.632 | 64.9 | 71.2 | 2 | 25.0-120 | J | J | 9.29 | 31 |
| Fluoranthene | 0.887 | 0.219 | 0.721 | 0.841 | 56.6 | 70.2 | 2 | 18.0-126 | | | 15.4 | 32 |
| Fluorene | 0.887 | U | 0.541 | 0.590 | 61.0 | 66.6 | 2 | 25.0-120 | | | 8.74 | 30 |
| Hexachlorobenzene | 0.887 | U | 0.593 | 0.596 | 66.9 | 67.2 | 2 | 27.0-120 | J | J | 0.449 | 28 |
| Hexachloro-1,3-butadiene | 0.887 | U | 0.483 | 0.540 | 54.5 | 60.8 | 2 | 10.0-120 | J | J | 11.0 | 38 |
| Hexachlorocyclopentadiene | 0.887 | U | 0.0501 | 0.0636 | 5.65 | 7.17 | 2 | 10.0-120 | J J6 | J J6 | 23.7 | 40 |
| Hexachloroethane | 0.887 | U | 0.389 | 0.427 | 43.8 | 48.2 | 2 | 10.0-120 | J | J | 9.49 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.887 | 0.159 | 0.574 | 0.638 | 46.8 | 54.1 | 2 | 10.0-120 | | | 10.6 | 32 |
| Isophorone | 0.887 | U | 0.438 | 0.459 | 49.4 | 51.8 | 2 | 13.0-120 | J | J | 4.76 | 34 |
| Naphthalene | 0.887 | U | 0.406 | 0.434 | 45.8 | 48.9 | 2 | 10.0-120 | | | 6.68 | 35 |
| Nitrobenzene | 0.887 | U | 0.403 | 0.429 | 45.5 | 48.3 | 2 | 10.0-120 | J | J | 6.10 | 36 |
| n-Nitrosodimethylamine | 0.887 | U | 0.326 | 0.295 | 36.7 | 33.3 | 2 | 10.0-127 | J | J | 9.89 | 40 |
| n-Nitrosodiphenylamine | 0.887 | U | 0.525 | 0.572 | 59.2 | 64.5 | 2 | 17.0-120 | J | J | 8.53 | 29 |
| n-Nitrosodi-n-propylamine | 0.887 | U | 0.411 | 0.446 | 46.4 | 50.3 | 2 | 10.0-120 | J | J | 8.10 | 37 |
| Phenanthrene | 0.887 | 0.0714 | 0.578 | 0.642 | 57.2 | 64.4 | 2 | 17.0-120 | | | 10.5 | 31 |
| Benzylbutyl phthalate | 0.887 | U | 0.610 | 0.645 | 68.8 | 72.7 | 2 | 23.0-120 | J | J | 5.53 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.887 | U | 0.585 | 0.638 | 66.0 | 72.0 | 2 | 17.0-126 | J | J | 8.73 | 30 |
| Di-n-butyl phthalate | 0.887 | U | 0.574 | 0.596 | 64.8 | 67.2 | 2 | 30.0-120 | J | J | 3.65 | 29 |
| Diethyl phthalate | 0.887 | U | 0.585 | 0.601 | 66.0 | 67.8 | 2 | 26.0-120 | J | J | 2.70 | 28 |
| Dimethyl phthalate | 0.887 | U | 0.549 | 0.580 | 61.9 | 65.4 | 2 | 25.0-120 | J | J | 5.44 | 29 |
| Di-n-octyl phthalate | 0.887 | U | 0.638 | 0.676 | 72.0 | 76.2 | 2 | 21.0-123 | J | J | 5.69 | 29 |
| Pyrene | 0.887 | 0.235 | 0.670 | 0.791 | 49.1 | 62.7 | 2 | 16.0-121 | | | 16.5 | 32 |
| 1,2,4-Trichlorobenzene | 0.887 | U | 0.426 | 0.479 | 48.0 | 54.1 | 2 | 12.0-120 | J | J | 11.8 | 37 |
| 4-Chloro-3-methylphenol | 0.887 | U | 0.557 | 0.577 | 62.8 | 65.1 | 2 | 15.0-120 | J | J | 3.53 | 30 |
| 2-Chlorophenol | 0.887 | U | 0.481 | 0.510 | 54.2 | 57.5 | 2 | 15.0-120 | J | J | 5.93 | 37 |
| 2,4-Dichlorophenol | 0.887 | U | 0.494 | 0.573 | 55.7 | 64.6 | 2 | 20.0-120 | J | J | 14.8 | 31 |
| 2,4-Dimethylphenol | 0.887 | U | 0.556 | 0.589 | 62.7 | 66.4 | 2 | 10.0-120 | J | J | 5.83 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.887 | U | 0.473 | 0.506 | 53.3 | 57.1 | 2 | 10.0-120 | J | J | 6.82 | 39 |
| 2,4-Dinitrophenol | 0.887 | U | 0.399 | 0.378 | 45.0 | 42.6 | 2 | 10.0-121 | J | J | 5.50 | 40 |
| 2-Nitrophenol | 0.887 | U | 0.499 | 0.552 | 56.3 | 62.2 | 2 | 12.0-120 | J | J | 9.91 | 39 |
| 4-Nitrophenol | 0.887 | U | 0.576 | 0.625 | 64.9 | 70.5 | 2 | 10.0-137 | J | J | 8.23 | 32 |
| Pentachlorophenol | 0.887 | U | 0.618 | 0.641 | 69.7 | 72.3 | 2 | 10.0-160 | J | J | 3.61 | 31 |
| Phenol | 0.887 | U | 0.449 | 0.465 | 50.6 | 52.4 | 2 | 12.0-120 | J | J | 3.51 | 38 |
| 2,4,6-Trichlorophenol | 0.887 | U | 0.544 | 0.598 | 61.3 | 67.5 | 2 | 19.0-120 | J | J | 9.59 | 32 |
| *(S) 2-Fluorophenol* | | | | | *59.0* | *61.9* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *53.2* | *57.8* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *42.8* | *48.8* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *53.0* | *59.6* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *66.7* | *67.5* | | *10.0-127* | | | | |

## L1740925-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740925-22 06/06/24 21:13 • (MS) R4078668-3 06/06/24 21:33 • (MSD) R4078668-4 06/06/24 21:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *66.9* | *67.2* | | *10.0-120* | | | | |

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure.

## Method Blank (MB)

(MB) R4078745-2 06/07/24 11:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4078745-2 06/07/24 11:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *61.3* | | | *12.0-120* |
| *(S) Phenol-d5* | *55.6* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *52.6* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *61.9* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *65.9* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *68.8* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078745-1 06/07/24 10:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.466 | 70.0 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.486 | 73.0 | 40.0-120 | |
| Anthracene | 0.666 | 0.489 | 73.4 | 42.0-120 | |
| Benzidine | 1.33 | 0.512 | 38.5 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.508 | 76.3 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.500 | 75.1 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.512 | 76.9 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.529 | 79.4 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.516 | 77.5 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.372 | 55.9 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.422 | 63.4 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078745-1 06/07/24 10:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.414 | 62.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.507 | 76.1 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.455 | 68.3 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.505 | 75.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.493 | 74.0 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.552 | 82.9 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.421 | 63.2 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.411 | 61.7 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.408 | 61.3 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.930 | 69.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.571 | 85.7 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.527 | 79.1 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.502 | 75.4 | 44.0-120 | |
| Fluorene | 0.666 | 0.487 | 73.1 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.500 | 75.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.382 | 57.4 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.498 | 74.8 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.402 | 60.4 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.502 | 75.4 | 45.0-120 | |
| Isophorone | 0.666 | 0.367 | 55.1 | 23.0-120 | |
| Naphthalene | 0.666 | 0.356 | 53.5 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.359 | 53.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.378 | 56.8 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.480 | 72.1 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.429 | 64.4 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.477 | 71.6 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.506 | 76.0 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.517 | 77.6 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.493 | 74.0 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.485 | 72.8 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.483 | 72.5 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.523 | 78.5 | 40.0-120 | |
| Pyrene | 0.666 | 0.496 | 74.5 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.378 | 56.8 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.380 | 57.1 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.459 | 68.9 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.392 | 58.9 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.440 | 66.1 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.554 | 83.2 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.517 | 77.6 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078745-1 06/07/24 10:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.444 | 66.7 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.545 | 81.8 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.507 | 76.1 | 29.0-120 | |
| Phenol | 0.666 | 0.424 | 63.7 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.477 | 71.6 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *69.1* | *12.0-120* | |
| *(S) Phenol-d5* | | | *62.5* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *46.8* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *68.5* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *85.1* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *73.6* | *10.0-120* | |

## L1742002-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742002-01 06/07/24 12:37 • (MS) R4078745-3 06/07/24 12:59 • (MSD) R4078745-4 06/07/24 13:20

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.765 | 0.327 | 0.790 | 1.05 | 60.6 | 95.4 | 2 | 18.0-120 | | | 28.4 | 32 |
| Acenaphthylene | 0.765 | 0.0167 | 0.535 | 0.546 | 67.8 | 69.6 | 2 | 25.0-120 | | | 2.02 | 32 |
| Anthracene | 0.765 | 0.690 | 1.09 | 1.49 | 52.7 | 105 | 2 | 22.0-120 | | J3 | 30.7 | 29 |
| Benzidine | 1.53 | U | 0.442 | 0.565 | 29.0 | 37.1 | 2 | 10.0-120 | J | J | 24.5 | 40 |
| Benzo(a)anthracene | 0.765 | 1.80 | 2.03 | 2.77 | 30.1 | 127 | 2 | 25.0-120 | | J3 J5 | 30.7 | 29 |
| Benzo(b)fluoranthene | 0.765 | 2.35 | 2.64 | 3.62 | 38.0 | 167 | 2 | 19.0-122 | | J3 J5 | 31.3 | 31 |
| Benzo(k)fluoranthene | 0.765 | 0.830 | 1.22 | 1.69 | 51.3 | 114 | 2 | 23.0-120 | | J3 | 32.4 | 30 |
| Benzo(g,h,i)perylene | 0.765 | 0.531 | 0.858 | 0.827 | 42.7 | 38.9 | 2 | 10.0-120 | | | 3.74 | 33 |
| Benzo(a)pyrene | 0.765 | 1.54 | 1.90 | 2.57 | 47.5 | 135 | 2 | 24.0-120 | | J5 | 29.8 | 30 |
| Bis(2-chlorethoxy)methane | 0.765 | U | 0.433 | 0.445 | 56.6 | 58.6 | 2 | 10.0-120 | J | J | 2.75 | 34 |
| Bis(2-chloroethyl)ether | 0.765 | U | 0.502 | 0.504 | 65.7 | 66.2 | 2 | 10.0-120 | J | J | 0.241 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.765 | U | 0.442 | 0.455 | 57.8 | 59.9 | 2 | 10.0-120 | J | J | 2.97 | 40 |
| 4-Bromophenyl-phenylether | 0.765 | U | 0.558 | 0.596 | 72.9 | 78.3 | 2 | 27.0-120 | J | J | 6.51 | 30 |
| 2-Chloronaphthalene | 0.765 | U | 0.495 | 0.499 | 64.7 | 65.6 | 2 | 20.0-120 | | | 0.731 | 32 |
| 4-Chlorophenyl-phenylether | 0.765 | U | 0.563 | 0.560 | 73.6 | 73.7 | 2 | 24.0-120 | J | J | 0.431 | 29 |
| Chrysene | 0.765 | 1.40 | 1.96 | 2.68 | 72.8 | 167 | 2 | 21.0-120 | | J3 J5 | 30.8 | 29 |
| Dibenz(a,h)anthracene | 0.765 | 0.136 | 0.499 | 0.482 | 47.5 | 45.5 | 2 | 10.0-120 | | | 3.46 | 32 |
| 1,2-Dichlorobenzene | 0.765 | U | 0.442 | 0.451 | 57.8 | 59.4 | 2 | 10.0-120 | J | J | 2.17 | 38 |
| 1,3-Dichlorobenzene | 0.765 | U | 0.425 | 0.435 | 55.5 | 57.2 | 2 | 10.0-120 | J | J | 2.25 | 40 |
| 1,4-Dichlorobenzene | 0.765 | U | 0.431 | 0.438 | 56.3 | 57.6 | 2 | 10.0-120 | J | J | 1.67 | 39 |
| 3,3-Dichlorobenzidine | 1.53 | U | 1.02 | 1.09 | 66.8 | 71.6 | 2 | 10.0-120 | | | 6.88 | 34 |
| 2,4-Dinitrotoluene | 0.765 | U | 0.634 | 0.646 | 82.9 | 85.0 | 2 | 30.0-120 | J | J | 1.89 | 31 |

# WG2299143

# QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L1741416-32

## L1742002-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742002-01 06/07/24 12:37 • (MS) R4078745-3 06/07/24 12:59 • (MSD) R4078745-4 06/07/24 13:20

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.765 | U | 0.574 | 0.593 | 75.0 | 78.0 | 2 | 25.0-120 | J | J | 3.32 | 31 |
| Fluoranthene | 0.765 | 3.95 | 3.53 | 5.12 | 0.000 | 154 | 2 | 18.0-126 | V | E J3 V | 36.6 | 32 |
| Fluorene | 0.765 | 0.235 | 0.753 | 0.938 | 67.7 | 92.5 | 2 | 25.0-120 | | | 21.9 | 30 |
| Hexachlorobenzene | 0.765 | U | 0.550 | 0.591 | 71.8 | 77.7 | 2 | 27.0-120 | J | J | 7.22 | 28 |
| Hexachloro-1,3-butadiene | 0.765 | U | 0.445 | 0.466 | 58.2 | 61.3 | 2 | 10.0-120 | J | J | 4.52 | 38 |
| Hexachlorocyclopentadiene | 0.765 | U | 0.134 | 0.156 | 17.6 | 20.5 | 2 | 10.0-120 | J | J | 15.0 | 40 |
| Hexachloroethane | 0.765 | U | 0.316 | 0.428 | 41.3 | 56.4 | 2 | 10.0-120 | J | J | 30.2 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.765 | 0.594 | 0.960 | 0.980 | 47.8 | 50.8 | 2 | 10.0-120 | | | 2.12 | 32 |
| Isophorone | 0.765 | U | 0.424 | 0.443 | 55.4 | 58.3 | 2 | 13.0-120 | J | J | 4.47 | 34 |
| Naphthalene | 0.765 | 0.0956 | 0.501 | 0.556 | 53.0 | 60.5 | 2 | 10.0-120 | | | 10.3 | 35 |
| Nitrobenzene | 0.765 | U | 0.431 | 0.435 | 56.3 | 57.2 | 2 | 10.0-120 | J | J | 0.839 | 36 |
| n-Nitrosodimethylamine | 0.765 | U | 0.384 | 0.408 | 50.2 | 53.7 | 2 | 10.0-127 | J | J | 6.12 | 40 |
| n-Nitrosodiphenylamine | 0.765 | U | 0.529 | 0.560 | 69.1 | 73.7 | 2 | 17.0-120 | J | J | 5.78 | 29 |
| n-Nitrosodi-n-propylamine | 0.765 | U | 0.471 | 0.477 | 61.6 | 62.7 | 2 | 10.0-120 | J | J | 1.28 | 37 |
| Phenanthrene | 0.765 | 2.68 | 2.52 | 3.86 | 0.000 | 156 | 2 | 17.0-120 | J6 | E J3 J5 | 42.1 | 31 |
| Benzylbutyl phthalate | 0.765 | U | 0.551 | 0.626 | 72.0 | 82.3 | 2 | 23.0-120 | J | J | 12.8 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.765 | 0.161 | 0.580 | 0.634 | 54.7 | 62.3 | 2 | 17.0-126 | J | J | 8.97 | 30 |
| Di-n-butyl phthalate | 0.765 | U | 0.520 | 0.554 | 68.0 | 72.9 | 2 | 30.0-120 | J | J | 6.31 | 29 |
| Diethyl phthalate | 0.765 | U | 0.533 | 0.562 | 69.6 | 73.9 | 2 | 26.0-120 | J | J | 5.31 | 28 |
| Dimethyl phthalate | 0.765 | U | 0.512 | 0.528 | 66.9 | 69.4 | 2 | 25.0-120 | J | J | 3.03 | 29 |
| Di-n-octyl phthalate | 0.765 | U | 0.570 | 0.605 | 74.5 | 79.6 | 2 | 21.0-123 | J | J | 5.97 | 29 |
| Pyrene | 0.765 | 3.18 | 3.10 | 4.41 | 0.000 | 161 | 2 | 16.0-121 | V | E J3 V | 34.8 | 32 |
| 1,2,4-Trichlorobenzene | 0.765 | U | 0.447 | 0.459 | 58.4 | 60.4 | 2 | 12.0-120 | J | J | 2.67 | 37 |
| 4-Chloro-3-methylphenol | 0.765 | U | 0.474 | 0.482 | 62.0 | 63.4 | 2 | 15.0-120 | J | J | 1.52 | 30 |
| 2-Chlorophenol | 0.765 | U | 0.471 | 0.488 | 61.6 | 64.2 | 2 | 15.0-120 | J | J | 3.54 | 37 |
| 2,4-Dichlorophenol | 0.765 | U | 0.439 | 0.435 | 57.4 | 57.2 | 2 | 20.0-120 | J | J | 1.11 | 31 |
| 2,4-Dimethylphenol | 0.765 | U | 0.535 | 0.546 | 69.9 | 71.8 | 2 | 10.0-120 | J | J | 2.02 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.765 | U | 0.620 | 0.626 | 81.0 | 82.3 | 2 | 10.0-120 | J | J | 0.972 | 39 |
| 2,4-Dinitrophenol | 0.765 | U | 0.743 | 0.737 | 97.2 | 97.0 | 2 | 10.0-121 | J | J | 0.818 | 40 |
| 2-Nitrophenol | 0.765 | U | 0.441 | 0.414 | 57.6 | 54.5 | 2 | 12.0-120 | J | J | 6.23 | 39 |
| 4-Nitrophenol | 0.765 | U | 0.468 | 0.447 | 61.2 | 58.8 | 2 | 10.0-137 | J | J | 4.76 | 32 |
| Pentachlorophenol | 0.765 | U | 0.171 | 0.153 | 22.3 | 20.1 | 2 | 10.0-160 | J | J | 11.2 | 31 |
| Phenol | 0.765 | U | 0.476 | 0.479 | 62.2 | 63.1 | 2 | 12.0-120 | J | J | 0.760 | 38 |
| 2,4,6-Trichlorophenol | 0.765 | U | 0.367 | 0.277 | 47.9 | 36.5 | 2 | 19.0-120 | J | J | 27.8 | 32 |
| *(S) 2-Fluorophenol* | | | | | *61.7* | *64.0* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *61.1* | *63.4* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *49.1* | *51.3* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *65.8* | *68.2* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *52.4* | *41.1* | | *10.0-127* | | | | |

## L1742002-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742002-01 06/07/24 12:37 • (MS) R4078745-3 06/07/24 12:59 • (MSD) R4078745-4 06/07/24 13:20

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| *(S) p-Terphenyl-d14* | | | | | *69.0* | *76.8* | | *10.0-120* | | | | |

**Sample Narrative:**

OS: Dilution due to matrix impact during extract concentration procedure.

# QUALITY CONTROL SUMMARY

L1741416-13

## Method Blank (MB)

(MB) R4080658-2 06/11/24 18:22

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4080658-2 06/11/24 18:22

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *61.9* | | | *12.0-120* |
| *(S) Phenol-d5* | *55.1* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *50.5* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *59.5* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *60.5* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *63.7* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4080658-1 06/11/24 18:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.441 | 66.2 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.464 | 69.7 | 40.0-120 | |
| Anthracene | 0.666 | 0.460 | 69.1 | 42.0-120 | |
| Benzidine | 1.33 | 0.446 | 33.5 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.481 | 72.2 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.487 | 73.1 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.492 | 73.9 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.500 | 75.1 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.492 | 73.9 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.369 | 55.4 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.372 | 55.9 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4080658-1 06/11/24 18:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.419 | 62.9 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.490 | 73.6 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.442 | 66.4 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.477 | 71.6 | 40.0-120 | |
| Chrysene | 0.666 | 0.469 | 70.4 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.496 | 74.5 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.442 | 66.4 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.421 | 63.2 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.420 | 63.1 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.890 | 66.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.546 | 82.0 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.494 | 74.2 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.481 | 72.2 | 44.0-120 | |
| Fluorene | 0.666 | 0.462 | 69.4 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.482 | 72.4 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.405 | 60.8 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.470 | 70.6 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.413 | 62.0 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.472 | 70.9 | 45.0-120 | |
| Isophorone | 0.666 | 0.361 | 54.2 | 23.0-120 | |
| Naphthalene | 0.666 | 0.367 | 55.1 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.363 | 54.5 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.382 | 57.4 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.445 | 66.8 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.424 | 63.7 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.453 | 68.0 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.470 | 70.6 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.482 | 72.4 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.460 | 69.1 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.460 | 69.1 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.456 | 68.5 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.482 | 72.4 | 40.0-120 | |
| Pyrene | 0.666 | 0.470 | 70.6 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.385 | 57.8 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.375 | 56.3 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.459 | 68.9 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.395 | 59.3 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.435 | 65.3 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.553 | 83.0 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.541 | 81.2 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4080658-1 06/11/24 18:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.462 | 69.4 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.506 | 76.0 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.477 | 71.6 | 29.0-120 | |
| Phenol | 0.666 | 0.432 | 64.9 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.474 | 71.2 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *71.3* | *12.0-120* | |
| *(S) Phenol-d5* | | | *64.3* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *59.2* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *67.9* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *82.6* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *71.2* | *10.0-120* | |

# QUALITY CONTROL SUMMARY

L1741416-14,19,23,24,28,29,34

## Method Blank (MB)

(MB) R4079830-2 06/11/24 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

# QUALITY CONTROL SUMMARY

L1741416-14,19,23,24,28,29,34

## Method Blank (MB)

(MB) R4079830-2 06/11/24 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *57.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *50.5* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *51.1* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *57.4* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *33.8* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *57.7* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.478 | 71.8 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.512 | 76.9 | 40.0-120 | |
| Anthracene | 0.666 | 0.501 | 75.2 | 42.0-120 | |
| Benzidine | 1.33 | 0.457 | 34.4 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.529 | 79.4 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.499 | 74.9 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.502 | 75.4 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.447 | 67.1 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.516 | 77.5 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.384 | 57.7 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.528 | 79.3 | 16.0-120 | |

# QUALITY CONTROL SUMMARY

L1741416-14,19,23,24,28,29,34

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.453 | 68.0 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.384 | 57.7 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.464 | 69.7 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.485 | 72.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.527 | 79.1 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.453 | 68.0 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.451 | 67.7 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.422 | 63.4 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.422 | 63.4 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.791 | 59.5 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.558 | 83.8 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.571 | 85.7 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.467 | 70.1 | 44.0-120 | |
| Fluorene | 0.666 | 0.497 | 74.6 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.316 | 47.4 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.391 | 58.7 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.334 | 50.2 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.416 | 62.5 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.427 | 64.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.404 | 60.7 | 23.0-120 | |
| Naphthalene | 0.666 | 0.377 | 56.6 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.379 | 56.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.377 | 56.6 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.450 | 67.6 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.481 | 72.2 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.493 | 74.0 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.643 | 96.5 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.656 | 98.5 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.501 | 75.2 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.540 | 81.1 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.531 | 79.7 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.633 | 95.0 | 40.0-120 | |
| Pyrene | 0.666 | 0.580 | 87.1 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.394 | 59.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.399 | 59.9 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.480 | 72.1 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.404 | 60.7 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.449 | 67.4 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.603 | 90.5 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.490 | 73.6 | 10.0-120 | |

# QUALITY CONTROL SUMMARY

L1741416-14,19,23,24,28,29,34

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.470 | 70.6 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.625 | 93.8 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.353 | 53.0 | 29.0-120 | |
| Phenol | 0.666 | 0.418 | 62.8 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.479 | 71.9 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *72.8* | *12.0-120* | |
| *(S) Phenol-d5* | | | *63.8* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *52.9* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *73.6* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *43.7* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *70.0* | *10.0-120* | |

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.809 | U | 0.414 | 0.396 | 51.2 | 48.6 | 1 | 18.0-120 | | | 4.59 | 32 |
| Acenaphthylene | 0.809 | U | 0.453 | 0.430 | 56.0 | 52.9 | 1 | 25.0-120 | | | 5.06 | 32 |
| Anthracene | 0.809 | U | 0.458 | 0.442 | 56.6 | 54.3 | 1 | 22.0-120 | | | 3.59 | 29 |
| Benzidine | 1.61 | U | 0.165 | 0.159 | 10.2 | 9.77 | 1 | 10.0-120 | J | J J6 | 3.83 | 40 |
| Benzo(a)anthracene | 0.809 | U | 0.474 | 0.445 | 58.6 | 54.7 | 1 | 25.0-120 | | | 6.21 | 29 |
| Benzo(b)fluoranthene | 0.809 | U | 0.452 | 0.419 | 55.8 | 51.5 | 1 | 19.0-122 | | | 7.41 | 31 |
| Benzo(k)fluoranthene | 0.809 | U | 0.447 | 0.423 | 55.2 | 52.0 | 1 | 23.0-120 | | | 5.42 | 30 |
| Benzo(g,h,i)perylene | 0.809 | U | 0.403 | 0.375 | 49.8 | 46.0 | 1 | 10.0-120 | | | 7.34 | 33 |
| Benzo(a)pyrene | 0.809 | U | 0.454 | 0.434 | 56.1 | 53.4 | 1 | 24.0-120 | | | 4.47 | 30 |
| Bis(2-chlorethoxy)methane | 0.809 | U | 0.356 | 0.345 | 44.0 | 42.4 | 1 | 10.0-120 | J | J | 3.19 | 34 |
| Bis(2-chloroethyl)ether | 0.809 | U | 0.489 | 0.459 | 60.4 | 56.4 | 1 | 10.0-120 | | | 6.28 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.809 | U | 0.397 | 0.382 | 49.1 | 47.0 | 1 | 10.0-120 | J | J | 3.82 | 40 |
| 4-Bromophenyl-phenylether | 0.809 | U | 0.349 | 0.344 | 43.1 | 42.2 | 1 | 27.0-120 | J | J | 1.43 | 30 |
| 2-Chloronaphthalene | 0.809 | U | 0.408 | 0.386 | 50.5 | 47.4 | 1 | 20.0-120 | | | 5.63 | 32 |
| 4-Chlorophenyl-phenylether | 0.809 | U | 0.433 | 0.429 | 53.5 | 52.7 | 1 | 24.0-120 | | | 0.863 | 29 |
| Chrysene | 0.809 | U | 0.480 | 0.449 | 59.4 | 55.2 | 1 | 21.0-120 | | | 6.68 | 29 |
| Dibenz(a,h)anthracene | 0.809 | U | 0.396 | 0.373 | 48.9 | 45.9 | 1 | 10.0-120 | | | 5.81 | 32 |
| 1,2-Dichlorobenzene | 0.809 | U | 0.414 | 0.397 | 51.2 | 48.8 | 1 | 10.0-120 | | J | 4.28 | 38 |
| 1,3-Dichlorobenzene | 0.809 | U | 0.388 | 0.375 | 48.0 | 46.0 | 1 | 10.0-120 | J | J | 3.58 | 40 |
| 1,4-Dichlorobenzene | 0.809 | U | 0.398 | 0.378 | 49.2 | 46.5 | 1 | 10.0-120 | J | J | 5.11 | 39 |
| 3,3-Dichlorobenzidine | 1.61 | U | 0.579 | 0.504 | 35.9 | 31.0 | 1 | 10.0-120 | | | 14.0 | 34 |
| 2,4-Dinitrotoluene | 0.809 | U | 0.501 | 0.481 | 62.0 | 59.1 | 1 | 30.0-120 | | | 4.04 | 31 |

# QUALITY CONTROL SUMMARY

L1741416-14,19,23,24,28,29,34

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.809 | U | 0.515 | 0.486 | 63.7 | 59.8 | 1 | 25.0-120 | | | 5.70 | 31 |
| Fluoranthene | 0.809 | U | 0.425 | 0.413 | 52.6 | 50.8 | 1 | 18.0-126 | | | 2.96 | 32 |
| Fluorene | 0.809 | U | 0.453 | 0.428 | 56.0 | 52.6 | 1 | 25.0-120 | | | 5.63 | 30 |
| Hexachlorobenzene | 0.809 | U | 0.290 | 0.280 | 35.9 | 34.5 | 1 | 27.0-120 | J | J | 3.48 | 28 |
| Hexachloro-1,3-butadiene | 0.809 | U | 0.367 | 0.354 | 45.4 | 43.4 | 1 | 10.0-120 | J | J | 3.79 | 38 |
| Hexachlorocyclopentadiene | 0.809 | U | 0.284 | 0.258 | 35.1 | 31.7 | 1 | 10.0-120 | J | J | 9.61 | 40 |
| Hexachloroethane | 0.809 | U | 0.376 | 0.363 | 46.5 | 44.7 | 1 | 10.0-120 | J | J | 3.36 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.809 | U | 0.382 | 0.362 | 47.2 | 44.5 | 1 | 10.0-120 | | | 5.33 | 32 |
| Isophorone | 0.809 | U | 0.377 | 0.368 | 46.6 | 45.3 | 1 | 13.0-120 | J | J | 2.33 | 34 |
| Naphthalene | 0.809 | U | 0.358 | 0.345 | 44.3 | 42.4 | 1 | 10.0-120 | | | 3.88 | 35 |
| Nitrobenzene | 0.809 | U | 0.358 | 0.347 | 44.3 | 42.7 | 1 | 10.0-120 | J | J | 3.16 | 36 |
| n-Nitrosodimethylamine | 0.809 | U | 0.376 | 0.342 | 46.5 | 42.1 | 1 | 10.0-127 | J | J | 9.33 | 40 |
| n-Nitrosodiphenylamine | 0.809 | U | 0.360 | 0.342 | 44.5 | 42.1 | 1 | 17.0-120 | J | J | 4.95 | 29 |
| n-Nitrosodi-n-propylamine | 0.809 | U | 0.439 | 0.423 | 54.3 | 52.0 | 1 | 10.0-120 | | | 3.74 | 37 |
| Phenanthrene | 0.809 | U | 0.443 | 0.438 | 54.8 | 53.8 | 1 | 17.0-120 | | | 1.13 | 31 |
| Benzylbutyl phthalate | 0.809 | U | 0.604 | 0.561 | 74.7 | 68.9 | 1 | 23.0-120 | | | 7.45 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.809 | U | 0.594 | 0.561 | 73.5 | 68.9 | 1 | 17.0-126 | | | 5.80 | 30 |
| Di-n-butyl phthalate | 0.809 | U | 0.452 | 0.440 | 55.8 | 54.1 | 1 | 30.0-120 | | | 2.50 | 29 |
| Diethyl phthalate | 0.809 | U | 0.483 | 0.466 | 59.7 | 57.3 | 1 | 26.0-120 | | | 3.40 | 28 |
| Dimethyl phthalate | 0.809 | U | 0.464 | 0.450 | 57.4 | 55.3 | 1 | 25.0-120 | | | 2.99 | 29 |
| Di-n-octyl phthalate | 0.809 | U | 0.595 | 0.552 | 73.6 | 67.8 | 1 | 21.0-123 | | | 7.57 | 29 |
| Pyrene | 0.809 | U | 0.516 | 0.492 | 63.8 | 60.5 | 1 | 16.0-121 | | | 4.67 | 32 |
| 1,2,4-Trichlorobenzene | 0.809 | U | 0.366 | 0.356 | 45.2 | 43.8 | 1 | 12.0-120 | J | J | 2.75 | 37 |
| 4-Chloro-3-methylphenol | 0.809 | U | 0.371 | 0.355 | 45.9 | 43.6 | 1 | 15.0-120 | J | J | 4.44 | 30 |
| 2-Chlorophenol | 0.809 | U | 0.434 | 0.407 | 53.7 | 50.0 | 1 | 15.0-120 | | J | 6.49 | 37 |
| 2,4-Dichlorophenol | 0.809 | U | 0.371 | 0.371 | 45.9 | 45.6 | 1 | 20.0-120 | J | J | 0.000 | 31 |
| 2,4-Dimethylphenol | 0.809 | U | 0.357 | 0.357 | 44.2 | 43.9 | 1 | 10.0-120 | J | J | 0.000 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.809 | U | 0.708 | 0.685 | 87.6 | 84.1 | 1 | 10.0-120 | | | 3.38 | 39 |
| 2,4-Dinitrophenol | 0.809 | U | 0.781 | 0.750 | 96.6 | 92.2 | 1 | 10.0-121 | | | 4.05 | 40 |
| 2-Nitrophenol | 0.809 | U | 0.455 | 0.434 | 56.3 | 53.4 | 1 | 12.0-120 | | | 4.74 | 39 |
| 4-Nitrophenol | 0.809 | U | 0.628 | 0.567 | 77.6 | 69.7 | 1 | 10.0-137 | | | 10.2 | 32 |
| Pentachlorophenol | 0.809 | U | 0.404 | 0.391 | 50.0 | 48.0 | 1 | 10.0-160 | J | J | 3.43 | 31 |
| Phenol | 0.809 | U | 0.373 | 0.370 | 46.2 | 45.4 | 1 | 12.0-120 | J | J | 1.00 | 38 |
| 2,4,6-Trichlorophenol | 0.809 | U | 0.425 | 0.438 | 52.6 | 53.8 | 1 | 19.0-120 | | | 2.87 | 32 |
| *(S) 2-Fluorophenol* | | | | | *54.4* | *51.1* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *46.0* | *45.1* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *41.7* | *40.2* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *51.5* | *48.2* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *33.3* | *32.6* | | *10.0-127* | | | | |

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *51.2* | *47.6* | | *10.0-120* | | | | |

## Method Blank (MB)

(MB) R4080581-2 06/11/24 23:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

# QUALITY CONTROL SUMMARY

L1741416-33

## Method Blank (MB)

(MB) R4080581-2 06/11/24 23:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *82.1* | | | *12.0-120* |
| *(S) Phenol-d5* | *79.0* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *77.2* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *73.9* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *65.5* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *76.3* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4080581-1 06/11/24 22:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.560 | 84.1 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.548 | 82.3 | 40.0-120 | |
| Anthracene | 0.666 | 0.557 | 83.6 | 42.0-120 | |
| Benzidine | 1.33 | 0.683 | 51.4 | 10.0-120 | J4 |
| Benzo(a)anthracene | 0.666 | 0.616 | 92.5 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.599 | 89.9 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.583 | 87.5 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.580 | 87.1 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.606 | 91.0 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.481 | 72.2 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 1.13 | 170 | 16.0-120 | J4 |

## Laboratory Control Sample (LCS)

(LCS) R4080581-1 06/11/24 22:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.494 | 74.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.570 | 85.6 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.501 | 75.2 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.629 | 94.4 | 40.0-120 | |
| Chrysene | 0.666 | 0.598 | 89.8 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.582 | 87.4 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.513 | 77.0 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.494 | 74.2 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.501 | 75.2 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.25 | 94.0 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.683 | 103 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.635 | 95.3 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.614 | 92.2 | 44.0-120 | |
| Fluorene | 0.666 | 0.600 | 90.1 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.540 | 81.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.541 | 81.2 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.365 | 54.8 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.499 | 74.9 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.571 | 85.7 | 45.0-120 | |
| Isophorone | 0.666 | 0.500 | 75.1 | 23.0-120 | |
| Naphthalene | 0.666 | 0.443 | 66.5 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.498 | 74.8 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.349 | 52.4 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.507 | 76.1 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.537 | 80.6 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.547 | 82.1 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.677 | 102 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.669 | 100 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.571 | 85.7 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.605 | 90.8 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.588 | 88.3 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.700 | 105 | 40.0-120 | |
| Pyrene | 0.666 | 0.637 | 95.6 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.494 | 74.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.537 | 80.6 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.562 | 84.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.527 | 79.1 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.605 | 90.8 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.631 | 94.7 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.545 | 81.8 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4080581-1 06/11/24 22:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.522 | 78.4 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.506 | 76.0 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.406 | 61.0 | 29.0-120 | |
| Phenol | 0.666 | 0.578 | 86.8 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.546 | 82.0 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *93.5* | *12.0-120* | |
| *(S) Phenol-d5* | | | *90.7* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *71.2* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *83.5* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *82.1* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *92.2* | *10.0-120* | |

## L1744090-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1744090-06 06/11/24 23:45 • (MS) R4080581-3 06/12/24 00:05 • (MSD) R4080581-4 06/12/24 00:25

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.723 | U | 0.479 | 0.444 | 66.2 | 61.5 | 1 | 18.0-120 | | | 7.64 | 32 |
| Acenaphthylene | 0.723 | U | 0.487 | 0.433 | 67.3 | 60.1 | 1 | 25.0-120 | | | 11.6 | 32 |
| Anthracene | 0.723 | U | 0.505 | 0.438 | 69.8 | 60.7 | 1 | 22.0-120 | | | 14.2 | 29 |
| Benzidine | 1.44 | U | 0.232 | 0.373 | 16.1 | 25.8 | 1 | 10.0-120 | J | J J3 | 46.6 | 40 |
| Benzo(a)anthracene | 0.723 | U | 0.541 | 0.458 | 74.8 | 63.6 | 1 | 25.0-120 | | | 16.6 | 29 |
| Benzo(b)fluoranthene | 0.723 | U | 0.528 | 0.450 | 73.0 | 62.5 | 1 | 19.0-122 | | | 15.8 | 31 |
| Benzo(k)fluoranthene | 0.723 | U | 0.520 | 0.442 | 71.9 | 61.4 | 1 | 23.0-120 | | | 16.1 | 30 |
| Benzo(g,h,i)perylene | 0.723 | U | 0.519 | 0.450 | 71.7 | 62.5 | 1 | 10.0-120 | | | 14.1 | 33 |
| Benzo(a)pyrene | 0.723 | U | 0.539 | 0.465 | 74.5 | 64.5 | 1 | 24.0-120 | | | 14.7 | 30 |
| Bis(2-chlorethoxy)methane | 0.723 | U | 0.429 | 0.380 | 59.3 | 52.7 | 1 | 10.0-120 | | | 12.1 | 34 |
| Bis(2-chloroethyl)ether | 0.723 | U | 0.570 | 0.354 | 78.8 | 49.1 | 1 | 10.0-120 | | J J3 | 46.8 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.723 | U | 0.415 | 0.375 | 57.4 | 52.1 | 1 | 10.0-120 | | J | 10.1 | 40 |
| 4-Bromophenyl-phenylether | 0.723 | U | 0.504 | 0.449 | 69.7 | 62.3 | 1 | 27.0-120 | | | 11.5 | 30 |
| 2-Chloronaphthalene | 0.723 | U | 0.441 | 0.399 | 61.0 | 55.4 | 1 | 20.0-120 | | | 10.0 | 32 |
| 4-Chlorophenyl-phenylether | 0.723 | U | 0.560 | 0.488 | 77.4 | 67.7 | 1 | 24.0-120 | | | 13.7 | 29 |
| Chrysene | 0.723 | U | 0.527 | 0.440 | 72.8 | 61.0 | 1 | 21.0-120 | | | 17.9 | 29 |
| Dibenz(a,h)anthracene | 0.723 | U | 0.528 | 0.458 | 73.0 | 63.6 | 1 | 10.0-120 | | | 14.1 | 32 |
| 1,2-Dichlorobenzene | 0.723 | U | 0.431 | 0.386 | 59.6 | 53.5 | 1 | 10.0-120 | | | 11.1 | 38 |
| 1,3-Dichlorobenzene | 0.723 | U | 0.415 | 0.375 | 57.4 | 52.1 | 1 | 10.0-120 | | J | 10.1 | 40 |
| 1,4-Dichlorobenzene | 0.723 | U | 0.432 | 0.372 | 59.7 | 51.6 | 1 | 10.0-120 | | J | 15.0 | 39 |
| 3,3-Dichlorobenzidine | 1.44 | U | 1.10 | 0.914 | 76.4 | 63.3 | 1 | 10.0-120 | | | 18.7 | 34 |
| 2,4-Dinitrotoluene | 0.723 | U | 0.590 | 0.520 | 81.6 | 72.1 | 1 | 30.0-120 | | | 12.7 | 31 |

# WG2302475

# QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L1741416-33

## L1744090-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1744090-06 06/11/24 23:45 • (MS) R4080581-3 06/12/24 00:05 • (MSD) R4080581-4 06/12/24 00:25

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.723 | U | 0.560 | 0.517 | 77.4 | 71.8 | 1 | 25.0-120 | | | 7.81 | 31 |
| Fluoranthene | 0.723 | U | 0.560 | 0.472 | 77.4 | 65.5 | 1 | 18.0-126 | | | 17.0 | 32 |
| Fluorene | 0.723 | U | 0.516 | 0.476 | 71.4 | 66.1 | 1 | 25.0-120 | | | 8.02 | 30 |
| Hexachlorobenzene | 0.723 | U | 0.487 | 0.434 | 67.3 | 60.3 | 1 | 27.0-120 | | | 11.4 | 28 |
| Hexachloro-1,3-butadiene | 0.723 | U | 0.480 | 0.434 | 66.4 | 60.3 | 1 | 10.0-120 | | | 9.95 | 38 |
| Hexachlorocyclopentadiene | 0.723 | U | 0.210 | 0.235 | 29.1 | 32.6 | 1 | 10.0-120 | J | J | 11.2 | 40 |
| Hexachloroethane | 0.723 | U | 0.458 | 0.380 | 63.4 | 52.7 | 1 | 10.0-120 | | | 18.7 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.723 | U | 0.517 | 0.457 | 71.5 | 63.4 | 1 | 10.0-120 | | | 12.4 | 32 |
| Isophorone | 0.723 | U | 0.457 | 0.409 | 63.2 | 56.8 | 1 | 13.0-120 | | | 11.0 | 34 |
| Naphthalene | 0.723 | U | 0.411 | 0.363 | 56.8 | 50.3 | 1 | 10.0-120 | | | 12.4 | 35 |
| Nitrobenzene | 0.723 | U | 0.444 | 0.409 | 61.3 | 56.8 | 1 | 10.0-120 | | | 8.00 | 36 |
| n-Nitrosodimethylamine | 0.723 | U | 0.298 | 0.247 | 41.2 | 34.2 | 1 | 10.0-127 | J | J | 18.8 | 40 |
| n-Nitrosodiphenylamine | 0.723 | U | 0.475 | 0.414 | 65.7 | 57.4 | 1 | 17.0-120 | | | 13.8 | 29 |
| n-Nitrosodi-n-propylamine | 0.723 | U | 0.464 | 0.415 | 64.2 | 57.6 | 1 | 10.0-120 | | | 11.1 | 37 |
| Phenanthrene | 0.723 | U | 0.497 | 0.428 | 68.7 | 59.3 | 1 | 17.0-120 | | | 15.0 | 31 |
| Benzylbutyl phthalate | 0.723 | U | 0.610 | 0.506 | 84.3 | 70.2 | 1 | 23.0-120 | | | 18.6 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.723 | U | 0.600 | 0.515 | 83.0 | 71.5 | 1 | 17.0-126 | | | 15.3 | 30 |
| Di-n-butyl phthalate | 0.723 | U | 0.514 | 0.444 | 71.1 | 61.5 | 1 | 30.0-120 | | | 14.7 | 29 |
| Diethyl phthalate | 0.723 | U | 0.537 | 0.474 | 74.2 | 65.8 | 1 | 26.0-120 | | | 12.4 | 28 |
| Dimethyl phthalate | 0.723 | U | 0.506 | 0.461 | 70.0 | 63.9 | 1 | 25.0-120 | | | 9.41 | 29 |
| Di-n-octyl phthalate | 0.723 | U | 0.621 | 0.511 | 85.8 | 70.8 | 1 | 21.0-123 | | | 19.5 | 29 |
| Pyrene | 0.723 | U | 0.552 | 0.473 | 76.3 | 65.6 | 1 | 16.0-121 | | | 15.3 | 32 |
| 1,2,4-Trichlorobenzene | 0.723 | U | 0.440 | 0.411 | 60.8 | 56.9 | 1 | 12.0-120 | | | 6.95 | 37 |
| 4-Chloro-3-methylphenol | 0.723 | U | 0.507 | 0.433 | 70.1 | 60.1 | 1 | 15.0-120 | | | 15.7 | 30 |
| 2-Chlorophenol | 0.723 | U | 0.498 | 0.430 | 68.9 | 59.6 | 1 | 15.0-120 | | | 14.7 | 37 |
| 2,4-Dichlorophenol | 0.723 | U | 0.478 | 0.424 | 66.0 | 58.8 | 1 | 20.0-120 | | | 11.9 | 31 |
| 2,4-Dimethylphenol | 0.723 | U | 0.554 | 0.494 | 76.6 | 68.5 | 1 | 10.0-120 | | | 11.5 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.723 | U | 0.553 | 0.522 | 76.4 | 72.4 | 1 | 10.0-120 | | | 5.71 | 39 |
| 2,4-Dinitrophenol | 0.723 | U | 0.515 | 0.530 | 71.2 | 73.5 | 1 | 10.0-121 | | | 2.83 | 40 |
| 2-Nitrophenol | 0.723 | U | 0.490 | 0.451 | 67.8 | 62.6 | 1 | 12.0-120 | | | 8.21 | 39 |
| 4-Nitrophenol | 0.723 | U | 0.482 | 0.425 | 66.7 | 59.0 | 1 | 10.0-137 | | | 12.5 | 32 |
| Pentachlorophenol | 0.723 | U | 0.497 | 0.405 | 68.7 | 56.2 | 1 | 10.0-160 | | | 20.4 | 31 |
| Phenol | 0.723 | U | 0.483 | 0.428 | 66.8 | 59.3 | 1 | 12.0-120 | | | 12.2 | 38 |
| 2,4,6-Trichlorophenol | 0.723 | U | 0.498 | 0.463 | 68.9 | 64.2 | 1 | 19.0-120 | | | 7.34 | 32 |
| *(S) 2-Fluorophenol* | | | | | *78.6* | *68.6* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *73.3* | *63.9* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *61.6* | *55.2* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *66.4* | *64.7* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *70.9* | *62.8* | | *10.0-127* | | | | |

## L1744090-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1744090-06 06/11/24 23:45 • (MS) R4080581-3 06/12/24 00:05 • (MSD) R4080581-4 06/12/24 00:25

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| *(S) p-Terphenyl-d14* | | | | | *76.1* | *63.4* | | *10.0-120* | | | | |

## Method Blank (MB)

(MB) R4081126-2 06/12/24 21:31

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

# QUALITY CONTROL SUMMARY

L1741416-35,36

## Method Blank (MB)

(MB) R4081126-2 06/12/24 21:31

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *66.8* | | | *12.0-120* |
| *(S) Phenol-d5* | *60.7* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *58.9* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *70.9* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *45.8* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *70.9* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4081126-1 06/12/24 21:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.445 | 66.8 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.488 | 73.3 | 40.0-120 | |
| Anthracene | 0.666 | 0.494 | 74.2 | 42.0-120 | |
| Benzidine | 1.33 | 0.436 | 32.8 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.525 | 78.8 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.500 | 75.1 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.512 | 76.9 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.448 | 67.3 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.518 | 77.8 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.355 | 53.3 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.378 | 56.8 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4081126-1 06/12/24 21:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.408 | 61.3 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.387 | 58.1 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.452 | 67.9 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.491 | 73.7 | 40.0-120 | |
| Chrysene | 0.666 | 0.532 | 79.9 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.448 | 67.3 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.444 | 66.7 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.426 | 64.0 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.432 | 64.9 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.803 | 60.4 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.556 | 83.5 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.555 | 83.3 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.468 | 70.3 | 44.0-120 | |
| Fluorene | 0.666 | 0.485 | 72.8 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.336 | 50.5 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.404 | 60.7 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.415 | 62.3 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.415 | 62.3 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.434 | 65.2 | 45.0-120 | |
| Isophorone | 0.666 | 0.381 | 57.2 | 23.0-120 | |
| Naphthalene | 0.666 | 0.367 | 55.1 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.364 | 54.7 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.348 | 52.3 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.452 | 67.9 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.438 | 65.8 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.480 | 72.1 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.632 | 94.9 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.639 | 95.9 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.498 | 74.8 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.539 | 80.9 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.504 | 75.7 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.629 | 94.4 | 40.0-120 | |
| Pyrene | 0.666 | 0.564 | 84.7 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.390 | 58.6 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.388 | 58.3 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.458 | 68.8 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.385 | 57.8 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.435 | 65.3 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.619 | 92.9 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.491 | 73.7 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4081126-1 06/12/24 21:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.458 | 68.8 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.616 | 92.5 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.385 | 57.8 | 29.0-120 | |
| Phenol | 0.666 | 0.384 | 57.7 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.497 | 74.6 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *71.8* | *12.0-120* | |
| *(S) Phenol-d5* | | | *61.9* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *51.1* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *71.8* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *51.5* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *73.9* | *10.0-120* | |

## L1741416-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-36 06/13/24 04:24 • (MS) R4081126-3 06/13/24 04:45 • (MSD) R4081126-4 06/13/24 05:06

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.859 | U | 0.804 | 0.699 | 93.6 | 81.0 | 20 | 18.0-120 | J | J | 14.0 | 32 |
| Acenaphthylene | 0.859 | U | 0.730 | 0.655 | 85.0 | 76.0 | 20 | 25.0-120 | J | J | 10.8 | 32 |
| Anthracene | 0.859 | U | 0.801 | 0.687 | 93.3 | 79.7 | 20 | 22.0-120 | J | J | 15.4 | 29 |
| Benzidine | 1.71 | U | 2.32 | 2.32 | 135 | 134 | 20 | 10.0-120 | J J5 | J J5 | 0.000 | 40 |
| Benzo(a)anthracene | 0.859 | U | 0.861 | 0.779 | 100 | 90.4 | 20 | 25.0-120 | J | J | 9.97 | 29 |
| Benzo(b)fluoranthene | 0.859 | U | 0.833 | 0.795 | 96.9 | 92.2 | 20 | 19.0-122 | J | J | 4.70 | 31 |
| Benzo(k)fluoranthene | 0.859 | U | 0.821 | 0.712 | 95.6 | 82.6 | 20 | 23.0-120 | J | J | 14.3 | 30 |
| Benzo(g,h,i)perylene | 0.859 | U | 0.538 | 0.467 | 62.6 | 54.1 | 20 | 10.0-120 | J | J | 14.2 | 33 |
| Benzo(a)pyrene | 0.859 | U | 0.782 | 0.717 | 91.0 | 83.2 | 20 | 24.0-120 | J | J | 8.62 | 30 |
| Bis(2-chlorethoxy)methane | 0.859 | U | 0.709 | 0.555 | 82.5 | 64.4 | 20 | 10.0-120 | J | J | 24.4 | 34 |
| Bis(2-chloroethyl)ether | 0.859 | U | U | 1.10 | 0.000 | 127 | 20 | 10.0-120 | J6 | J J3 J5 | 200 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.859 | U | U | 0.671 | 0.000 | 77.8 | 20 | 10.0-120 | J6 | J J3 | 200 | 40 |
| 4-Bromophenyl-phenylether | 0.859 | U | 0.670 | 0.589 | 77.9 | 68.3 | 20 | 27.0-120 | J | J | 12.8 | 30 |
| 2-Chloronaphthalene | 0.859 | U | 0.732 | 0.655 | 85.1 | 76.0 | 20 | 20.0-120 | J | J | 11.0 | 32 |
| 4-Chlorophenyl-phenylether | 0.859 | U | 0.837 | 0.716 | 97.4 | 83.0 | 20 | 24.0-120 | J | J | 15.6 | 29 |
| Chrysene | 0.859 | U | 0.919 | 0.833 | 107 | 96.6 | 20 | 21.0-120 | | J | 9.78 | 29 |
| Dibenz(a,h)anthracene | 0.859 | U | 0.575 | 0.507 | 66.9 | 58.9 | 20 | 10.0-120 | J | J | 12.4 | 32 |
| 1,2-Dichlorobenzene | 0.859 | U | 0.602 | 0.548 | 70.1 | 63.6 | 20 | 10.0-120 | J | J | 9.39 | 38 |
| 1,3-Dichlorobenzene | 0.859 | U | 0.580 | 0.510 | 67.5 | 59.2 | 20 | 10.0-120 | J | J | 12.8 | 40 |
| 1,4-Dichlorobenzene | 0.859 | U | 0.580 | 0.484 | 67.5 | 56.1 | 20 | 10.0-120 | J | J | 18.1 | 39 |
| 3,3-Dichlorobenzidine | 1.71 | U | 1.19 | 1.07 | 69.4 | 61.8 | 20 | 10.0-120 | J | J | 10.7 | 34 |
| 2,4-Dinitrotoluene | 0.859 | U | 0.770 | 0.671 | 89.6 | 77.8 | 20 | 30.0-120 | J | J | 13.7 | 31 |

# QUALITY CONTROL SUMMARY

L1741416-35,36

## L1741416-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-36 06/13/24 04:24 • (MS) R4081126-3 06/13/24 04:45 • (MSD) R4081126-4 06/13/24 05:06

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.859 | U | 0.836 | 0.712 | 97.2 | 82.6 | 20 | 25.0-120 | J | J | 16.0 | 31 |
| Fluoranthene | 0.859 | U | 0.836 | 0.730 | 97.2 | 84.7 | 20 | 18.0-126 | J | J | 13.5 | 32 |
| Fluorene | 0.859 | U | 0.907 | 0.776 | 106 | 90.1 | 20 | 25.0-120 | | J | 15.5 | 30 |
| Hexachlorobenzene | 0.859 | U | 0.587 | 0.497 | 68.3 | 57.6 | 20 | 27.0-120 | J | J | 16.5 | 28 |
| Hexachloro-1,3-butadiene | 0.859 | U | 0.725 | 0.672 | 84.4 | 78.0 | 20 | 10.0-120 | J | J | 7.55 | 38 |
| Hexachlorocyclopentadiene | 0.859 | U | U | U | 0.000 | 0.000 | 20 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Hexachloroethane | 0.859 | U | 1.25 | 1.23 | 145 | 143 | 20 | 10.0-120 | J J5 | J J5 | 0.957 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.859 | U | 0.518 | 0.494 | 60.3 | 57.3 | 20 | 10.0-120 | J | J | 4.69 | 32 |
| Isophorone | 0.859 | U | 1.83 | 1.99 | 213 | 231 | 20 | 13.0-120 | J J5 | J J5 | 8.28 | 34 |
| Naphthalene | 0.859 | 0.246 | 1.00 | 0.844 | 87.7 | 69.3 | 20 | 10.0-120 | | J | 17.0 | 35 |
| Nitrobenzene | 0.859 | U | 0.602 | 0.614 | 70.1 | 71.3 | 20 | 10.0-120 | J | J | 1.95 | 36 |
| n-Nitrosodimethylamine | 0.652 | U | U | U | 0.000 | 0.000 | 20 | 10.0-127 | J6 | J6 | 0.000 | 40 |
| n-Nitrosodiphenylamine | 0.859 | U | 0.783 | 0.792 | 91.1 | 91.9 | 20 | 17.0-120 | J | J | 1.17 | 29 |
| n-Nitrosodi-n-propylamine | 0.859 | U | U | 1.56 | 0.000 | 180 | 20 | 10.0-120 | J6 | J J3 J5 | 200 | 37 |
| Phenanthrene | 0.859 | 0.200 | 1.02 | 0.912 | 95.6 | 82.6 | 20 | 17.0-120 | | | 11.3 | 31 |
| Benzylbutyl phthalate | 0.859 | U | 0.995 | 0.913 | 116 | 106 | 20 | 23.0-120 | J | J | 8.56 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.652 | U | U | U | 0.000 | 0.000 | 20 | 17.0-126 | J6 | J6 | 0.000 | 30 |
| Di-n-butyl phthalate | 0.859 | U | 0.778 | 0.675 | 90.5 | 78.3 | 20 | 30.0-120 | J | J | 14.2 | 29 |
| Diethyl phthalate | 0.859 | U | 0.896 | 0.747 | 104 | 86.7 | 20 | 26.0-120 | J | J | 18.1 | 28 |
| Dimethyl phthalate | 0.859 | U | U | U | 91.7 | 76.3 | 20 | 25.0-120 | J | J | 18.0 | 29 |
| Di-n-octyl phthalate | 0.859 | U | 0.990 | 0.886 | 115 | 103 | 20 | 21.0-123 | J | J | 11.1 | 29 |
| Pyrene | 0.859 | U | 1.08 | 0.902 | 126 | 105 | 20 | 16.0-121 | J5 | | 18.3 | 32 |
| 1,2,4-Trichlorobenzene | 0.859 | U | 0.764 | 0.596 | 89.0 | 69.1 | 20 | 12.0-120 | J | J | 24.8 | 37 |
| 4-Chloro-3-methylphenol | 0.859 | U | 0.747 | 0.594 | 87.0 | 69.0 | 20 | 15.0-120 | J | J | 22.8 | 30 |
| 2-Chlorophenol | 0.859 | U | 0.670 | 0.613 | 77.9 | 71.1 | 20 | 15.0-120 | J | J | 8.84 | 37 |
| 2,4-Dichlorophenol | 0.859 | U | 0.928 | 0.569 | 108 | 66.1 | 20 | 20.0-120 | J | J J3 | 47.9 | 31 |
| 2,4-Dimethylphenol | 0.859 | U | 1.15 | 1.01 | 134 | 117 | 20 | 10.0-120 | J J5 | J | 13.2 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.859 | U | U | U | 70.2 | 77.4 | 20 | 10.0-120 | J | J | 9.96 | 39 |
| 2,4-Dinitrophenol | 0.652 | U | U | U | 0.000 | 0.000 | 20 | 10.0-121 | J6 | J6 | 0.000 | 40 |
| 2-Nitrophenol | 0.859 | U | 1.56 | 1.56 | 181 | 180 | 20 | 12.0-120 | J J5 | J J5 | 0.000 | 39 |
| 4-Nitrophenol | 0.859 | U | 1.10 | 1.04 | 129 | 121 | 20 | 10.0-137 | J | J | 5.77 | 32 |
| Pentachlorophenol | 0.859 | U | 0.952 | 0.795 | 111 | 92.2 | 20 | 10.0-160 | J | J | 18.0 | 31 |
| Phenol | 0.859 | U | 0.580 | 0.509 | 67.5 | 59.0 | 20 | 12.0-120 | J | J | 13.1 | 38 |
| 2,4,6-Trichlorophenol | 0.859 | U | 0.811 | 0.754 | 94.3 | 87.5 | 20 | 19.0-120 | J | J | 7.25 | 32 |
| *(S) 2-Fluorophenol* | | | | | *65.0* | *57.0* | | *12.0-120* | J7 | J7 | | |
| *(S) Phenol-d5* | | | | | *80.8* | *79.2* | | *10.0-120* | J7 | J7 | | |
| *(S) Nitrobenzene-d5* | | | | | *0.000* | *0.000* | | *10.0-122* | J7 | J7 | | |
| *(S) 2-Fluorobiphenyl* | | | | | *88.3* | *75.8* | | *15.0-120* | J7 | J7 | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *66.2* | *66.3* | | *10.0-127* | J7 | J7 | | |

## L1741416-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-36 06/13/24 04:24 • (MS) R4081126-3 06/13/24 04:45 • (MSD) R4081126-4 06/13/24 05:06

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *87.1* | *73.7* | | *10.0-120* | J7 | J7 | | |

**Sample Narrative:**

OS: Dilution due to matrix impact during extraction procedure. Surrogate failure due to matrix.

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J2 | Surrogate recovery limits have been exceeded; values are outside lower control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

# GLOSSARY OF TERMS

| Qualifier | Description |
|---|---|
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| T8 | Sample(s) received past/too close to holding time expiration. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # SAP Page 1

Lab Project # **ROUXOCA-CA**

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N____ Y____

***Rush?*** (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH 10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH 10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVP-10-8-5.0 | Grab | SS | 5 | 5/29/24 | 0758 | 3 | X | X | | | | X | | -01 |
| SVP-25-8-8.0 | | SS | 8 | | 0832 | 3 | X | X | | | | X | | -02 |
| SVP-36-5-5.0 | | SS | 5 | | 0915 | 3 | X | X | | | | X | | -03 |
| SVP-36-8-8.0 | | SS | 8 | | 0911 | 3 | X | X | | | | X | | -04 |
| SVP-61-4-4.0 | | SS | 4 | | 1157 | 3 | X | X | | | | X | | -05 |
| SVP-62-4-4.0 | | SS | 4 | | 1120 | 3 | X | X | | | | X | | -06 |
| EB-052924 | Grab | ~~WW~~ SS DS | — | 5/29/24 | 1450 | 9 | X | X | X | | | X | | -07 |
| TB-052924 | Grab | ~~W~~ SS TB | — | 5/29/24 | 1200 | 1 | | | | | | X | | -08 |
| | | SS | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | |

Chain of Custody Page 1 of 1

Pace
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**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1741416

Table H037

Acctnum: **ROUXOCA**

Template: **T253291**

Prelogin: **P1076441**

PM: **3500 - Jennifer Gambill**

PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| **If Applicable** | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |
| RAD Screen <0.5 mR/hr: | | Y N |

| | Date: | Time: | | |
|---|---|---|---|---|
| Relinquished by: (Signature) | 5/29/24 | 18:00 | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
| Relinquished by: (Signature) | 5/29/24 | 16:30 | Received by: (Signature) FEDEX | Temp: °C Bottles Received: 21 |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) Easton Organ | Date: 5/30/24 Time: 0900 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately
Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-G1-1-1.0 | Grab | SS | 1.0 | 5/29/24 | 1330 | 4 | ○ | ○ | ● | ● | ● | | | -12 |
| G-G1-1-2.0 | Grab | SS | 2.0 | | 1335 | 4 | ○ | ○ | ● | ● | ● | ● | | -13 |
| G-G1-1-3.0 | Grab | SS | 3.0 | | 1340 | 4 | ● | ● | ● | ○ | ● | ● | | -14 |
| G-G1-1-4.0 | Grab | SS | 4.0 | | 1350 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -15 |
| G-G1-1-5.0 | Grab | SS | 5.0 | | 1400 | 4 | ● | ● | ○ | ○ | ○ | ● | | -16 |
| | | SS | | | | | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

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SDG # 1741416

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/29/24 | 15:00 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/29/24 | 16:30 | FEDEX | 121 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: NCF / OK |
| | | | Easton Orgn | 5/30/24 | 0900 | | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately
Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-G2-1-1.0 | Grab | SS | 1.0 | 5/29/24 | 1150 | 4 | ○ | ○ | ● | ● | ● | | | -17 |
| G-G2-1-2.0 | Grab | SS | 2.0 | | 1155 | 4 | ○ | ○ | ● | ● | ● | ● | | -18 |
| G-G2-1-3.0 | Grab | SS | 3.0 | | 1200 | 4 | ● | ● | ● | ○ | ● | ● | | -19 |
| G-G2-1-4.0 | Grab | SS | 4.0 | | 1205 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -20 |
| G-G2-1-5.0 | Grab | SS | 5.0 | | 1210 | 4 | ● | ● | ○ | ○ | ○ | ● | | -21 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 3 of 12

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SDG # L1414116

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/29/24 | 15:00 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/29/24 | 16:30 | FEDEX | 12 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: NCF / OK |
| | | | Easton Orm | 5/30/24 | 0900 | | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-G3-1-1.0 | Grab | SS | 1.0 | 5/29/24 | 1040 | 4 (10) | ○ | ○ | ● | ● | ● | | | -27 |
| G-G3-1-2.0 | Grab | SS | 2.0 | | 1045 | 4 | ○ | ○ | ● | ● | ● | ● | | -23 |
| G-G3-1-3.0 | Grab | SS | 3.0 | | 1050 | 4 | ● | ● | ● | ○ | ● | ● | | -24 |
| G-G3-1-4.0 | Grab | SS | 4.0 | | 1055 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -25 |
| G-G3-1-5.0 | Grab | SS | 5.0 | ↓ | 1105 | 4 | ● | ● | ○ | ○ | ○ | ● | | -26 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 174146

Table #

Acctnum: **ROUXOCA**

Template: **T253291**

Prelogin: **P1076441**

PM: **3500 - Jennifer Gambill**

PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| If Applicable | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |
| RAD Screen <0.5 mR/hr: | | Y N |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by : (Signature) | Date: 05/24/24 | Time: 15:00 | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
| Relinquished by : (Signature) | Date: 5/29/24 | Time: 16:30 | Received by: (Signature) FEDEX | Temp: °C | Bottles Received: 12 | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Easton Organ | Date: 5/30/24 | Time: 0900 | Hold: | Conditions NCF / OK |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/BS-F4-1-1.0 | Grab | SS | 1.0 | 05/24/24 | 0930 | 12 | ○ | ○ | ● | ● | ● | | | -27 |
| G/BS-F4-1-2.0 | Grab | SS | 2.0 | | 0935 | 4 | ○ | ○ | ● | ○ | ● | ● | | -28 |
| G/BS-F4-1-3.0 | Grab | SS | 3.0 | | 0945 | 4 | ● | ● | ● | ○ | ● | ● | | -29 |
| G/BS-F4-1-4.0 | Grab | SS | 4.0 | | 1000 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -30 |
| G/BS-F4-1-5.0 | Grab | SS | 5.0 | ↓ | 1005 | 4 | ● | ● | ○ | ○ | ○ | ● | | -31 |
| | | SS | | | | | | | | | | | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| | 05/29/24 | 15:00 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C | Bottles Received: |
| | 5/29/24 | 16:30 | FEDEX | | 12 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: |
| | | | Easton Page | 5/30/24 | 0900 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 5 of 6

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # 1741416

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # Roux Associates, Inc.

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Aguayo/D. Bailey

Site/Facility ID # AB&I Foundry

P.O. # 1793.003OS000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote # P1076441

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-F2-1-1.0 | Grab | SS | 1.0 | 05/29/24 | 0800 | 19 | ○ | ○ | ● | ● | ● | | | -32 |
| G-F2-1-2.0 | Grab | SS | 2.0 | | 0810 | 4 | ○ | ○ | ● | ● | ● | ● | | -33 |
| G-F2-1-3.0 | Grab | SS | 3.0 | | 0815 | 4 | ● | ● | ● | ○ | ● | ● | | -34 |
| G-F2-1-4.0 | Grab | SS | 4.0 | | 0820 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -35 |
| G-F2-1-5.0 | Grab | SS | 5.0 | ↓ | 0830 | 4 | ● | ● | ○ | ○ | ○ | ● | | -36 |
| | | SS | | | | | | | | | | | | |

Chain of Custody Page 2 of 2

Pace
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SDG # 1741416

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PM: **3500 - Jennifer Gambill**

PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| If Applicable | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |
| RAD Screen <0.5 mR/hr: | | Y N |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by : (Signature) | Date: 05/29/24 | Time: 15:00 | Received by: (Signature) | Trip Blank Received: Yes / No MeOH / TBR | |
| Relinquished by : (Signature) | Date: 5/29/24 | Time: 16:30 | Received by: (Signature) FEDEX | Temp: °C | Bottles Received: 12 | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Easton Organ | Date: 5/30/24 | Time: 0900 | Hold: | Condition: NCF / OK |

| Tracking Numbers | Temperature |
|---|---|
| NA | 1.0+0.1=1.1 EOA6 |
| 6841 8348 8843 | 0.8+0.1=0.9 EOA6 |
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Name

5/30/24

Date

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1741491 |
| Samples Received: | 05/30/2024 |
| Project Number: | ROUX ASSOCIATES.INC |
| Description: | AB&I Redevelopment |

Report To:

Joshua Osborne
555 12th Street
Suite 250
Oakland, CA 94607

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## BS-G1-1-1.0 L1741491-01 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 05/29/24 14:35 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296642 | 1 | 06/01/24 15:19 | 06/01/24 15:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296691 | 1 | 06/01/24 11:13 | 06/02/24 21:41 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297094 | 1 | 06/04/24 12:13 | 06/04/24 18:50 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298869 | 1 | 06/05/24 14:12 | 06/05/24 23:20 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299143 | 1 | 06/06/24 10:28 | 06/07/24 14:46 | DSH | Mt. Juliet, TN |

## BS-G1-1-2.0 L1741491-02 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 05/29/24 14:40 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296642 | 1 | 06/01/24 15:19 | 06/01/24 15:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296691 | 1 | 06/01/24 11:13 | 06/02/24 21:48 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297099 | 1 | 06/04/24 12:31 | 06/05/24 12:52 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1.76 | 05/29/24 14:40 | 06/05/24 07:20 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300243 | 1.76 | 05/29/24 14:40 | 06/07/24 00:10 | JAH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2298869 | 1 | 06/05/24 14:12 | 06/06/24 00:08 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299143 | 2 | 06/06/24 10:28 | 06/07/24 19:48 | DSH | Mt. Juliet, TN |

## BS-G1-1-3.0 L1741491-03 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 05/29/24 14:42 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296642 | 1 | 06/01/24 15:19 | 06/01/24 15:31 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2296691 | 1 | 06/01/24 11:13 | 06/02/24 21:51 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2297099 | 1 | 06/04/24 12:31 | 06/05/24 12:57 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 32 | 05/29/24 14:42 | 06/05/24 04:43 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1.46 | 05/29/24 14:42 | 06/05/24 07:39 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300243 | 1.46 | 05/29/24 14:42 | 06/07/24 00:28 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 10 | 06/06/24 09:41 | 06/06/24 21:41 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2299143 | 2 | 06/06/24 10:28 | 06/07/24 20:09 | DSH | Mt. Juliet, TN |

## BS-G1-1-5.0 L1741491-05 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 05/29/24 14:50 | 05/30/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296643 | 1 | 06/01/24 15:34 | 06/01/24 15:48 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2298546 | 25.8 | 05/29/24 14:50 | 06/05/24 05:06 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2298650 | 1.05 | 05/29/24 14:50 | 06/05/24 07:58 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300243 | 1.05 | 05/29/24 14:50 | 06/07/24 00:47 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299541 | 1 | 06/06/24 09:41 | 06/06/24 19:36 | JAS | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 06/30/24 18:02
Level II Report - Version 2: 08/16/24 10:42

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-G1-1-1.0 | L1741491-01 | Antimony | 3.06 | | 0.635 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Arsenic | 4.29 | | 0.605 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Barium | 39.0 | | 0.0995 | 0.584 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Cadmium | 0.114 | J | 0.0550 | 0.584 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Chromium | 112 | | 0.155 | 1.17 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Cobalt | 7.55 | | 0.0947 | 1.17 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Copper | 88.4 | | 0.467 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Lead | 37.0 | | 0.243 | 0.584 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Molybdenum | 14.4 | | 0.127 | 0.584 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Nickel | 76.9 | | 0.154 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Silver | 2.23 | | 0.148 | 1.17 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Vanadium | 82.3 | | 0.591 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-1.0 | L1741491-01 | Zinc | 67.3 | | 0.972 | 5.84 | 1 | 06/04/2024 18:50 | WG2297094 |
| BS-G1-1-2.0 | L1741491-02 | Antimony | 7.00 | | 0.621 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Arsenic | 2.97 | | 0.592 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Barium | 37.8 | | 0.0973 | 0.571 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Beryllium | 0.0862 | J | 0.0360 | 0.228 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Chromium | 175 | | 0.152 | 1.14 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Cobalt | 18.5 | | 0.0926 | 1.14 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Copper | 183 | | 0.457 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Lead | 34.2 | | 0.238 | 0.571 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Molybdenum | 113 | | 0.124 | 0.571 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Nickel | 320 | | 0.151 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Vanadium | 107 | | 0.578 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-2.0 | L1741491-02 | Zinc | 12.9 | | 0.950 | 5.71 | 1 | 06/05/2024 12:52 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Antimony | 3.54 | | 0.582 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Arsenic | 0.987 | J | 0.554 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Barium | 70.5 | | 0.0911 | 0.534 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Beryllium | 0.208 | J | 0.0337 | 0.214 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Chromium | 269 | | 0.142 | 1.07 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Cobalt | 6.67 | | 0.0867 | 1.07 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Copper | 104 | | 0.428 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Lead | 23.2 | | 0.222 | 0.534 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Molybdenum | 17.3 | | 0.117 | 0.534 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Nickel | 71.4 | | 0.141 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Thallium | 1.04 | J | 0.421 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Vanadium | 129 | | 0.541 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| BS-G1-1-3.0 | L1741491-03 | Zinc | 12.9 | | 0.889 | 5.34 | 1 | 06/05/2024 12:57 | WG2297099 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-G1-1-3.0 | L1741491-03 | TPHG C5 - C12 | 3.50 | B J | 1.19 | 3.59 | 32 | 06/05/2024 04:43 | WG2298546 |
| BS-G1-1-5.0 | L1741491-05 | TPHG C5 - C12 | 5.45 | B | 1.43 | 4.31 | 25.8 | 06/05/2024 05:06 | WG2298546 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-G1-1-2.0 | L1741491-02 | Benzene | 0.00372 | | 0.00101 | 0.00215 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | n-Butylbenzene | 0.0133 | J | 0.0113 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | Ethylbenzene | 0.00415 | J | 0.00159 | 0.00538 | 1.76 | 06/07/2024 00:10 | WG2300243 |
| BS-G1-1-2.0 | L1741491-02 | Isopropylbenzene | 0.00377 | J | 0.000915 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | Naphthalene | 0.0268 | J | 0.0105 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | n-Propylbenzene | 0.0166 | | 0.00204 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | Tetrachloroethene | 0.0368 | | 0.00193 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | Toluene | 0.00678 | J | 0.00280 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | 1,2,4-Trimethylbenzene | 0.00953 | J | 0.00340 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | 1,2,3-Trimethylbenzene | 0.00850 | J | 0.00340 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-2.0 | L1741491-02 | Xylenes, Total | 0.0119 | J | 0.00190 | 0.0139 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | Benzene | 0.00200 | | 0.000761 | 0.00163 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | Ethylbenzene | 0.00269 | J | 0.00121 | 0.00407 | 1.46 | 06/07/2024 00:28 | WG2300243 |
| BS-G1-1-3.0 | L1741491-03 | Isopropylbenzene | 0.00102 | J | 0.000692 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | n-Propylbenzene | 0.00281 | J | 0.00155 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | Tetrachloroethene | 0.0204 | | 0.00146 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | Toluene | 0.00583 | J | 0.00212 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | 1,2,4-Trimethylbenzene | 0.00721 | J | 0.00258 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | 1,2,3-Trimethylbenzene | 0.00693 | J | 0.00258 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | 1,3,5-Trimethylbenzene | 0.00509 | J | 0.00326 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-3.0 | L1741491-03 | Xylenes, Total | 0.0200 | | 0.00143 | 0.0106 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| BS-G1-1-5.0 | L1741491-05 | Ethylbenzene | 0.00157 | J | 0.00129 | 0.00438 | 1.05 | 06/07/2024 00:47 | WG2300243 |
| BS-G1-1-5.0 | L1741491-05 | n-Propylbenzene | 0.00315 | J | 0.00166 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| BS-G1-1-5.0 | L1741491-05 | Tetrachloroethene | 0.0388 | | 0.00157 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| BS-G1-1-5.0 | L1741491-05 | 1,2,4-Trimethylbenzene | 0.00624 | J | 0.00276 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| BS-G1-1-5.0 | L1741491-05 | 1,2,3-Trimethylbenzene | 0.00799 | J | 0.00276 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| BS-G1-1-5.0 | L1741491-05 | 1,3,5-Trimethylbenzene | 0.00446 | J | 0.00350 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| BS-G1-1-5.0 | L1741491-05 | Xylenes, Total | 0.00699 | J | 0.00154 | 0.0114 | 1.05 | 06/05/2024 07:58 | WG2298650 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-G1-1-3.0 | L1741491-03 | C22-C32 Hydrocarbons | 73.4 | | 14.2 | 42.8 | 10 | 06/06/2024 21:41 | WG2299541 |
| BS-G1-1-3.0 | L1741491-03 | C32-C40 Hydrocarbons | 94.9 | | 14.2 | 42.8 | 10 | 06/06/2024 21:41 | WG2299541 |
| BS-G1-1-5.0 | L1741491-05 | C12-C22 Hydrocarbons | 1.84 | J | 0.982 | 5.36 | 1 | 06/06/2024 19:36 | WG2299541 |
| BS-G1-1-5.0 | L1741491-05 | C22-C32 Hydrocarbons | 3.34 | J | 1.78 | 5.36 | 1 | 06/06/2024 19:36 | WG2299541 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-G1-1-2.0 | L1741491-02 | Phenanthrene | 0.0185 | J | 0.0151 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| BS-G1-1-3.0 | L1741491-03 | Benzo(a)anthracene | 0.0139 | J | 0.0125 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| BS-G1-1-3.0 | L1741491-03 | Benzo(b)fluoranthene | 0.0397 | J | 0.0133 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| BS-G1-1-3.0 | L1741491-03 | Benzo(k)fluoranthene | 0.0140 | J | 0.0126 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| BS-G1-1-3.0 | L1741491-03 | Benzo(g,h,i)perylene | 0.0171 | J | 0.0130 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| BS-G1-1-3.0 | L1741491-03 | Benzo(a)pyrene | 0.0169 | J | 0.0133 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| BS-G1-1-3.0 | L1741491-03 | Chrysene | 0.0292 | J | 0.0141 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| BS-G1-1-3.0 | L1741491-03 | Fluoranthene | 0.0143 | J | 0.0128 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| BS-G1-1-3.0 | L1741491-03 | Pyrene | 0.0175 | J | 0.0139 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 85.6 | | 1 | 06/01/2024 15:31 | WG2296642 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0210 | 0.0467 | 1 | 06/02/2024 21:41 | WG2296691 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 3.06 | | 0.635 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| Arsenic | 4.29 | | 0.605 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| Barium | 39.0 | | 0.0995 | 0.584 | 1 | 06/04/2024 18:50 | WG2297094 |
| Beryllium | U | | 0.0368 | 0.234 | 1 | 06/04/2024 18:50 | WG2297094 |
| Cadmium | 0.114 | J | 0.0550 | 0.584 | 1 | 06/04/2024 18:50 | WG2297094 |
| Chromium | 112 | | 0.155 | 1.17 | 1 | 06/04/2024 18:50 | WG2297094 |
| Cobalt | 7.55 | | 0.0947 | 1.17 | 1 | 06/04/2024 18:50 | WG2297094 |
| Copper | 88.4 | | 0.467 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| Lead | 37.0 | | 0.243 | 0.584 | 1 | 06/04/2024 18:50 | WG2297094 |
| Molybdenum | 14.4 | | 0.127 | 0.584 | 1 | 06/04/2024 18:50 | WG2297094 |
| Nickel | 76.9 | | 0.154 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| Selenium | U | | 0.892 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| Silver | 2.23 | | 0.148 | 1.17 | 1 | 06/04/2024 18:50 | WG2297094 |
| Thallium | U | | 0.460 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| Vanadium | 82.3 | | 0.591 | 2.34 | 1 | 06/04/2024 18:50 | WG2297094 |
| Zinc | 67.3 | | 0.972 | 5.84 | 1 | 06/04/2024 18:50 | WG2297094 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0138 | 0.0397 | 1 | 06/05/2024 23:20 | WG2298869 |
| PCB 1221 | U | | 0.0138 | 0.0397 | 1 | 06/05/2024 23:20 | WG2298869 |
| PCB 1232 | U | | 0.0138 | 0.0397 | 1 | 06/05/2024 23:20 | WG2298869 |
| PCB 1242 | U | | 0.0138 | 0.0397 | 1 | 06/05/2024 23:20 | WG2298869 |
| PCB 1248 | U | | 0.00862 | 0.0199 | 1 | 06/05/2024 23:20 | WG2298869 |
| PCB 1254 | U | | 0.00862 | 0.0199 | 1 | 06/05/2024 23:20 | WG2298869 |
| PCB 1260 | U | | 0.00862 | 0.0199 | 1 | 06/05/2024 23:20 | WG2298869 |
| *(S) Decachlorobiphenyl* | *110* | | | *10.0-135* | | *06/05/2024 23:20* | WG2298869 |
| *(S) Tetrachloro-m-xylene* | *82.5* | | | *10.0-139* | | *06/05/2024 23:20* | WG2298869 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00629 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Acenaphthylene | U | | 0.00548 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Anthracene | U | | 0.00693 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Benzidine | U | | 0.0731 | 1.95 | 1 | 06/07/2024 14:46 | WG2299143 |
| Benzo(a)anthracene | U | | 0.00686 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Benzo(b)fluoranthene | U | | 0.00725 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Benzo(k)fluoranthene | U | | 0.00691 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Benzo(g,h,i)perylene | U | | 0.00711 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Benzo(a)pyrene | U | | 0.00723 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Bis(2-chlorethoxy)methane | U | | 0.0117 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Bis(2-chloroethyl)ether | U | | 0.0128 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0168 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 4-Bromophenyl-phenylether | U | | 0.0137 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2-Chloronaphthalene | U | | 0.00683 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 4-Chlorophenyl-phenylether | U | | 0.0135 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Chrysene | U | | 0.00773 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Dibenz(a,h)anthracene | U | | 0.0108 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 1,2-Dichlorobenzene | U | | 0.0115 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 1,3-Dichlorobenzene | U | | 0.0118 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 1,4-Dichlorobenzene | U | | 0.0116 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 3,3-Dichlorobenzidine | U | | 0.0144 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2,4-Dinitrotoluene | U | | 0.0112 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2,6-Dinitrotoluene | U | | 0.0127 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Fluoranthene | U | | 0.00702 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Fluorene | U | | 0.00633 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Hexachlorobenzene | U | | 0.0138 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Hexachloro-1,3-butadiene | U | | 0.0131 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Hexachlorocyclopentadiene | U | | 0.0204 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Hexachloroethane | U | | 0.0153 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0110 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Isophorone | U | | 0.0119 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Naphthalene | U | | 0.00976 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Nitrobenzene | U | | 0.0135 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| n-Nitrosodimethylamine | U | | 0.0577 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| n-Nitrosodiphenylamine | U | | 0.0294 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| n-Nitrosodi-n-propylamine | U | | 0.0130 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Phenanthrene | U | | 0.00772 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Benzylbutyl phthalate | U | | 0.0121 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0493 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Di-n-butyl phthalate | U | | 0.0133 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Diethyl phthalate | U | | 0.0128 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Dimethyl phthalate | U | | 0.0825 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Di-n-octyl phthalate | U | | 0.0263 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Pyrene | U | | 0.00757 | 0.0389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 1,2,4-Trichlorobenzene | U | | 0.0121 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 4-Chloro-3-methylphenol | U | | 0.0126 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2-Chlorophenol | U | | 0.0128 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2,4-Dichlorophenol | U | | 0.0113 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2,4-Dimethylphenol | U | | 0.0102 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0882 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2,4-Dinitrophenol | U | | 0.0910 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2-Nitrophenol | U | | 0.0139 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 4-Nitrophenol | U | | 0.0121 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Pentachlorophenol | U | | 0.0105 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| Phenol | U | | 0.0156 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| 2,4,6-Trichlorophenol | U | | 0.0125 | 0.389 | 1 | 06/07/2024 14:46 | WG2299143 |
| *(S) 2-Fluorophenol* | *58.9* | | | *12.0-120* | | *06/07/2024 14:46* | WG2299143 |
| *(S) Phenol-d5* | *53.0* | | | *10.0-120* | | *06/07/2024 14:46* | WG2299143 |
| *(S) Nitrobenzene-d5* | *51.9* | | | *10.0-122* | | *06/07/2024 14:46* | WG2299143 |
| *(S) 2-Fluorobiphenyl* | *59.9* | | | *15.0-120* | | *06/07/2024 14:46* | WG2299143 |
| *(S) 2,4,6-Tribromophenol* | *64.8* | | | *10.0-127* | | *06/07/2024 14:46* | WG2299143 |
| *(S) p-Terphenyl-d14* | *54.0* | | | *10.0-120* | | *06/07/2024 14:46* | WG2299143 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 87.6 | | 1 | 06/01/2024 15:31 | WG2296642 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0206 | 0.0457 | 1 | 06/02/2024 21:48 | WG2296691 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 7.00 | | 0.621 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| Arsenic | 2.97 | | 0.592 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| Barium | 37.8 | | 0.0973 | 0.571 | 1 | 06/05/2024 12:52 | WG2297099 |
| Beryllium | 0.0862 | J | 0.0360 | 0.228 | 1 | 06/05/2024 12:52 | WG2297099 |
| Cadmium | U | | 0.0538 | 0.571 | 1 | 06/05/2024 12:52 | WG2297099 |
| Chromium | 175 | | 0.152 | 1.14 | 1 | 06/05/2024 12:52 | WG2297099 |
| Cobalt | 18.5 | | 0.0926 | 1.14 | 1 | 06/05/2024 12:52 | WG2297099 |
| Copper | 183 | | 0.457 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| Lead | 34.2 | | 0.238 | 0.571 | 1 | 06/05/2024 12:52 | WG2297099 |
| Molybdenum | 113 | | 0.124 | 0.571 | 1 | 06/05/2024 12:52 | WG2297099 |
| Nickel | 320 | | 0.151 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| Selenium | U | | 0.873 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| Silver | U | | 0.145 | 1.14 | 1 | 06/05/2024 12:52 | WG2297099 |
| Thallium | U | | 0.450 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| Vanadium | 107 | | 0.578 | 2.28 | 1 | 06/05/2024 12:52 | WG2297099 |
| Zinc | 12.9 | | 0.950 | 5.71 | 1 | 06/05/2024 12:52 | WG2297099 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0785 | 0.108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Acrylonitrile | U | | 0.00777 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Benzene | 0.00372 | | 0.00101 | 0.00215 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Bromobenzene | U | | 0.00193 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Bromodichloromethane | U | | 0.00157 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Bromoform | U | | 0.00252 | 0.0538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Bromomethane | U | | 0.00424 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| n-Butylbenzene | 0.0133 | J | 0.0113 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| sec-Butylbenzene | U | | 0.00620 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| tert-Butylbenzene | U | | 0.00419 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Carbon tetrachloride | U | | 0.00193 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Chlorobenzene | U | | 0.000452 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Chlorodibromomethane | U | | 0.00132 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Chloroethane | U | | 0.00366 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Chloroform | U | | 0.00221 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Chloromethane | U | | 0.00937 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00186 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000969 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00839 | 0.0538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.00139 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Dibromomethane | U | | 0.00161 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000915 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.00130 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00150 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00346 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.00106 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.00139 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.00131 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00158 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00224 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00306 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00174 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.00108 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00163 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00246 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00297 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Di-isopropyl ether | U | | 0.000883 | 0.00215 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Ethylbenzene | 0.00415 | J | 0.00159 | 0.00538 | 1.76 | 06/07/2024 00:10 | WG2300243 |
| Hexachloro-1,3-butadiene | U | | 0.0130 | 0.0538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Isopropylbenzene | 0.00377 | J | 0.000915 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| p-Isopropyltoluene | U | | 0.00549 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.137 | 0.215 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Methylene Chloride | U | | 0.0143 | 0.0538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00490 | 0.0538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Methyl tert-butyl ether | U | | 0.000753 | 0.00215 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Naphthalene | 0.0268 | J | 0.0105 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| n-Propylbenzene | 0.0166 | | 0.00204 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Styrene | U | | 0.000493 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00204 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00149 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00163 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Tetrachloroethene | 0.0368 | | 0.00193 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Toluene | 0.00678 | J | 0.00280 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0158 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00947 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,1,1-Trichloroethane | U | | 0.00198 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.00128 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Trichloroethene | U | | 0.00126 | 0.00215 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00179 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00349 | 0.0269 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2,4-Trimethylbenzene | 0.00953 | J | 0.00340 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,2,3-Trimethylbenzene | 0.00850 | J | 0.00340 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| 1,3,5-Trimethylbenzene | U | | 0.00430 | 0.0108 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Vinyl chloride | U | | 0.00249 | 0.00538 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| Xylenes, Total | 0.0119 | J | 0.00190 | 0.0139 | 1.76 | 06/05/2024 07:20 | WG2298650 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *06/05/2024 07:20* | WG2298650 |
| *(S) Toluene-d8* | *111* | | | *75.0-131* | | *06/07/2024 00:10* | WG2300243 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/05/2024 07:20* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/07/2024 00:10* | WG2300243 |
| *(S) 1,2-Dichloroethane-d4* | *96.9* | | | *70.0-130* | | *06/05/2024 07:20* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *85.9* | | | *70.0-130* | | *06/07/2024 00:10* | WG2300243 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0135 | 0.0388 | 1 | 06/06/2024 00:08 | WG2298869 |
| PCB 1221 | U | | 0.0135 | 0.0388 | 1 | 06/06/2024 00:08 | WG2298869 |
| PCB 1232 | U | | 0.0135 | 0.0388 | 1 | 06/06/2024 00:08 | WG2298869 |
| PCB 1242 | U | | 0.0135 | 0.0388 | 1 | 06/06/2024 00:08 | WG2298869 |
| PCB 1248 | U | | 0.00843 | 0.0194 | 1 | 06/06/2024 00:08 | WG2298869 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1254 | U | | 0.00843 | 0.0194 | 1 | 06/06/2024 00:08 | WG2298869 |
| PCB 1260 | U | | 0.00843 | 0.0194 | 1 | 06/06/2024 00:08 | WG2298869 |
| *(S) Decachlorobiphenyl* | *116* | | | *10.0-135* | | *06/06/2024 00:08* | WG2298869 |
| *(S) Tetrachloro-m-xylene* | *97.0* | | | *10.0-139* | | *06/06/2024 00:08* | WG2298869 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0123 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Acenaphthylene | U | | 0.0107 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Anthracene | U | | 0.0136 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Benzidine | U | | 0.143 | 3.81 | 2 | 06/07/2024 19:48 | WG2299143 |
| Benzo(a)anthracene | U | | 0.0134 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Benzo(b)fluoranthene | U | | 0.0142 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Benzo(k)fluoranthene | U | | 0.0135 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Benzo(g,h,i)perylene | U | | 0.0139 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Benzo(a)pyrene | U | | 0.0142 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Bis(2-chlorethoxy)methane | U | | 0.0228 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Bis(2-chloroethyl)ether | U | | 0.0251 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0329 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 4-Bromophenyl-phenylether | U | | 0.0267 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2-Chloronaphthalene | U | | 0.0134 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 4-Chlorophenyl-phenylether | U | | 0.0265 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Chrysene | U | | 0.0151 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Dibenz(a,h)anthracene | U | | 0.0211 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 1,2-Dichlorobenzene | U | | 0.0225 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 1,3-Dichlorobenzene | U | | 0.0231 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 1,4-Dichlorobenzene | U | | 0.0226 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 3,3-Dichlorobenzidine | U | | 0.0281 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2,4-Dinitrotoluene | U | | 0.0218 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2,6-Dinitrotoluene | U | | 0.0249 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Fluoranthene | U | | 0.0137 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Fluorene | U | | 0.0123 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Hexachlorobenzene | U | | 0.0270 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Hexachloro-1,3-butadiene | U | | 0.0256 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Hexachlorocyclopentadiene | U | | 0.0400 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Hexachloroethane | U | | 0.0299 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0215 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Isophorone | U | | 0.0233 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Naphthalene | U | | 0.0191 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Nitrobenzene | U | | 0.0265 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| n-Nitrosodimethylamine | U | | 0.113 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| n-Nitrosodiphenylamine | U | | 0.0576 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| n-Nitrosodi-n-propylamine | U | | 0.0254 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Phenanthrene | 0.0185 | J | 0.0151 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Benzylbutyl phthalate | U | | 0.0238 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0964 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Di-n-butyl phthalate | U | | 0.0260 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Diethyl phthalate | U | | 0.0251 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Dimethyl phthalate | U | | 0.161 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Di-n-octyl phthalate | U | | 0.0514 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Pyrene | U | | 0.0148 | 0.0761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 1,2,4-Trichlorobenzene | U | | 0.0238 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 4-Chloro-3-methylphenol | U | | 0.0247 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2-Chlorophenol | U | | 0.0251 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2,4-Dichlorophenol | U | | 0.0222 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0199 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 4,6-Dinitro-2-methylphenol | U | | 0.172 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2,4-Dinitrophenol | U | | 0.178 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2-Nitrophenol | U | | 0.0272 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 4-Nitrophenol | U | | 0.0238 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Pentachlorophenol | U | | 0.0204 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| Phenol | U | | 0.0306 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| 2,4,6-Trichlorophenol | U | | 0.0244 | 0.761 | 2 | 06/07/2024 19:48 | WG2299143 |
| *(S) 2-Fluorophenol* | *74.6* | | | *12.0-120* | | *06/07/2024 19:48* | WG2299143 |
| *(S) Phenol-d5* | *70.1* | | | *10.0-120* | | *06/07/2024 19:48* | WG2299143 |
| *(S) Nitrobenzene-d5* | *61.9* | | | *10.0-122* | | *06/07/2024 19:48* | WG2299143 |
| *(S) 2-Fluorobiphenyl* | *76.5* | | | *15.0-120* | | *06/07/2024 19:48* | WG2299143 |
| *(S) 2,4,6-Tribromophenol* | *87.1* | | | *10.0-127* | | *06/07/2024 19:48* | WG2299143 |
| *(S) p-Terphenyl-d14* | *74.6* | | | *10.0-120* | | *06/07/2024 19:48* | WG2299143 |

**Sample Narrative:**

L1741491-02 WG2299143: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 93.5 | | 1 | 06/01/2024 15:31 | WG2296642 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0192 | 0.0428 | 1 | 06/02/2024 21:51 | WG2296691 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 3.54 | | 0.582 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| Arsenic | 0.987 | J | 0.554 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| Barium | 70.5 | | 0.0911 | 0.534 | 1 | 06/05/2024 12:57 | WG2297099 |
| Beryllium | 0.208 | J | 0.0337 | 0.214 | 1 | 06/05/2024 12:57 | WG2297099 |
| Cadmium | U | | 0.0503 | 0.534 | 1 | 06/05/2024 12:57 | WG2297099 |
| Chromium | 269 | | 0.142 | 1.07 | 1 | 06/05/2024 12:57 | WG2297099 |
| Cobalt | 6.67 | | 0.0867 | 1.07 | 1 | 06/05/2024 12:57 | WG2297099 |
| Copper | 104 | | 0.428 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| Lead | 23.2 | | 0.222 | 0.534 | 1 | 06/05/2024 12:57 | WG2297099 |
| Molybdenum | 17.3 | | 0.117 | 0.534 | 1 | 06/05/2024 12:57 | WG2297099 |
| Nickel | 71.4 | | 0.141 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| Selenium | U | | 0.817 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| Silver | U | | 0.136 | 1.07 | 1 | 06/05/2024 12:57 | WG2297099 |
| Thallium | 1.04 | J | 0.421 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| Vanadium | 129 | | 0.541 | 2.14 | 1 | 06/05/2024 12:57 | WG2297099 |
| Zinc | 12.9 | | 0.889 | 5.34 | 1 | 06/05/2024 12:57 | WG2297099 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 3.50 | B J | 1.19 | 3.59 | 32 | 06/05/2024 04:43 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *06/05/2024 04:43* | WG2298546 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0595 | 0.0815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Acrylonitrile | U | | 0.00588 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Benzene | 0.00200 | | 0.000761 | 0.00163 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Bromobenzene | U | | 0.00146 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Bromodichloromethane | U | | 0.00118 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Bromoform | U | | 0.00191 | 0.0407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Bromomethane | U | | 0.00321 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| n-Butylbenzene | U | | 0.00855 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| sec-Butylbenzene | U | | 0.00469 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| tert-Butylbenzene | U | | 0.00318 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Carbon tetrachloride | U | | 0.00146 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Chlorobenzene | U | | 0.000343 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Chlorodibromomethane | U | | 0.000998 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Chloroethane | U | | 0.00277 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Chloroform | U | | 0.00167 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Chloromethane | U | | 0.00709 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00141 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000733 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00635 | 0.0407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Dibromomethane | U | | 0.00123 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000692 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.000978 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00114 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Dichlorodifluoromethane | U | | 0.00262 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.000800 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.00106 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.000988 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00119 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00170 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00231 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00132 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000816 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00124 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00185 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00224 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Di-isopropyl ether | U | | 0.000669 | 0.00163 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Ethylbenzene | 0.00269 | J | 0.00121 | 0.00407 | 1.46 | 06/07/2024 00:28 | WG2300243 |
| Hexachloro-1,3-butadiene | U | | 0.00978 | 0.0407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Isopropylbenzene | 0.00102 | J | 0.000692 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| p-Isopropyltoluene | U | | 0.00415 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.103 | 0.163 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Methylene Chloride | U | | 0.0108 | 0.0407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00372 | 0.0407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Methyl tert-butyl ether | U | | 0.000570 | 0.00163 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Naphthalene | U | | 0.00795 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| n-Propylbenzene | 0.00281 | J | 0.00155 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Styrene | U | | 0.000373 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00154 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00113 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00123 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Tetrachloroethene | 0.0204 | | 0.00146 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Toluene | 0.00583 | J | 0.00212 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0119 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00717 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,1,1-Trichloroethane | U | | 0.00151 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.000973 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Trichloroethene | U | | 0.000952 | 0.00163 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00135 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00265 | 0.0204 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2,4-Trimethylbenzene | 0.00721 | J | 0.00258 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,2,3-Trimethylbenzene | 0.00693 | J | 0.00258 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| 1,3,5-Trimethylbenzene | 0.00509 | J | 0.00326 | 0.00815 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Vinyl chloride | U | | 0.00189 | 0.00407 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| Xylenes, Total | 0.0200 | | 0.00143 | 0.0106 | 1.46 | 06/05/2024 07:39 | WG2298650 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *06/05/2024 07:39* | WG2298650 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *06/07/2024 00:28* | WG2300243 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/05/2024 07:39* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/07/2024 00:28* | WG2300243 |
| *(S) 1,2-Dichloroethane-d4* | *96.9* | | | *70.0-130* | | *06/05/2024 07:39* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* | | *06/07/2024 00:28* | WG2300243 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 7.84 | 42.8 | 10 | 06/06/2024 21:41 | WG2299541 |
| C22-C32 Hydrocarbons | 73.4 | | 14.2 | 42.8 | 10 | 06/06/2024 21:41 | WG2299541 |
| C32-C40 Hydrocarbons | 94.9 | | 14.2 | 42.8 | 10 | 06/06/2024 21:41 | WG2299541 |
| *(S) o-Terphenyl* | *68.9* | | | *18.0-148* | | *06/06/2024 21:41* | WG2299541 |

Sample Narrative:

L1741491-03 WG2299541: Cannot run at lower dilution due to viscosity of extract

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0115 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Acenaphthylene | U | | 0.0100 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Anthracene | U | | 0.0127 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Benzidine | U | | 0.134 | 3.57 | 2 | 06/07/2024 20:09 | WG2299143 |
| Benzo(a)anthracene | 0.0139 | J | 0.0125 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Benzo(b)fluoranthene | 0.0397 | J | 0.0133 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Benzo(k)fluoranthene | 0.0140 | J | 0.0126 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Benzo(g,h,i)perylene | 0.0171 | J | 0.0130 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Benzo(a)pyrene | 0.0169 | J | 0.0133 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Bis(2-chlorethoxy)methane | U | | 0.0214 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Bis(2-chloroethyl)ether | U | | 0.0235 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0308 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 4-Bromophenyl-phenylether | U | | 0.0250 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2-Chloronaphthalene | U | | 0.0125 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 4-Chlorophenyl-phenylether | U | | 0.0248 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Chrysene | 0.0292 | J | 0.0141 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Dibenz(a,h)anthracene | U | | 0.0198 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 1,2-Dichlorobenzene | U | | 0.0211 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 1,3-Dichlorobenzene | U | | 0.0216 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 1,4-Dichlorobenzene | U | | 0.0212 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 3,3-Dichlorobenzidine | U | | 0.0263 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2,4-Dinitrotoluene | U | | 0.0204 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2,6-Dinitrotoluene | U | | 0.0233 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Fluoranthene | 0.0143 | J | 0.0128 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Fluorene | U | | 0.0115 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Hexachlorobenzene | U | | 0.0252 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Hexachloro-1,3-butadiene | U | | 0.0239 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Hexachlorocyclopentadiene | U | | 0.0374 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Hexachloroethane | U | | 0.0280 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0201 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Isophorone | U | | 0.0218 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Naphthalene | U | | 0.0179 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Nitrobenzene | U | | 0.0248 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| n-Nitrosodimethylamine | U | | 0.106 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| n-Nitrosodiphenylamine | U | | 0.0539 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| n-Nitrosodi-n-propylamine | U | | 0.0237 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Phenanthrene | U | | 0.0141 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Benzylbutyl phthalate | U | | 0.0222 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0902 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Di-n-butyl phthalate | U | | 0.0244 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Diethyl phthalate | U | | 0.0235 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Dimethyl phthalate | U | | 0.151 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Di-n-octyl phthalate | U | | 0.0481 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Pyrene | 0.0175 | J | 0.0139 | 0.0712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 1,2,4-Trichlorobenzene | U | | 0.0222 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.0231 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2-Chlorophenol | U | | 0.0235 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2,4-Dichlorophenol | U | | 0.0207 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2,4-Dimethylphenol | U | | 0.0186 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 4,6-Dinitro-2-methylphenol | U | | 0.161 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2,4-Dinitrophenol | U | | 0.167 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2-Nitrophenol | U | | 0.0254 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 4-Nitrophenol | U | | 0.0222 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Pentachlorophenol | U | | 0.0191 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| Phenol | U | | 0.0286 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| 2,4,6-Trichlorophenol | U | | 0.0229 | 0.712 | 2 | 06/07/2024 20:09 | WG2299143 |
| *(S) 2-Fluorophenol* | *73.2* | | | *12.0-120* | | *06/07/2024 20:09* | WG2299143 |
| *(S) Phenol-d5* | *69.9* | | | *10.0-120* | | *06/07/2024 20:09* | WG2299143 |
| *(S) Nitrobenzene-d5* | *61.6* | | | *10.0-122* | | *06/07/2024 20:09* | WG2299143 |
| *(S) 2-Fluorobiphenyl* | *75.9* | | | *15.0-120* | | *06/07/2024 20:09* | WG2299143 |
| *(S) 2,4,6-Tribromophenol* | *92.7* | | | *10.0-127* | | *06/07/2024 20:09* | WG2299143 |
| *(S) p-Terphenyl-d14* | *86.1* | | | *10.0-120* | | *06/07/2024 20:09* | WG2299143 |

**Sample Narrative:**

L1741491-03 WG2299143: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 74.6 | | 1 | 06/01/2024 15:48 | WG2296643 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 5.45 | B | 1.43 | 4.31 | 25.8 | 06/05/2024 05:06 | WG2298546 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/05/2024 05:06* | WG2298546 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0637 | 0.0874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Acrylonitrile | U | | 0.00631 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Benzene | U | | 0.000816 | 0.00175 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Bromobenzene | U | | 0.00157 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Bromodichloromethane | U | | 0.00127 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Bromoform | U | | 0.00205 | 0.0438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Bromomethane | U | | 0.00345 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| n-Butylbenzene | U | | 0.00917 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| sec-Butylbenzene | U | | 0.00503 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| tert-Butylbenzene | U | | 0.00341 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Carbon tetrachloride | U | | 0.00157 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Chlorobenzene | U | | 0.000368 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Chlorodibromomethane | U | | 0.00107 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Chloroethane | U | | 0.00298 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Chloroform | U | | 0.00180 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Chloromethane | U | | 0.00761 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 2-Chlorotoluene | U | | 0.00151 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 4-Chlorotoluene | U | | 0.000787 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00681 | 0.0438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2-Dibromoethane | U | | 0.00113 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Dibromomethane | U | | 0.00131 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2-Dichlorobenzene | U | | 0.000742 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,3-Dichlorobenzene | U | | 0.00105 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,4-Dichlorobenzene | U | | 0.00122 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Dichlorodifluoromethane | U | | 0.00281 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,1-Dichloroethane | U | | 0.000859 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2-Dichloroethane | U | | 0.00113 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,1-Dichloroethene | U | | 0.00106 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| cis-1,2-Dichloroethene | U | | 0.00128 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| trans-1,2-Dichloroethene | U | | 0.00181 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2-Dichloropropane | U | | 0.00248 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,1-Dichloropropene | U | | 0.00141 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,3-Dichloropropane | U | | 0.000876 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| cis-1,3-Dichloropropene | U | | 0.00132 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| trans-1,3-Dichloropropene | U | | 0.00200 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 2,2-Dichloropropane | U | | 0.00241 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Di-isopropyl ether | U | | 0.000717 | 0.00175 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Ethylbenzene | 0.00157 | J | 0.00129 | 0.00438 | 1.05 | 06/07/2024 00:47 | WG2300243 |
| Hexachloro-1,3-butadiene | U | | 0.0105 | 0.0438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Isopropylbenzene | U | | 0.000742 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| p-Isopropyltoluene | U | | 0.00446 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 2-Butanone (MEK) | U | | 0.111 | 0.175 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Methylene Chloride | U | | 0.0116 | 0.0438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00398 | 0.0438 | 1.05 | 06/05/2024 07:58 | WG2298650 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000613 | 0.00175 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Naphthalene | U | | 0.00852 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| n-Propylbenzene | 0.00315 | J | 0.00166 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Styrene | U | | 0.000399 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00166 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00122 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00132 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Tetrachloroethene | 0.0388 | | 0.00157 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Toluene | U | | 0.00226 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2,3-Trichlorobenzene | U | | 0.0128 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2,4-Trichlorobenzene | U | | 0.00769 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,1,1-Trichloroethane | U | | 0.00161 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,1,2-Trichloroethane | U | | 0.00104 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Trichloroethene | U | | 0.00102 | 0.00175 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Trichlorofluoromethane | U | | 0.00144 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2,3-Trichloropropane | U | | 0.00283 | 0.0218 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2,4-Trimethylbenzene | 0.00624 | J | 0.00276 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,2,3-Trimethylbenzene | 0.00799 | J | 0.00276 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| 1,3,5-Trimethylbenzene | 0.00446 | J | 0.00350 | 0.00874 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Vinyl chloride | U | | 0.00203 | 0.00438 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| Xylenes, Total | 0.00699 | J | 0.00154 | 0.0114 | 1.05 | 06/05/2024 07:58 | WG2298650 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/05/2024 07:58* | WG2298650 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* | | *06/07/2024 00:47* | WG2300243 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/05/2024 07:58* | WG2298650 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/07/2024 00:47* | WG2300243 |
| *(S) 1,2-Dichloroethane-d4* | *89.7* | | | *70.0-130* | | *06/05/2024 07:58* | WG2298650 |
| *(S) 1,2-Dichloroethane-d4* | *90.1* | | | *70.0-130* | | *06/07/2024 00:47* | WG2300243 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.84 | J | 0.982 | 5.36 | 1 | 06/06/2024 19:36 | WG2299541 |
| C22-C32 Hydrocarbons | 3.34 | J | 1.78 | 5.36 | 1 | 06/06/2024 19:36 | WG2299541 |
| C32-C40 Hydrocarbons | U | | 1.78 | 5.36 | 1 | 06/06/2024 19:36 | WG2299541 |
| *(S) o-Terphenyl* | *60.0* | | | *18.0-148* | | *06/06/2024 19:36* | WG2299541 |

# QUALITY CONTROL SUMMARY

L1741491-01,02,03

## Method Blank (MB)

(MB) R4076507-1 06/01/24 15:31

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1741446-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1741446-32 06/01/24 15:31 • (DUP) R4076507-3 06/01/24 15:31

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 59.2 | 60.8 | 1 | 2.80 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076507-2 06/01/24 15:31

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4076514-1 06/01/24 15:48

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1741491-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1741491-05 06/01/24 15:48 • (DUP) R4076514-3 06/01/24 15:48

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 74.6 | 74.3 | 1 | 0.447 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076514-2 06/01/24 15:48

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1741491-01,02,03

## Method Blank (MB)

(MB) R4076361-1 06/02/24 21:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4076361-2 06/02/24 21:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.463 | 92.5 | 80.0-120 | |

## L1741265-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741265-18 06/02/24 21:07 • (MS) R4076361-4 06/02/24 21:19 • (MSD) R4076361-5 06/02/24 21:21

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | 0.0773 | 0.495 | 0.496 | 83.5 | 83.6 | 1 | 75.0-125 | | | 0.161 | 20 |

# QUALITY CONTROL SUMMARY

L1741491-01

## Method Blank (MB)

(MB) R4077222-1 06/04/24 18:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077222-2 06/04/24 18:29

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 93.9 | 93.9 | 80.0-120 | |
| Arsenic | 100 | 98.7 | 98.7 | 80.0-120 | |
| Barium | 100 | 97.6 | 97.6 | 80.0-120 | |
| Beryllium | 100 | 95.7 | 95.7 | 80.0-120 | |
| Cadmium | 100 | 92.1 | 92.1 | 80.0-120 | |
| Chromium | 100 | 98.2 | 98.2 | 80.0-120 | |
| Cobalt | 100 | 94.7 | 94.7 | 80.0-120 | |
| Copper | 100 | 96.2 | 96.2 | 80.0-120 | |
| Lead | 100 | 95.1 | 95.1 | 80.0-120 | |
| Molybdenum | 100 | 98.1 | 98.1 | 80.0-120 | |
| Nickel | 100 | 93.1 | 93.1 | 80.0-120 | |
| Selenium | 100 | 93.8 | 93.8 | 80.0-120 | |
| Silver | 20.0 | 19.7 | 98.3 | 80.0-120 | |
| Thallium | 100 | 99.8 | 99.8 | 80.0-120 | |
| Vanadium | 100 | 94.9 | 94.9 | 80.0-120 | |
| Zinc | 100 | 95.9 | 95.9 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1741491-01

## L1741618-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741618-03 06/04/24 18:31 • (MS) R4077222-5 06/04/24 18:36 • (MSD) R4077222-6 06/04/24 18:38

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 107 | U | 84.4 | 84.1 | 78.8 | 78.5 | 1 | 75.0-125 | | | 0.339 | 20 |
| Arsenic | 107 | 4.34 | 103 | 101 | 92.1 | 90.0 | 1 | 75.0-125 | | | 2.17 | 20 |
| Barium | 107 | 29.6 | 129 | 129 | 92.5 | 92.9 | 1 | 75.0-125 | | | 0.338 | 20 |
| Beryllium | 107 | 0.193 | 93.0 | 92.6 | 86.6 | 86.2 | 1 | 75.0-125 | | | 0.442 | 20 |
| Cadmium | 107 | 0.166 | 90.7 | 90.5 | 84.5 | 84.3 | 1 | 75.0-125 | | | 0.251 | 20 |
| Chromium | 107 | 4.74 | 101 | 101 | 90.3 | 89.8 | 1 | 75.0-125 | | | 0.514 | 20 |
| Cobalt | 107 | 2.41 | 97.4 | 94.5 | 88.7 | 86.0 | 1 | 75.0-125 | | | 2.96 | 20 |
| Copper | 107 | 6.24 | 99.6 | 101 | 87.2 | 88.5 | 1 | 75.0-125 | | | 1.40 | 20 |
| Lead | 107 | 24.7 | 118 | 136 | 87.1 | 104 | 1 | 75.0-125 | | | 14.4 | 20 |
| Molybdenum | 107 | 0.868 | 94.0 | 94.6 | 87.0 | 87.5 | 1 | 75.0-125 | | | 0.629 | 20 |
| Nickel | 107 | 5.15 | 99.4 | 98.6 | 88.0 | 87.2 | 1 | 75.0-125 | | | 0.893 | 20 |
| Selenium | 107 | U | 92.3 | 92.0 | 86.2 | 85.8 | 1 | 75.0-125 | | | 0.366 | 20 |
| Silver | 21.4 | U | 19.9 | 19.8 | 93.0 | 92.4 | 1 | 75.0-125 | | | 0.633 | 20 |
| Thallium | 107 | U | 96.2 | 96.9 | 89.8 | 90.5 | 1 | 75.0-125 | | | 0.747 | 20 |
| Vanadium | 107 | 6.25 | 101 | 98.1 | 88.4 | 85.7 | 1 | 75.0-125 | | | 2.90 | 20 |
| Zinc | 107 | 23.7 | 133 | 120 | 102 | 89.7 | 1 | 75.0-125 | | | 10.1 | 20 |

# QUALITY CONTROL SUMMARY

L1741491-02,03

## Method Blank (MB)

(MB) R4077592-1 06/05/24 12:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4077592-2 06/05/24 12:38

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 91.1 | 91.1 | 80.0-120 | |
| Arsenic | 100 | 91.8 | 91.8 | 80.0-120 | |
| Barium | 100 | 95.9 | 95.9 | 80.0-120 | |
| Beryllium | 100 | 91.4 | 91.4 | 80.0-120 | |
| Cadmium | 100 | 91.9 | 91.9 | 80.0-120 | |
| Chromium | 100 | 95.6 | 95.6 | 80.0-120 | |
| Cobalt | 100 | 89.3 | 89.3 | 80.0-120 | |
| Copper | 100 | 95.0 | 95.0 | 80.0-120 | |
| Lead | 100 | 91.3 | 91.3 | 80.0-120 | |
| Molybdenum | 100 | 93.9 | 93.9 | 80.0-120 | |
| Nickel | 100 | 90.2 | 90.2 | 80.0-120 | |
| Selenium | 100 | 90.2 | 90.2 | 80.0-120 | |
| Silver | 20.0 | 18.1 | 90.4 | 80.0-120 | |
| Thallium | 100 | 94.4 | 94.4 | 80.0-120 | |
| Vanadium | 100 | 91.1 | 91.1 | 80.0-120 | |
| Zinc | 100 | 93.6 | 93.6 | 80.0-120 | |

# QUALITY CONTROL SUMMARY

L1741491-02,03

## L1741468-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741468-14 06/05/24 12:40 • (MS) R4077592-5 06/05/24 12:45 • (MSD) R4077592-6 06/05/24 12:47

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 100 | 0.886 | 66.8 | 67.3 | 65.9 | 66.4 | 1 | 75.0-125 | J6 | J6 | 0.698 | 20 |
| Arsenic | 100 | 1.29 | 79.8 | 82.4 | 78.6 | 81.2 | 1 | 75.0-125 | | | 3.20 | 20 |
| Barium | 100 | 45.0 | 128 | 122 | 82.7 | 76.6 | 1 | 75.0-125 | | | 4.90 | 20 |
| Beryllium | 100 | 0.606 | 80.3 | 86.5 | 79.7 | 85.9 | 1 | 75.0-125 | | | 7.47 | 20 |
| Cadmium | 100 | 0.107 | 78.1 | 78.7 | 78.0 | 78.6 | 1 | 75.0-125 | | | 0.724 | 20 |
| Chromium | 100 | 4.47 | 86.1 | 89.2 | 81.6 | 84.8 | 1 | 75.0-125 | | | 3.62 | 20 |
| Cobalt | 100 | 3.49 | 89.8 | 92.5 | 86.3 | 89.0 | 1 | 75.0-125 | | | 2.97 | 20 |
| Copper | 100 | 7.42 | 93.5 | 101 | 86.0 | 94.0 | 1 | 75.0-125 | | | 8.16 | 20 |
| Lead | 100 | 9.99 | 93.2 | 93.7 | 83.2 | 83.7 | 1 | 75.0-125 | | | 0.514 | 20 |
| Molybdenum | 100 | 0.191 | 68.5 | 73.1 | 68.4 | 72.9 | 1 | 75.0-125 | J6 | J6 | 6.39 | 20 |
| Nickel | 100 | 6.39 | 87.4 | 86.0 | 81.0 | 79.6 | 1 | 75.0-125 | | | 1.66 | 20 |
| Selenium | 100 | U | 79.7 | 81.6 | 79.7 | 81.6 | 1 | 75.0-125 | | | 2.45 | 20 |
| Silver | 20.0 | U | 15.9 | 16.8 | 79.4 | 84.0 | 1 | 75.0-125 | | | 5.57 | 20 |
| Thallium | 100 | U | 84.8 | 86.4 | 84.8 | 86.4 | 1 | 75.0-125 | | | 1.84 | 20 |
| Vanadium | 100 | 10.5 | 87.4 | 93.5 | 76.9 | 83.0 | 1 | 75.0-125 | | | 6.72 | 20 |
| Zinc | 100 | 18.3 | 93.4 | 100 | 75.1 | 81.7 | 1 | 75.0-125 | | | 6.77 | 20 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4078024-2 06/05/24 00:29

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 0.992 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078024-1 06/04/24 22:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 6.00 | 120 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *116* | *77.0-120* | |

## L1741491-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741491-05 06/05/24 05:06 • (MS) R4078024-3 06/05/24 08:33 • (MSD) R4078024-4 06/05/24 08:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 216 | 5.45 | 232 | 227 | 105 | 103 | 25.8 | 10.0-141 | | | 2.18 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *116* | *115* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4078242-2 06/05/24 04:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |

## Method Blank (MB)

(MB) R4078242-2 06/05/24 04:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *98.1* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R4078242-1 06/05/24 02:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.773 | 124 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.903 | 144 | 45.0-153 | |
| Benzene | 0.125 | 0.107 | 85.6 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.111 | 88.8 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.118 | 94.4 | 73.0-121 | |
| Bromoform | 0.125 | 0.121 | 96.8 | 64.0-132 | |

## Laboratory Control Sample (LCS)

(LCS) R4078242-1 06/05/24 02:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromomethane | 0.125 | 0.106 | 84.8 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.107 | 85.6 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.123 | 98.4 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.122 | 97.6 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.126 | 101 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.117 | 93.6 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.119 | 95.2 | 74.0-127 | |
| Chloroethane | 0.125 | 0.114 | 91.2 | 61.0-134 | |
| Chloroform | 0.125 | 0.110 | 88.0 | 72.0-123 | |
| Chloromethane | 0.125 | 0.0993 | 79.4 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.128 | 102 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.119 | 95.2 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.139 | 111 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.126 | 101 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.110 | 88.0 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.120 | 96.0 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.117 | 93.6 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.118 | 94.4 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.114 | 91.2 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.119 | 95.2 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.105 | 84.0 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.115 | 92.0 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.116 | 92.8 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.112 | 89.6 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.111 | 88.8 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.119 | 95.2 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.120 | 96.0 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.121 | 96.8 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.125 | 100 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.131 | 105 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.116 | 92.8 | 60.0-136 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.108 | 86.4 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.122 | 97.6 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.118 | 94.4 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.939 | 150 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.109 | 87.2 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.742 | 119 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.116 | 92.8 | 66.0-132 | |
| Naphthalene | 0.125 | 0.114 | 91.2 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.120 | 96.0 | 74.0-126 | |

## Laboratory Control Sample (LCS)

(LCS) R4078242-1 06/05/24 02:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Styrene | 0.125 | 0.113 | 90.4 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.116 | 92.8 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.123 | 98.4 | 68.0-128 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.124 | 99.2 | 61.0-139 | |
| Tetrachloroethene | 0.125 | 0.122 | 97.6 | 70.0-136 | |
| Toluene | 0.125 | 0.113 | 90.4 | 75.0-121 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.123 | 98.4 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.115 | 92.0 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.127 | 102 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.120 | 96.0 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.118 | 94.4 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.138 | 110 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.126 | 101 | 67.0-129 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.114 | 91.2 | 70.0-126 | |
| 1,2,3-Trimethylbenzene | 0.125 | 0.115 | 92.0 | 74.0-124 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.116 | 92.8 | 73.0-127 | |
| Vinyl chloride | 0.125 | 0.105 | 84.0 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.360 | 96.0 | 72.0-127 | |
| *(S) Toluene-d8* | | | *101* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *102* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *101* | *70.0-130* | |

## Method Blank (MB)

(MB) R4078943-3 06/06/24 21:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *92.9* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078943-1 06/06/24 20:08 • (LCSD) R4078943-2 06/06/24 20:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.125 | 0.116 | 0.117 | 92.8 | 93.6 | 74.0-126 | | | 0.858 | 20 |
| *(S) Toluene-d8* | | | | *109* | *108* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.8* | *98.2* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *101* | *100* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4078449-1 06/06/24 17:58

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *72.4* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4078449-2 06/06/24 18:12

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 19.4 | 77.6 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.3 | 69.2 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *75.7* | *18.0-148* | |

## L1742731-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742731-04 06/06/24 22:23 • (MS) R4078449-3 06/06/24 22:37 • (MSD) R4078449-4 06/06/24 22:51

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 26.5 | 24.4 | 39.9 | 31.3 | 58.4 | 26.1 | 20 | 50.0-150 | | J3 J6 | 24.0 | 20 |
| C22-C32 Hydrocarbons | 24.5 | 279 | 183 | 117 | 0.000 | 0.000 | 20 | 50.0-150 | V | J3 V | 44.0 | 20 |
| *(S) o-Terphenyl* | | | | | *89.0* | *78.9* | | *18.0-148* | J7 | J7 | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract

## Method Blank (MB)

(MB) R4078157-1 06/05/24 21:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *129* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *105* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4078157-2 06/05/24 21:34

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.112 | 67.1 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.136 | 81.4 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *94.0* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *78.4* | *10.0-139* | |

## L1741452-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741452-01 06/05/24 21:44 • (MS) R4078157-3 06/05/24 21:54 • (MSD) R4078157-4 06/05/24 22:03

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.166 | U | 0.0725 | 0.0788 | 43.7 | 48.0 | 1 | 10.0-160 | | | 8.33 | 37 |
| PCB 1260 | 0.166 | U | 0.0687 | 0.0671 | 41.4 | 40.9 | 1 | 10.0-160 | | | 2.36 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *42.8* | *41.5* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *57.0* | *60.2* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4078745-2 06/07/24 11:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

# QUALITY CONTROL SUMMARY

L1741491-01,02,03

## Method Blank (MB)

(MB) R4078745-2 06/07/24 11:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *61.3* | | | *12.0-120* |
| *(S) Phenol-d5* | *55.6* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *52.6* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *61.9* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *65.9* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *68.8* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078745-1 06/07/24 10:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.466 | 70.0 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.486 | 73.0 | 40.0-120 | |
| Anthracene | 0.666 | 0.489 | 73.4 | 42.0-120 | |
| Benzidine | 1.33 | 0.512 | 38.5 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.508 | 76.3 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.500 | 75.1 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.512 | 76.9 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.529 | 79.4 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.516 | 77.5 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.372 | 55.9 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.422 | 63.4 | 16.0-120 | |

Cp Tc Ss Cn Ds Sr Qc Gl Al Sc

## Laboratory Control Sample (LCS)

(LCS) R4078745-1 06/07/24 10:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.414 | 62.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.507 | 76.1 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.455 | 68.3 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.505 | 75.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.493 | 74.0 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.552 | 82.9 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.421 | 63.2 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.411 | 61.7 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.408 | 61.3 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.930 | 69.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.571 | 85.7 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.527 | 79.1 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.502 | 75.4 | 44.0-120 | |
| Fluorene | 0.666 | 0.487 | 73.1 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.500 | 75.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.382 | 57.4 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.498 | 74.8 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.402 | 60.4 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.502 | 75.4 | 45.0-120 | |
| Isophorone | 0.666 | 0.367 | 55.1 | 23.0-120 | |
| Naphthalene | 0.666 | 0.356 | 53.5 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.359 | 53.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.378 | 56.8 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.480 | 72.1 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.429 | 64.4 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.477 | 71.6 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.506 | 76.0 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.517 | 77.6 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.493 | 74.0 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.485 | 72.8 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.483 | 72.5 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.523 | 78.5 | 40.0-120 | |
| Pyrene | 0.666 | 0.496 | 74.5 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.378 | 56.8 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.380 | 57.1 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.459 | 68.9 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.392 | 58.9 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.440 | 66.1 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.554 | 83.2 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.517 | 77.6 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4078745-1 06/07/24 10:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.444 | 66.7 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.545 | 81.8 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.507 | 76.1 | 29.0-120 | |
| Phenol | 0.666 | 0.424 | 63.7 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.477 | 71.6 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *69.1* | *12.0-120* | |
| *(S) Phenol-d5* | | | *62.5* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *46.8* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *68.5* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *85.1* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *73.6* | *10.0-120* | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately
Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

Pres Chk

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-G1-1-1.0 | Grab | SS | 1.0 | 05/29/24 | 1435 | #2 | ○ | ○ | ● | ● | ● | | | -01 |
| BS-G1-1-2.0 | Grab | SS | 2.0 | | 1440 | #3 | ○ | ○ | ● | ● | ● | ● | | -02 |
| BS-G1-1-3.0 | Grab | SS | 3.0 | | 1442 | #3 | ● | ● | ● | ○ | ● | ● | | -03 |
| BS-G1-1-4.0 | Grab | SS | 4.0 | | 1445 | #3 | ○ | ○ | ○ | ○ | ○ | ○ | | -04 |
| BS-G1-1-5.0 | Grab | SS | 5.0 | | 1450 | #3 | ● | ● | ○ | ○ | ○ | ● | | -05 |
| | | SS | | | | | | | | | | | | |
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Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1741491

Table # H038

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| If Applicable | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |
| RAD Screen <0.5 mR/hr: | | Y N |

| | Date: | Time: | | |
|---|---|---|---|---|
| Relinquished by : (Signature) | 05/29/24 | 15:00 | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
| Relinquished by : (Signature) | 5/29/24 | 16:30 | Received by: (Signature) FEDEX | Temp: 0.8+0.1=0.9 °C Bottles Received: 14 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Easton Organ | Date: 5/30/24 Time: 0900 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

| Tracking Numbers | Temperature |
|---|---|
| NA | 1.0+0.1=1.1 EDA6 |
| 6841 8348 8893 | 0.8+0.1=0.9 EDA6 |
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Name

5/30/24

Date

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1741921 |
| Samples Received: | 05/31/2024 |
| Project Number: | ROUX ASSOCIATES, IN |
| Description: | AB&I Redevelopment |
| Site: | AB&I FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G/UC-I2-1-1.0 L1741921-01 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:20 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 18:40 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:32 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304583 | 2 | 06/12/24 16:14 | 06/19/24 07:25 | LTB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 10 | 06/11/24 07:14 | 06/12/24 12:08 | ALM | Mt. Juliet, TN |

## G/UC-I2-1-2.0 L1741921-02 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:25 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 18:42 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:34 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 1 | 05/30/24 10:25 | 06/11/24 12:04 | JBE | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 1 | 06/11/24 07:14 | 06/12/24 02:26 | ALM | Mt. Juliet, TN |

## G/UC-I2-1-3.0 L1741921-03 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:30 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 18:19 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:36 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 10:30 | 06/05/24 22:24 | CDD | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 18:18 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 1 | 06/11/24 07:14 | 06/12/24 02:46 | ALM | Mt. Juliet, TN |

## G/UC-I2-1-4.0 L1741921-04 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2303966 | 1 | 06/13/24 09:24 | 06/13/24 09:37 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2303940 | 34 | 05/30/24 10:40 | 06/13/24 00:35 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1.36 | 05/30/24 10:40 | 06/13/24 01:00 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 03:56 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 1 | 06/13/24 06:13 | 06/13/24 21:28 | DSH | Mt. Juliet, TN |

## G/UC-I2-1-5.0 L1741921-05 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:45 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 10:45 | 06/05/24 22:46 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 1 | 05/30/24 10:45 | 06/11/24 12:26 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 15:10 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-I2-1-8.0 L1741921-06 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:50 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2303966 | 1 | 06/13/24 09:24 | 06/13/24 09:37 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 10:50 | 06/13/24 09:52 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 10:50 | 06/13/24 01:20 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 02:01 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 10 | 06/13/24 06:13 | 06/14/24 12:26 | DSH | Mt. Juliet, TN |

## G/UC-I2-1-10.0 L1741921-07 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:55 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 1 | 05/30/24 10:55 | 06/11/24 12:48 | JBE | Mt. Juliet, TN |

## G/UC-H4-1-1.0 L1741921-08 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 12:15 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300491 | 1 | 06/07/24 12:32 | 06/07/24 12:45 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2300583 | 1 | 06/07/24 13:29 | 06/08/24 17:45 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300701 | 1 | 06/09/24 08:15 | 06/09/24 17:42 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 11:32 | HMH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 1 | 06/11/24 07:14 | 06/12/24 03:27 | ALM | Mt. Juliet, TN |

## G/UC-H4-1-2.0 L1741921-09 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 12:25 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300492 | 1 | 06/10/24 12:45 | 06/10/24 12:51 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2300583 | 1 | 06/07/24 13:29 | 06/08/24 18:00 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300701 | 1 | 06/09/24 08:15 | 06/09/24 17:43 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 1 | 05/30/24 12:25 | 06/11/24 13:10 | JBE | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 2 | 06/10/24 16:37 | 06/11/24 11:33 | ALM | Mt. Juliet, TN |

## G/UC-H4-1-3.0 L1741921-10 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 12:30 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300492 | 1 | 06/10/24 12:45 | 06/10/24 12:51 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2300583 | 1 | 06/07/24 13:29 | 06/08/24 18:09 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300701 | 1 | 06/09/24 08:15 | 06/09/24 17:45 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302200 | 25 | 05/30/24 12:30 | 06/10/24 15:40 | NCD | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 19:30 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 2 | 06/10/24 16:37 | 06/11/24 04:00 | ALM | Mt. Juliet, TN |

## G/UC-H4-1-4.0 L1741921-11 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 12:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2303966 | 1 | 06/13/24 09:24 | 06/13/24 09:37 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 12:40 | 06/13/24 10:11 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 12:40 | 06/13/24 01:39 | ACG | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-H4-1-4.0 L1741921-11 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 12:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 03:27 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 2 | 06/13/24 06:13 | 06/13/24 23:32 | DSH | Mt. Juliet, TN |

## G/UC-H4-1-5.0 L1741921-12 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 12:50 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300492 | 1 | 06/10/24 12:45 | 06/10/24 12:51 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302200 | 25 | 05/30/24 12:50 | 06/10/24 15:59 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 1 | 05/30/24 12:50 | 06/11/24 13:32 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 12:46 | JAS | Mt. Juliet, TN |

## G-H3-1-1.0 L1741921-13 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:05 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300492 | 1 | 06/10/24 12:45 | 06/10/24 12:51 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2300583 | 1 | 06/07/24 13:29 | 06/08/24 18:12 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300701 | 1 | 06/09/24 08:15 | 06/09/24 17:50 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 11:41 | HMH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 5 | 06/12/24 16:14 | 06/19/24 01:23 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 10 | 06/10/24 16:37 | 06/11/24 06:49 | ALM | Mt. Juliet, TN |

## G-H3-1-2.0 L1741921-14 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:10 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300492 | 1 | 06/10/24 12:45 | 06/10/24 12:51 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2300583 | 1 | 06/07/24 13:29 | 06/08/24 18:14 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300701 | 1 | 06/09/24 08:15 | 06/09/24 17:52 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303955 | 2 | 05/30/24 10:10 | 06/13/24 00:28 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 12:08 | JMB | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 5 | 06/12/24 16:14 | 06/14/24 16:12 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 2 | 06/10/24 16:37 | 06/11/24 04:20 | ALM | Mt. Juliet, TN |

## G-H3-1-3.0 L1741921-15 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:25 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300492 | 1 | 06/10/24 12:45 | 06/10/24 12:51 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2300583 | 1 | 06/07/24 13:29 | 06/08/24 18:17 | SDG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300701 | 1 | 06/09/24 08:15 | 06/09/24 17:54 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302200 | 25 | 05/30/24 10:25 | 06/10/24 16:19 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 1 | 05/30/24 10:25 | 06/11/24 13:54 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 40 | 06/10/24 16:47 | 06/11/24 20:42 | JAS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2314791 | 1 | 07/01/24 17:34 | 07/01/24 23:17 | NWH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 10 | 06/10/24 16:37 | 06/11/24 07:10 | ALM | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-H3-1-4.0 L1741921-16 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:35 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2303966 | 1 | 06/13/24 09:24 | 06/13/24 09:37 | JAV | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 19:55 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 10:35 | 06/13/24 10:30 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 10:35 | 06/13/24 01:59 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 04:25 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 1 | 06/13/24 06:13 | 06/13/24 21:07 | DSH | Mt. Juliet, TN |

## G-H3-1-5.0 L1741921-17 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 10:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300492 | 1 | 06/10/24 12:45 | 06/10/24 12:51 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302200 | 25 | 05/30/24 10:40 | 06/10/24 16:38 | NCD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 1 | 05/30/24 10:40 | 06/11/24 14:16 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 13:43 | JAS | Mt. Juliet, TN |

## UC-H1-1-1.0 L1741921-18 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:10 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 18:45 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:41 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 12:17 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 2 | 06/10/24 16:37 | 06/11/24 04:41 | ALM | Mt. Juliet, TN |

## UC-H1-1-2.0 L1741921-19 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:15 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 18:47 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:42 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302420 | 1 | 05/30/24 08:15 | 06/11/24 14:38 | JBE | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 2 | 06/10/24 16:37 | 06/11/24 11:54 | ALM | Mt. Juliet, TN |

## UC-H1-1-3.0 L1741921-20 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:20 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 18:50 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:24 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 08:20 | 06/05/24 23:08 | WHS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 18:47 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 1 | 06/11/24 07:14 | 06/12/24 03:47 | ALM | Mt. Juliet, TN |

# SAMPLE SUMMARY

## UC-H1-1-4.0 L1741921-21 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:25 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304167 | 1 | 06/13/24 07:30 | 06/13/24 07:36 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 08:25 | 06/13/24 10:50 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 08:25 | 06/13/24 02:18 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 03:42 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 2 | 06/13/24 06:13 | 06/13/24 23:53 | DSH | Mt. Juliet, TN |

## UC-H1-1-5.0 L1741921-22 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:30 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 08:30 | 06/05/24 23:30 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 08:30 | 06/11/24 20:26 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 13:00 | JAS | Mt. Juliet, TN |

## UC-H1-1-8.0 L1741921-23 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:45 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304167 | 1 | 06/13/24 07:30 | 06/13/24 07:36 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 08:45 | 06/13/24 11:09 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 08:45 | 06/13/24 02:38 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 02:44 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 20 | 06/13/24 06:13 | 06/14/24 11:21 | DSH | Mt. Juliet, TN |

## UC-H1-1-10.0 L1741921-24 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:50 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297630 | 1 | 06/03/24 15:59 | 06/03/24 16:04 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 08:50 | 06/11/24 20:44 | JAH | Mt. Juliet, TN |

## BS-I3-1-1.0 L1741921-25 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:30 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 18:52 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:44 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 12:26 | HMH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/19/24 00:44 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 2 | 06/11/24 07:14 | 06/12/24 04:27 | ALM | Mt. Juliet, TN |

## BS-I3-1-2.0 L1741921-26 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 18:55 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:46 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 14:40 | 06/11/24 21:03 | JAH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## BS-I3-1-2.0 L1741921-26 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2314791 | 1 | 07/01/24 17:34 | 07/01/24 23:25 | NWH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 2 | 06/11/24 07:14 | 06/12/24 04:47 | ALM | Mt. Juliet, TN |

## BS-I3-1-3.0 L1741921-27 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:50 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:02 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:47 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 14:50 | 06/05/24 23:51 | WHS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 2 | 06/10/24 16:47 | 06/11/24 22:59 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 2 | 06/11/24 07:14 | 06/12/24 05:08 | ALM | Mt. Juliet, TN |

## BS-I3-1-4.0 L1741921-28 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 15:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304167 | 1 | 06/13/24 07:30 | 06/13/24 07:36 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 15:00 | 06/13/24 11:29 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 15:00 | 06/13/24 02:58 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 04:11 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 10 | 06/13/24 06:13 | 06/14/24 11:00 | DSH | Mt. Juliet, TN |

## BS-I3-1-5.0 L1741921-29 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 15:10 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 15:10 | 06/06/24 00:13 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 15:10 | 06/11/24 21:22 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 14:55 | JAS | Mt. Juliet, TN |

## TB-053024 L1741921-30 GW

Collected by: JA/DB | Collected date/time: 05/30/24 12:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2299510 | 1 | 06/06/24 11:54 | 06/06/24 11:54 | DYW | Mt. Juliet, TN |

## G-H2-1-1.0 L1741921-31 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:10 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:04 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:49 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304583 | 10 | 06/12/24 16:14 | 06/21/24 02:20 | LJD | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304583 | 2 | 06/12/24 16:14 | 06/19/24 09:11 | LTB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 20 | 06/11/24 07:14 | 06/12/24 05:48 | ALM | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G-H2-1-2.0 L1741921-32 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:15 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:07 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:51 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 09:15 | 06/11/24 21:41 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2302475 | 10 | 06/11/24 07:14 | 06/12/24 06:08 | ALM | Mt. Juliet, TN |

## G-H2-1-3.0 L1741921-33 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:20 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:09 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:33 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:41 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 5 | 06/07/24 17:37 | 06/10/24 09:10 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 09:20 | 06/06/24 00:34 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 09:20 | 06/11/24 22:01 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 13:54 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 22:41 | DSH | Mt. Juliet, TN |

## G-H2-1-4.0 L1741921-34 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:30 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304167 | 1 | 06/13/24 07:30 | 06/13/24 07:36 | KDW | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 20:14 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 09:30 | 06/13/24 11:48 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 09:30 | 06/13/24 03:17 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 04:54 | KDB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 10 | 06/13/24 16:23 | 06/14/24 18:34 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 2 | 06/13/24 06:13 | 06/14/24 10:38 | DSH | Mt. Juliet, TN |

## G-H2-1-5.0 L1741921-35 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 09:40 | 06/06/24 00:56 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 09:40 | 06/11/24 22:19 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 50 | 06/12/24 19:34 | 06/13/24 15:21 | JAS | Mt. Juliet, TN |

## G/UC-I4-1-1.0 L1741921-36 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:20 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:12 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:35 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:43 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 12:43 | HMH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/19/24 00:54 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 19:49 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-I4-1-2.0 L1741921-37 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:30 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297634 | 1 | 06/03/24 15:52 | 06/03/24 15:57 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:14 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:37 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:48 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 13:30 | 06/11/24 22:38 | JAH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2314791 | 1 | 07/01/24 17:34 | 07/01/24 23:34 | NWH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 22:16 | DSH | Mt. Juliet, TN |

## G/UC-I4-1-3.0 L1741921-38 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:17 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 5 | 06/07/24 17:37 | 06/10/24 09:50 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25.3 | 05/30/24 13:40 | 06/06/24 01:17 | WHS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 14:08 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/14/24 00:43 | DSH | Mt. Juliet, TN |

## G/UC-I4-1-4.0 L1741921-39 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:50 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304167 | 1 | 06/13/24 07:30 | 06/13/24 07:36 | KDW | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 20:16 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 13:50 | 06/13/24 12:08 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 13:50 | 06/13/24 03:37 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 18:06 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 2 | 06/13/24 06:13 | 06/14/24 00:13 | DSH | Mt. Juliet, TN |

## G/UC-I4-1-5.0 L1741921-40 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 14:00 | 06/06/24 01:39 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 14:00 | 06/11/24 22:57 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 11:15 | JAS | Mt. Juliet, TN |

## G/UC-I4-1-8.0 L1741921-41 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:05 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304168 | 1 | 06/13/24 07:55 | 06/13/24 08:01 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304284 | 25 | 05/30/24 14:05 | 06/13/24 12:27 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 14:05 | 06/13/24 03:56 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 01:46 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 1 | 06/13/24 06:13 | 06/13/24 20:25 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-I4-1-10.0 L1741921-42 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:10 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 14:10 | 06/11/24 23:16 | JAH | Mt. Juliet, TN |

## BS-I1-1-1.0 L1741921-43 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:15 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:19 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:44 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:51 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 12:52 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 23:05 | DSH | Mt. Juliet, TN |

## BS-I1-1-2.0 L1741921-44 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:20 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:22 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:46 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:53 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 08:20 | 06/11/24 23:35 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 20:14 | DSH | Mt. Juliet, TN |

## BS-I1-1-3.0 L1741921-45 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:25 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:24 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:52 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 08:25 | 06/06/24 02:00 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1 | 05/30/24 08:25 | 06/11/24 23:54 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 20 | 06/12/24 19:34 | 06/13/24 20:17 | KDB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 23:29 | DSH | Mt. Juliet, TN |

## BS-I1-1-4.0 L1741921-46 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:30 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304168 | 1 | 06/13/24 07:55 | 06/13/24 08:01 | KDW | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 20:18 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304093 | 30.3 | 05/30/24 08:30 | 06/13/24 03:17 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1.21 | 05/30/24 08:30 | 06/13/24 04:15 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 40 | 06/13/24 16:23 | 06/14/24 18:20 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 10 | 06/13/24 06:13 | 06/13/24 22:51 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## BS-I1-1-5.0 L1741921-47 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 08:35 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25.5 | 05/30/24 08:35 | 06/06/24 02:22 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303115 | 1.02 | 05/30/24 08:35 | 06/12/24 00:13 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 5 | 06/12/24 19:34 | 06/13/24 14:52 | JAS | Mt. Juliet, TN |

## G/UC-I3-1-1.0 L1741921-48 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297785 | 1 | 06/05/24 08:22 | 06/05/24 19:31 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:54 | ZSA | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 13:01 | HMH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/19/24 01:04 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 2 | 06/13/24 06:40 | 06/14/24 02:21 | DSH | Mt. Juliet, TN |

## G/UC-I3-1-2.0 L1741921-49 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:05 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297782 | 1 | 06/03/24 16:55 | 06/04/24 09:47 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299945 | 1 | 06/06/24 22:22 | 06/09/24 08:56 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 14:05 | 06/11/24 19:26 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2314791 | 1 | 07/01/24 17:34 | 07/01/24 23:43 | NWH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/14/24 00:18 | DSH | Mt. Juliet, TN |

## G/UC-I3-1-3.0 L1741921-50 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:15 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297782 | 1 | 06/03/24 16:55 | 06/04/24 09:50 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:47 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:55 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 14:15 | 06/06/24 02:43 | WHS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 13:11 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 20:38 | DSH | Mt. Juliet, TN |

## G/UC-I3-1-4.0 L1741921-51 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:20 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304168 | 1 | 06/13/24 07:55 | 06/13/24 08:01 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304093 | 27.5 | 05/30/24 14:20 | 06/13/24 03:40 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1.1 | 05/30/24 14:20 | 06/13/24 04:35 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 01:32 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 2 | 06/13/24 06:13 | 06/13/24 23:11 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-I3-1-5.0 L1741921-52 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:30 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 14:30 | 06/06/24 03:05 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 14:30 | 06/11/24 19:45 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 11:44 | JAS | Mt. Juliet, TN |

## G/UC-I3-1-8.0 L1741921-53 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:35 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304168 | 1 | 06/13/24 07:55 | 06/13/24 08:01 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304093 | 25 | 05/30/24 14:35 | 06/13/24 04:03 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304049 | 1 | 05/30/24 14:35 | 06/13/24 04:54 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 02:15 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 1 | 06/13/24 06:13 | 06/13/24 20:05 | DSH | Mt. Juliet, TN |

## G/UC-I3-1-10.0 L1741921-54 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 14:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 14:40 | 06/11/24 20:04 | JHH | Mt. Juliet, TN |

## EB-053024 L1741921-55 GW

Collected by: JA/DB | Collected date/time: 05/30/24 11:19 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG2296703 | 1 | 06/02/24 15:07 | 06/03/24 12:20 | NDL | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2306181 | 1 | 06/17/24 08:19 | 06/18/24 17:15 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2303210 | 1 | 06/12/24 03:27 | 06/12/24 03:27 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2299510 | 1 | 06/06/24 12:15 | 06/06/24 12:15 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 3511/8015 | WG2296791 | 1 | 06/01/24 19:41 | 06/02/24 14:07 | DMG | Mt. Juliet, TN |

## BS-I2-1-1.0 L1741921-56 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297782 | 1 | 06/03/24 16:55 | 06/04/24 09:52 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:49 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:56 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304583 | 2 | 06/12/24 16:14 | 06/19/24 07:36 | LTB | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304583 | 2 | 06/12/24 16:14 | 06/19/24 23:10 | LTB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 10 | 06/13/24 06:40 | 06/14/24 12:04 | DSH | Mt. Juliet, TN |

## BS-I2-1-2.0 L1741921-57 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:05 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297782 | 1 | 06/03/24 16:55 | 06/04/24 09:32 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:51 | DJS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## BS-I2-1-2.0 L1741921-57 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:05 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:58 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 13:05 | 06/11/24 20:24 | JHH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 21:03 | DSH | Mt. Juliet, TN |

## BS-I2-1-3.0 L1741921-58 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:15 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297782 | 1 | 06/03/24 16:55 | 06/04/24 09:55 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:53 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 10:00 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 13:15 | 06/06/24 03:26 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 13:15 | 06/11/24 20:43 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 12:13 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 21:27 | DSH | Mt. Juliet, TN |

## BS-I2-1-4.0 L1741921-59 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:20 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304168 | 1 | 06/13/24 07:55 | 06/13/24 08:01 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304093 | 25.5 | 05/30/24 13:20 | 06/13/24 04:26 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304116 | 1.02 | 05/30/24 13:20 | 06/13/24 03:08 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 01:18 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 1 | 06/13/24 06:13 | 06/13/24 20:46 | DSH | Mt. Juliet, TN |

## BS-I2-1-5.0 L1741921-60 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 13:25 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 13:25 | 06/06/24 03:48 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 13:25 | 06/11/24 21:02 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 11:29 | JAS | Mt. Juliet, TN |

## G/UC-I1-1-1.0 L1741921-61 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:15 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297782 | 1 | 06/03/24 16:55 | 06/04/24 09:57 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:54 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 10:01 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 13:19 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 21:52 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-I1-1-2.0 L1741921-62 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:20 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297782 | 1 | 06/03/24 16:55 | 06/04/24 10:00 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:25 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 09:33 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303979 | 1.16 | 05/30/24 09:20 | 06/13/24 02:28 | JHH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/14/24 11:43 | DSH | Mt. Juliet, TN |

## G/UC-I1-1-3.0 L1741921-63 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:25 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2297782 | 1 | 06/03/24 16:55 | 06/04/24 10:02 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/09/24 19:56 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299939 | 1 | 06/07/24 17:37 | 06/10/24 10:03 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 09:25 | 06/06/24 04:10 | WHS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 14:23 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 2 | 06/13/24 06:40 | 06/14/24 01:07 | DSH | Mt. Juliet, TN |

## G/UC-I1-1-4.0 L1741921-64 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:32 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304168 | 1 | 06/13/24 07:55 | 06/13/24 08:01 | KDW | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2315127 | 1 | 07/01/24 13:07 | 07/01/24 20:20 | ZSA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304093 | 28 | 05/30/24 09:32 | 06/13/24 04:49 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304116 | 1.12 | 05/30/24 09:32 | 06/13/24 03:28 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 02:58 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 1 | 06/13/24 06:13 | 06/13/24 21:48 | DSH | Mt. Juliet, TN |

## G/UC-I1-1-5.0 L1741921-65 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:40 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297639 | 1 | 06/03/24 15:15 | 06/03/24 15:22 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 09:40 | 06/06/24 04:31 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 09:40 | 06/11/24 21:21 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 12:27 | JAS | Mt. Juliet, TN |

## G/UC-I1-1-8.0 L1741921-66 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:45 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304168 | 1 | 06/13/24 07:55 | 06/13/24 08:01 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304093 | 25 | 05/30/24 09:45 | 06/13/24 05:12 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304116 | 1 | 05/30/24 09:45 | 06/13/24 03:49 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 00:34 | KDB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 1 | 06/13/24 06:13 | 06/13/24 22:30 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-I1-1-10.0 L1741921-67 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 09:50 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297640 | 1 | 06/03/24 16:05 | 06/03/24 16:12 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 09:50 | 06/11/24 21:40 | JHH | Mt. Juliet, TN |

## G/BS-H1-1-1.0 L1741921-68 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 00:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298445 | 1 | 06/04/24 17:12 | 06/04/24 17:22 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2298562 | 1 | 06/05/24 18:53 | 06/07/24 18:26 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299845 | 1 | 06/11/24 10:39 | 06/11/24 18:31 | DJS | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2303247 | 1 | 06/12/24 16:14 | 06/13/24 13:28 | JMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 1 | 06/13/24 06:40 | 06/13/24 23:54 | DSH | Mt. Juliet, TN |

## G/BS-H1-1-2.0 L1741921-69 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 00:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298445 | 1 | 06/04/24 17:12 | 06/04/24 17:22 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2298562 | 1 | 06/05/24 18:53 | 06/07/24 18:29 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299845 | 1 | 06/11/24 10:39 | 06/11/24 18:34 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 00:00 | 06/11/24 21:59 | JHH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 10 | 06/13/24 06:40 | 06/14/24 03:58 | DSH | Mt. Juliet, TN |

## G/BS-H1-1-3.0 L1741921-70 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 00:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298445 | 1 | 06/04/24 17:12 | 06/04/24 17:22 | KDW | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2298562 | 1 | 06/05/24 18:53 | 06/07/24 18:32 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2299845 | 1 | 06/11/24 10:39 | 06/11/24 18:37 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302673 | 55.5 | 05/30/24 00:00 | 06/11/24 13:29 | CDD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 8 | 05/30/24 00:00 | 06/11/24 22:55 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 13:25 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2303251 | 20 | 06/13/24 06:40 | 06/14/24 02:45 | DSH | Mt. Juliet, TN |

## G/BS-H1-1-4.0 L1741921-71 Solid

Collected by: JA/DB | Collected date/time: 05/30/24 00:00 | Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2304168 | 1 | 06/13/24 07:55 | 06/13/24 08:01 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2304524 | 25.3 | 05/30/24 00:00 | 06/13/24 14:02 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2304116 | 1.01 | 05/30/24 00:00 | 06/13/24 04:09 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2304127 | 1 | 06/13/24 16:23 | 06/14/24 03:13 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2304128 | 1 | 06/13/24 06:13 | 06/13/24 22:09 | DSH | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/BS-H1-1-5.0 L1741921-72 Solid

Collected by: JA/DB
Collected date/time: 05/30/24 00:00
Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298445 | 1 | 06/04/24 17:12 | 06/04/24 17:22 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2299409 | 25 | 05/30/24 00:00 | 06/06/24 05:14 | WHS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2303036 | 1 | 05/30/24 00:00 | 06/11/24 23:13 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2303234 | 1 | 06/12/24 19:34 | 06/13/24 11:58 | JAS | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/03/24 17:43
Level II Report - Version 2: 08/16/24 10:43

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I2-1-2.0 | L1741921-02 | Mercury | 0.139 | | 0.0200 | 0.0445 | 1 | 06/05/2024 18:42 | WG2297785 |
| G/UC-I2-1-3.0 | L1741921-03 | Mercury | 0.0592 | | 0.0238 | 0.0528 | 1 | 06/05/2024 18:19 | WG2297785 |
| G/UC-H4-1-1.0 | L1741921-08 | Mercury | 0.0525 | | 0.0192 | 0.0427 | 1 | 06/08/2024 17:45 | WG2300583 |
| G/UC-H4-1-2.0 | L1741921-09 | Mercury | 0.211 | | 0.0206 | 0.0457 | 1 | 06/08/2024 18:00 | WG2300583 |
| G/UC-H4-1-3.0 | L1741921-10 | Mercury | 0.360 | | 0.0204 | 0.0453 | 1 | 06/08/2024 18:09 | WG2300583 |
| G-H3-1-1.0 | L1741921-13 | Mercury | 0.275 | | 0.0198 | 0.0439 | 1 | 06/08/2024 18:12 | WG2300583 |
| G-H3-1-2.0 | L1741921-14 | Mercury | 0.159 | | 0.0200 | 0.0445 | 1 | 06/08/2024 18:14 | WG2300583 |
| G-H3-1-3.0 | L1741921-15 | Mercury | 0.215 | | 0.0228 | 0.0506 | 1 | 06/08/2024 18:17 | WG2300583 |
| UC-H1-1-1.0 | L1741921-18 | Mercury | 0.102 | | 0.0220 | 0.0488 | 1 | 06/05/2024 18:45 | WG2297785 |
| UC-H1-1-2.0 | L1741921-19 | Mercury | 0.118 | | 0.0206 | 0.0458 | 1 | 06/05/2024 18:47 | WG2297785 |
| UC-H1-1-3.0 | L1741921-20 | Mercury | 0.197 | | 0.0244 | 0.0542 | 1 | 06/05/2024 18:50 | WG2297785 |
| BS-I3-1-1.0 | L1741921-25 | Mercury | 0.232 | | 0.0207 | 0.0460 | 1 | 06/05/2024 18:52 | WG2297785 |
| BS-I3-1-2.0 | L1741921-26 | Mercury | 0.446 | | 0.0208 | 0.0462 | 1 | 06/05/2024 18:55 | WG2297785 |
| BS-I3-1-3.0 | L1741921-27 | Mercury | 0.138 | | 0.0209 | 0.0464 | 1 | 06/05/2024 19:02 | WG2297785 |
| G-H2-1-1.0 | L1741921-31 | Mercury | 0.206 | | 0.0210 | 0.0466 | 1 | 06/05/2024 19:04 | WG2297785 |
| G-H2-1-2.0 | L1741921-32 | Mercury | 0.0501 | | 0.0214 | 0.0475 | 1 | 06/05/2024 19:07 | WG2297785 |
| G/UC-I4-1-1.0 | L1741921-36 | Mercury | 0.440 | | 0.0208 | 0.0462 | 1 | 06/05/2024 19:12 | WG2297785 |
| G/UC-I4-1-2.0 | L1741921-37 | Mercury | 0.189 | | 0.0198 | 0.0439 | 1 | 06/05/2024 19:14 | WG2297785 |
| G/UC-I4-1-3.0 | L1741921-38 | Mercury | 0.0456 | J | 0.0215 | 0.0478 | 1 | 06/05/2024 19:17 | WG2297785 |
| BS-I1-1-1.0 | L1741921-43 | Mercury | 0.0515 | | 0.0190 | 0.0422 | 1 | 06/05/2024 19:19 | WG2297785 |
| BS-I1-1-2.0 | L1741921-44 | Mercury | 0.0284 | J | 0.0193 | 0.0429 | 1 | 06/05/2024 19:22 | WG2297785 |
| BS-I1-1-3.0 | L1741921-45 | Mercury | 0.0225 | J | 0.0212 | 0.0471 | 1 | 06/05/2024 19:24 | WG2297785 |
| G/UC-I3-1-1.0 | L1741921-48 | Mercury | 0.137 | | 0.0201 | 0.0446 | 1 | 06/05/2024 19:31 | WG2297785 |
| G/UC-I3-1-2.0 | L1741921-49 | Mercury | 0.151 | | 0.0228 | 0.0507 | 1 | 06/04/2024 09:47 | WG2297782 |
| G/UC-I3-1-3.0 | L1741921-50 | Mercury | 0.111 | | 0.0215 | 0.0478 | 1 | 06/04/2024 09:50 | WG2297782 |
| BS-I2-1-2.0 | L1741921-57 | Mercury | 0.193 | | 0.0200 | 0.0444 | 1 | 06/04/2024 09:32 | WG2297782 |
| BS-I2-1-3.0 | L1741921-58 | Mercury | 0.0607 | | 0.0223 | 0.0496 | 1 | 06/04/2024 09:55 | WG2297782 |
| G/UC-I1-1-1.0 | L1741921-61 | Mercury | 0.153 | | 0.0228 | 0.0507 | 1 | 06/04/2024 09:57 | WG2297782 |
| G/UC-I1-1-2.0 | L1741921-62 | Mercury | 0.196 | | 0.0212 | 0.0471 | 1 | 06/04/2024 10:00 | WG2297782 |
| G/UC-I1-1-3.0 | L1741921-63 | Mercury | 0.182 | | 0.0239 | 0.0531 | 1 | 06/04/2024 10:02 | WG2297782 |
| G/BS-H1-1-1.0 | L1741921-68 | Mercury | 0.0311 | J | 0.0221 | 0.0491 | 1 | 06/07/2024 18:26 | WG2298562 |
| G/BS-H1-1-2.0 | L1741921-69 | Mercury | 0.0486 | | 0.0193 | 0.0430 | 1 | 06/07/2024 18:29 | WG2298562 |
| G/BS-H1-1-3.0 | L1741921-70 | Mercury | 0.0546 | | 0.0239 | 0.0531 | 1 | 06/07/2024 18:32 | WG2298562 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I2-1-1.0 | L1741921-01 | Antimony | 14.6 | | 0.619 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Arsenic | 3.23 | | 0.590 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Barium | 288 | | 0.0970 | 0.569 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Beryllium | 0.514 | | 0.0359 | 0.228 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Cadmium | 3.44 | | 0.0536 | 0.569 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Chromium | 66.8 | | 0.151 | 1.14 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Cobalt | 8.53 | | 0.0923 | 1.14 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Copper | 90.7 | | 0.455 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Lead | 709 | | 0.237 | 0.569 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Molybdenum | 4.40 | | 0.124 | 0.569 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Nickel | 42.5 | | 0.150 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Selenium | 1.21 | J | 0.870 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Silver | 1.42 | B | 0.145 | 1.14 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Vanadium | 45.6 | | 0.576 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| G/UC-I2-1-1.0 | L1741921-01 | Zinc | 679 | | 0.947 | 5.69 | 1 | 06/09/2024 08:32 | WG2299945 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I2-1-2.0 | L1741921-02 | Antimony | 7.92 | | 0.605 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Barium | 103 | | 0.0947 | 0.556 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Beryllium | 0.192 | J | 0.0350 | 0.222 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Cadmium | 0.476 | J | 0.0524 | 0.556 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Chromium | 17.9 | | 0.148 | 1.11 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Cobalt | 7.31 | | 0.0902 | 1.11 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Copper | 30.6 | | 0.445 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Lead | 60.5 | | 0.231 | 0.556 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Molybdenum | 1.51 | | 0.121 | 0.556 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Nickel | 29.0 | | 0.147 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Silver | 0.454 | B J | 0.141 | 1.11 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Vanadium | 37.2 | | 0.563 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-2.0 | L1741921-02 | Zinc | 123 | | 0.925 | 5.56 | 1 | 06/09/2024 08:34 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Antimony | 6.98 | | 0.718 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Barium | 330 | | 0.112 | 0.660 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Beryllium | 0.837 | | 0.0416 | 0.264 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Chromium | 83.3 | | 0.176 | 1.32 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Cobalt | 13.8 | | 0.107 | 1.32 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Copper | 37.6 | | 0.528 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Lead | 13.9 | | 0.275 | 0.660 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Molybdenum | 0.422 | J | 0.144 | 0.660 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Nickel | 71.9 | | 0.174 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Selenium | 1.44 | J | 1.01 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Vanadium | 78.0 | | 0.668 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-I2-1-3.0 | L1741921-03 | Zinc | 77.8 | | 1.10 | 6.60 | 1 | 06/09/2024 08:36 | WG2299945 |
| G/UC-H4-1-1.0 | L1741921-08 | Antimony | 23.5 | | 0.580 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Barium | 62.9 | | 0.0909 | 0.533 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Beryllium | 0.0599 | J | 0.0336 | 0.213 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Chromium | 6.78 | | 0.142 | 1.07 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Cobalt | 11.6 | | 0.0865 | 1.07 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Copper | 44.2 | | 0.427 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Lead | 23.2 | | 0.222 | 0.533 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Molybdenum | 1.00 | | 0.116 | 0.533 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Nickel | 7.96 | | 0.141 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Silver | 0.633 | J | 0.135 | 1.07 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Vanadium | 58.4 | | 0.540 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-1.0 | L1741921-08 | Zinc | 77.1 | | 0.887 | 5.33 | 1 | 06/09/2024 17:42 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Antimony | 9.28 | | 0.621 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Arsenic | 4.61 | | 0.592 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Barium | 168 | | 0.0973 | 0.571 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Beryllium | 0.357 | | 0.0360 | 0.228 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Cadmium | 2.41 | | 0.0538 | 0.571 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Chromium | 58.4 | | 0.152 | 1.14 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Cobalt | 15.9 | | 0.0926 | 1.14 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Copper | 64.1 | | 0.457 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Lead | 123 | | 0.238 | 0.571 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Molybdenum | 0.504 | J | 0.125 | 0.571 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Nickel | 63.7 | | 0.151 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Silver | 0.387 | J | 0.145 | 1.14 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Vanadium | 50.4 | | 0.578 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| G/UC-H4-1-2.0 | L1741921-09 | Zinc | 156 | | 0.950 | 5.71 | 1 | 06/09/2024 17:43 | WG2300701 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-H4-1-3.0 | L1741921-10 | Antimony | 10.0 | | 0.616 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Arsenic | 5.55 | | 0.586 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Barium | 87.0 | | 0.0964 | 0.566 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Beryllium | 0.162 | J | 0.0357 | 0.226 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Chromium | 38.8 | | 0.151 | 1.13 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Cobalt | 19.0 | | 0.0918 | 1.13 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Copper | 63.2 | | 0.453 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Lead | 25.0 | | 0.235 | 0.566 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Molybdenum | 0.385 | J | 0.123 | 0.566 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Nickel | 31.1 | | 0.149 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Silver | 0.590 | J | 0.144 | 1.13 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Vanadium | 53.0 | | 0.573 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| G/UC-H4-1-3.0 | L1741921-10 | Zinc | 56.9 | | 0.942 | 5.66 | 1 | 06/09/2024 17:45 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Antimony | 9.73 | | 0.597 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Arsenic | 2.67 | | 0.568 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Barium | 200 | | 0.0935 | 0.549 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Beryllium | 0.408 | | 0.0346 | 0.219 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Cadmium | 0.886 | | 0.0517 | 0.549 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Chromium | 48.8 | | 0.146 | 1.10 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Cobalt | 9.54 | | 0.0890 | 1.10 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Copper | 57.5 | | 0.439 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Lead | 291 | | 0.228 | 0.549 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Molybdenum | 1.54 | | 0.120 | 0.549 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Nickel | 55.6 | | 0.145 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Selenium | 1.68 | J J | 0.838 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Silver | 0.467 | J | 0.139 | 1.10 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Vanadium | 43.1 | | 0.555 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-1.0 | L1741921-13 | Zinc | 309 | | 0.913 | 5.49 | 1 | 06/09/2024 17:50 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Antimony | 9.21 | | 0.605 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Arsenic | 1.85 | J | 0.576 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Barium | 166 | | 0.0947 | 0.556 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Beryllium | 0.494 | | 0.0350 | 0.222 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Cadmium | 0.829 | | 0.0524 | 0.556 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Chromium | 51.7 | | 0.148 | 1.11 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Cobalt | 8.62 | | 0.0901 | 1.11 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Copper | 44.6 | | 0.445 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Lead | 381 | | 0.231 | 0.556 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Molybdenum | 1.02 | | 0.121 | 0.556 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Nickel | 57.6 | | 0.147 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Silver | 0.339 | J | 0.141 | 1.11 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Vanadium | 37.3 | | 0.562 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-2.0 | L1741921-14 | Zinc | 280 | | 0.925 | 5.56 | 1 | 06/09/2024 17:52 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Antimony | 13.1 | | 0.689 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Arsenic | 1.12 | J | 0.656 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Barium | 269 | | 0.108 | 0.633 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Beryllium | 0.271 | | 0.0399 | 0.253 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Cadmium | 1.04 | | 0.0596 | 0.633 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Chromium | 57.8 | | 0.168 | 1.27 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Cobalt | 8.47 | | 0.103 | 1.27 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Copper | 102 | | 0.506 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Lead | 644 | | 0.263 | 0.633 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Molybdenum | 4.22 | | 0.138 | 0.633 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Nickel | 52.2 | | 0.167 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Silver | 0.430 | J | 0.161 | 1.27 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Vanadium | 39.3 | | 0.641 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| G-H3-1-3.0 | L1741921-15 | Zinc | 345 | | 1.05 | 6.33 | 1 | 06/09/2024 17:54 | WG2300701 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-H3-1-4.0 | L1741921-16 | Lead | 31.9 | | 0.257 | 0.617 | 1 | 07/01/2024 19:55 | WG2315127 |
| UC-H1-1-1.0 | L1741921-18 | Antimony | 8.78 | | 0.664 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Arsenic | 1.66 | J | 0.632 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Barium | 257 | | 0.104 | 0.610 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Beryllium | 0.388 | | 0.0384 | 0.244 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Cadmium | 0.115 | J | 0.0574 | 0.610 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Chromium | 63.0 | | 0.162 | 1.22 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Cobalt | 13.8 | | 0.0989 | 1.22 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Copper | 28.8 | | 0.488 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Lead | 35.6 | | 0.254 | 0.610 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Molybdenum | 0.227 | J | 0.133 | 0.610 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Nickel | 61.5 | | 0.161 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Silver | 0.607 | B J | 0.155 | 1.22 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Vanadium | 57.7 | | 0.617 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-1.0 | L1741921-18 | Zinc | 86.5 | | 1.01 | 6.10 | 1 | 06/09/2024 08:41 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Antimony | 10.4 | | 0.623 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Arsenic | 1.21 | J | 0.593 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Barium | 200 | | 0.0976 | 0.572 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Beryllium | 0.348 | | 0.0361 | 0.229 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Cadmium | 0.310 | J | 0.0539 | 0.572 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Chromium | 51.1 | | 0.152 | 1.14 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Cobalt | 11.3 | | 0.0929 | 1.14 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Copper | 33.4 | | 0.458 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Lead | 64.0 | | 0.238 | 0.572 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Molybdenum | 0.399 | J | 0.125 | 0.572 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Nickel | 43.1 | | 0.151 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Silver | 0.300 | B J | 0.145 | 1.14 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Vanadium | 57.2 | | 0.579 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-2.0 | L1741921-19 | Zinc | 110 | | 0.953 | 5.72 | 1 | 06/09/2024 08:42 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Antimony | 7.93 | J6 | 0.737 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Barium | 376 | J5 | 0.115 | 0.677 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Beryllium | 0.856 | | 0.0427 | 0.271 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Cadmium | 0.174 | J | 0.0638 | 0.677 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Chromium | 89.0 | | 0.180 | 1.35 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Cobalt | 15.3 | | 0.110 | 1.35 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Copper | 44.2 | | 0.542 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Lead | 48.7 | J3 J5 | 0.282 | 0.677 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Molybdenum | 1.55 | | 0.148 | 0.677 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Nickel | 77.6 | | 0.179 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Silver | 0.273 | B J | 0.172 | 1.35 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Vanadium | 82.2 | | 0.686 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| UC-H1-1-3.0 | L1741921-20 | Zinc | 113 | J3 J5 | 1.13 | 6.77 | 1 | 06/09/2024 08:24 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Antimony | 8.60 | | 0.626 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Barium | 315 | | 0.0980 | 0.575 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Beryllium | 0.258 | | 0.0362 | 0.230 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Cadmium | 1.13 | | 0.0542 | 0.575 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Chromium | 52.2 | | 0.153 | 1.15 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Cobalt | 15.7 | | 0.0933 | 1.15 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Copper | 54.1 | | 0.460 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Lead | 217 | | 0.239 | 0.575 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Molybdenum | 1.25 | | 0.125 | 0.575 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Nickel | 64.7 | | 0.152 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Silver | 0.475 | B J | 0.146 | 1.15 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Vanadium | 52.3 | | 0.582 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| BS-I3-1-1.0 | L1741921-25 | Zinc | 373 | | 0.957 | 5.75 | 1 | 06/09/2024 08:44 | WG2299945 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-I3-1-2.0 | L1741921-26 | Antimony | 6.21 | | 0.629 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Barium | 193 | | 0.0984 | 0.578 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Beryllium | 0.139 | J | 0.0364 | 0.231 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Cadmium | 1.20 | | 0.0544 | 0.578 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Chromium | 84.0 | | 0.154 | 1.16 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Cobalt | 26.3 | | 0.0937 | 1.16 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Copper | 101 | | 0.462 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Lead | 207 | | 0.240 | 0.578 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Molybdenum | 0.533 | J | 0.126 | 0.578 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Nickel | 61.1 | | 0.153 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Selenium | 1.21 | J | 0.883 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Silver | 1.01 | B J | 0.147 | 1.16 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Vanadium | 47.1 | | 0.585 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-2.0 | L1741921-26 | Zinc | 313 | | 0.961 | 5.78 | 1 | 06/09/2024 08:46 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Antimony | 6.81 | | 0.631 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Arsenic | 4.88 | | 0.601 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Barium | 214 | | 0.0988 | 0.580 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Beryllium | 0.413 | | 0.0365 | 0.232 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Cadmium | 0.515 | J | 0.0546 | 0.580 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Chromium | 79.0 | | 0.154 | 1.16 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Cobalt | 11.2 | | 0.0940 | 1.16 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Copper | 35.8 | | 0.464 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Lead | 109 | | 0.241 | 0.580 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Molybdenum | 0.892 | | 0.126 | 0.580 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Nickel | 57.5 | | 0.153 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Silver | 0.238 | B J | 0.147 | 1.16 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Vanadium | 47.3 | | 0.587 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| BS-I3-1-3.0 | L1741921-27 | Zinc | 210 | | 0.965 | 5.80 | 1 | 06/09/2024 08:47 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Antimony | 11.2 | | 0.633 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Arsenic | 1.40 | J | 0.603 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Barium | 219 | | 0.0992 | 0.582 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Beryllium | 0.337 | | 0.0367 | 0.233 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Cadmium | 5.90 | | 0.0548 | 0.582 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Chromium | 43.4 | | 0.155 | 1.16 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Cobalt | 15.3 | | 0.0944 | 1.16 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Copper | 78.8 | | 0.466 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Lead | 743 | | 0.242 | 0.582 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Molybdenum | 12.6 | | 0.127 | 0.582 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Nickel | 61.1 | | 0.154 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Silver | 1.37 | B | 0.148 | 1.16 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Vanadium | 62.0 | | 0.589 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-1.0 | L1741921-31 | Zinc | 339 | | 0.969 | 5.82 | 1 | 06/09/2024 08:49 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Antimony | 16.7 | | 0.646 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Arsenic | 2.94 | | 0.615 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Barium | 243 | | 0.101 | 0.593 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Beryllium | 0.587 | | 0.0374 | 0.237 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Cadmium | 7.58 | | 0.0559 | 0.593 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Chromium | 112 | | 0.158 | 1.19 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Cobalt | 9.20 | | 0.0962 | 1.19 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Copper | 204 | | 0.475 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Lead | 1620 | | 0.247 | 0.593 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Molybdenum | 19.2 | | 0.129 | 0.593 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Nickel | 77.1 | | 0.157 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Selenium | 2.81 | | 0.907 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Silver | 2.47 | B | 0.151 | 1.19 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-2.0 | L1741921-32 | Vanadium | 40.1 | | 0.601 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-H2-1-2.0 | L1741921-32 | Zinc | 1240 | | 0.987 | 5.93 | 1 | 06/09/2024 08:51 | WG2299945 |
| G-H2-1-3.0 | L1741921-33 | Antimony | 16.8 | | 0.635 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Arsenic | 15.1 | | 3.02 | 11.7 | 5 | 06/10/2024 09:10 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Barium | 207 | | 0.0994 | 0.584 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Beryllium | 0.571 | | 0.0368 | 0.233 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Cadmium | 11.4 | | 0.0550 | 0.584 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Chromium | 77.6 | | 0.155 | 1.17 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Cobalt | 2.07 | | 0.0947 | 1.17 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Copper | 173 | | 0.467 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Lead | 4540 | | 0.243 | 0.584 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Molybdenum | 6.02 | | 0.127 | 0.584 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Nickel | 22.9 | | 0.154 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Selenium | 7.42 | | 0.892 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Silver | 6.93 | | 0.148 | 1.17 | 1 | 06/10/2024 09:41 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Vanadium | 26.0 | | 0.591 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-3.0 | L1741921-33 | Zinc | 1880 | | 0.971 | 5.84 | 1 | 06/09/2024 19:33 | WG2299939 |
| G-H2-1-4.0 | L1741921-34 | Arsenic | 5.46 | | 0.612 | 2.36 | 1 | 07/01/2024 20:14 | WG2315127 |
| G-H2-1-4.0 | L1741921-34 | Lead | 53.8 | | 0.246 | 0.591 | 1 | 07/01/2024 20:14 | WG2315127 |
| G/UC-I4-1-1.0 | L1741921-36 | Antimony | 6.34 | | 0.628 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Barium | 85.8 | | 0.0984 | 0.577 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Beryllium | 0.0628 | J | 0.0364 | 0.231 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Cadmium | 3.15 | | 0.0544 | 0.577 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Chromium | 73.7 | | 0.154 | 1.15 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Cobalt | 20.0 | | 0.0936 | 1.15 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Copper | 141 | | 0.462 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Lead | 779 | | 0.240 | 0.577 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Molybdenum | 5.08 | | 0.126 | 0.577 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Nickel | 46.0 | | 0.152 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Silver | 1.61 | | 0.147 | 1.15 | 1 | 06/10/2024 09:43 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Vanadium | 26.8 | | 0.584 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-1.0 | L1741921-36 | Zinc | 629 | | 0.961 | 5.77 | 1 | 06/09/2024 19:35 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Antimony | 5.94 | | 0.598 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Barium | 55.1 | | 0.0936 | 0.549 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Beryllium | 0.152 | J | 0.0346 | 0.220 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Cadmium | 0.586 | | 0.0517 | 0.549 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Chromium | 34.7 | | 0.146 | 1.10 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Cobalt | 11.2 | | 0.0891 | 1.10 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Copper | 80.1 | | 0.439 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Lead | 172 | | 0.229 | 0.549 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Molybdenum | 1.44 | | 0.120 | 0.549 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Nickel | 28.3 | | 0.145 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Selenium | 1.22 | J | 0.839 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Silver | 0.740 | J | 0.140 | 1.10 | 1 | 06/10/2024 09:48 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Vanadium | 26.0 | | 0.556 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| G/UC-I4-1-2.0 | L1741921-37 | Zinc | 168 | | 0.914 | 5.49 | 1 | 06/09/2024 19:37 | WG2299939 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I4-1-3.0 | L1741921-38 | Antimony | 23.4 | | 3.25 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Arsenic | 38.3 | | 3.10 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Barium | 138 | | 0.509 | 2.99 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Beryllium | 0.284 | J | 0.189 | 1.20 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Cadmium | 2.15 | J | 0.282 | 2.99 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Chromium | 117 | | 0.795 | 5.98 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Cobalt | 16.7 | | 0.486 | 5.98 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Copper | 369 | | 2.39 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Lead | 437 | | 1.24 | 2.99 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Molybdenum | 7.73 | | 0.652 | 2.99 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Nickel | 84.5 | | 0.789 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Vanadium | 96.3 | | 3.03 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-3.0 | L1741921-38 | Zinc | 459 | | 4.97 | 29.9 | 5 | 06/10/2024 09:50 | WG2299939 |
| G/UC-I4-1-4.0 | L1741921-39 | Arsenic | 6.66 | | 0.632 | 2.44 | 1 | 07/01/2024 20:16 | WG2315127 |
| G/UC-I4-1-4.0 | L1741921-39 | Lead | 26.5 | | 0.254 | 0.610 | 1 | 07/01/2024 20:16 | WG2315127 |
| BS-I1-1-1.0 | L1741921-43 | Antimony | 15.9 | | 0.575 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Arsenic | 6.80 | | 0.547 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Barium | 118 | | 0.0900 | 0.528 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Beryllium | 0.727 | | 0.0333 | 0.211 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Chromium | 22.3 | | 0.140 | 1.06 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Cobalt | 5.26 | | 0.0856 | 1.06 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Copper | 23.7 | | 0.422 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Lead | 13.2 | | 0.220 | 0.528 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Molybdenum | 0.360 | J | 0.115 | 0.528 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Nickel | 22.4 | | 0.139 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Selenium | 2.70 | | 0.807 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Silver | 1.06 | | 0.134 | 1.06 | 1 | 06/10/2024 09:51 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Vanadium | 100 | | 0.534 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-1.0 | L1741921-43 | Zinc | 41.1 | | 0.879 | 5.28 | 1 | 06/09/2024 19:44 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Antimony | 9.36 | | 0.584 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Arsenic | 31.5 | | 0.556 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Barium | 905 | | 0.0914 | 0.537 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Beryllium | 0.326 | | 0.0338 | 0.215 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Cadmium | 2.09 | | 0.0506 | 0.537 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Chromium | 29.2 | | 0.143 | 1.07 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Cobalt | 7.69 | | 0.0870 | 1.07 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Copper | 71.8 | | 0.429 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Lead | 99.9 | | 0.223 | 0.537 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Molybdenum | 1.04 | | 0.117 | 0.537 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Nickel | 32.9 | | 0.142 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Selenium | 3.37 | | 0.820 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Vanadium | 50.8 | | 0.543 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-2.0 | L1741921-44 | Zinc | 243 | | 0.893 | 5.37 | 1 | 06/09/2024 19:46 | WG2299939 |
| BS-I1-1-3.0 | L1741921-45 | Antimony | 8.56 | | 0.641 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Arsenic | 59.5 | | 0.610 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Barium | 1550 | | 0.100 | 0.589 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Beryllium | 0.291 | | 0.0371 | 0.236 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Cadmium | 6.09 | | 0.0555 | 0.589 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Chromium | 52.0 | | 0.157 | 1.18 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Cobalt | 43.3 | | 0.0956 | 1.18 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Copper | 82.2 | | 0.471 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Lead | 150 | | 0.245 | 0.589 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Molybdenum | 1.48 | | 0.128 | 0.589 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Nickel | 104 | | 0.156 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Selenium | 4.43 | | 0.900 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Silver | 0.437 | B J | 0.150 | 1.18 | 1 | 06/09/2024 08:52 | WG2299945 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-I1-1-3.0 | L1741921-45 | Vanadium | 59.2 | | 0.596 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-3.0 | L1741921-45 | Zinc | 283 | | 0.980 | 5.89 | 1 | 06/09/2024 08:52 | WG2299945 |
| BS-I1-1-4.0 | L1741921-46 | Arsenic | 13.5 | | 0.749 | 2.89 | 1 | 07/01/2024 20:18 | WG2315127 |
| BS-I1-1-4.0 | L1741921-46 | Cobalt | 12.4 | | 0.117 | 1.45 | 1 | 07/01/2024 20:18 | WG2315127 |
| BS-I1-1-4.0 | L1741921-46 | Nickel | 56.5 | | 0.191 | 2.89 | 1 | 07/01/2024 20:18 | WG2315127 |
| G/UC-I3-1-1.0 | L1741921-48 | Antimony | 7.95 | | 0.606 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Arsenic | 5.14 | | 0.577 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Barium | 161 | | 0.0949 | 0.557 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Beryllium | 0.186 | J | 0.0351 | 0.223 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Cadmium | 1.12 | | 0.0525 | 0.557 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Chromium | 26.8 | | 0.148 | 1.11 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Cobalt | 6.54 | | 0.0903 | 1.11 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Copper | 55.8 | | 0.446 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Lead | 244 | | 0.232 | 0.557 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Molybdenum | 1.13 | | 0.121 | 0.557 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Nickel | 25.9 | | 0.147 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Silver | 0.374 | B J | 0.141 | 1.11 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Vanadium | 27.9 | | 0.564 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-1.0 | L1741921-48 | Zinc | 250 | | 0.927 | 5.57 | 1 | 06/09/2024 08:54 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Antimony | 3.05 | | 0.689 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Barium | 25.4 | | 0.108 | 0.633 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Cadmium | 0.193 | J | 0.0596 | 0.633 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Chromium | 75.2 | | 0.168 | 1.27 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Cobalt | 24.5 | | 0.103 | 1.27 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Copper | 127 | | 0.507 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Lead | 20.4 | | 0.263 | 0.633 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Nickel | 54.5 | | 0.167 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Selenium | 0.973 | J | 0.968 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Silver | 1.00 | B J | 0.161 | 1.27 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Vanadium | 36.7 | | 0.641 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-2.0 | L1741921-49 | Zinc | 53.9 | | 1.05 | 6.33 | 1 | 06/09/2024 08:56 | WG2299945 |
| G/UC-I3-1-3.0 | L1741921-50 | Antimony | 6.89 | | 0.651 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Arsenic | 1.42 | J | 0.619 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Barium | 173 | | 0.102 | 0.598 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Beryllium | 0.379 | | 0.0377 | 0.239 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Cadmium | 0.205 | J | 0.0563 | 0.598 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Chromium | 47.8 | | 0.159 | 1.20 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Cobalt | 10.0 | | 0.0970 | 1.20 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Copper | 22.0 | | 0.478 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Lead | 16.4 | | 0.249 | 0.598 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Molybdenum | 0.413 | J | 0.130 | 0.598 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Nickel | 50.6 | | 0.158 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Selenium | 1.02 | J | 0.914 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Vanadium | 41.7 | | 0.605 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| G/UC-I3-1-3.0 | L1741921-50 | Zinc | 57.5 | | 0.995 | 5.98 | 1 | 06/09/2024 19:47 | WG2299939 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-I2-1-1.0 | L1741921-56 | Antimony | 21.2 | | 0.614 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Arsenic | 2.19 | J | 0.585 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Barium | 316 | | 0.0962 | 0.564 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Beryllium | 1.11 | | 0.0356 | 0.226 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Cadmium | 3.04 | | 0.0532 | 0.564 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Chromium | 88.0 | | 0.150 | 1.13 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Cobalt | 4.36 | | 0.0916 | 1.13 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Copper | 79.7 | | 0.452 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Lead | 711 | | 0.235 | 0.564 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Molybdenum | 9.59 | | 0.123 | 0.564 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Nickel | 20.2 | | 0.149 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Selenium | 6.10 | | 0.862 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Silver | 3.75 | | 0.143 | 1.13 | 1 | 06/10/2024 09:56 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Thallium | 1.51 | J | 0.445 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Vanadium | 32.4 | | 0.571 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-1.0 | L1741921-56 | Zinc | 455 | | 0.939 | 5.64 | 1 | 06/09/2024 19:49 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Antimony | 9.09 | | 0.604 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Arsenic | 2.28 | | 0.575 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Barium | 128 | | 0.0946 | 0.555 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Beryllium | 0.204 | J | 0.0350 | 0.222 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Cadmium | 1.43 | | 0.0523 | 0.555 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Chromium | 22.1 | | 0.148 | 1.11 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Cobalt | 9.76 | | 0.0900 | 1.11 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Copper | 36.1 | | 0.444 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Lead | 106 | | 0.231 | 0.555 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Molybdenum | 1.26 | | 0.121 | 0.555 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Nickel | 27.5 | | 0.147 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Silver | 0.558 | J | 0.141 | 1.11 | 1 | 06/10/2024 09:58 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Vanadium | 33.9 | | 0.562 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-2.0 | L1741921-57 | Zinc | 265 | | 0.924 | 5.55 | 1 | 06/09/2024 19:51 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Antimony | 7.98 | | 0.675 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Barium | 154 | | 0.106 | 0.620 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Beryllium | 0.412 | | 0.0391 | 0.248 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Cadmium | 0.109 | J | 0.0584 | 0.620 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Chromium | 47.4 | | 0.165 | 1.24 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Cobalt | 10.6 | | 0.101 | 1.24 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Copper | 21.9 | | 0.496 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Lead | 10.1 | | 0.258 | 0.620 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Molybdenum | 0.481 | J | 0.135 | 0.620 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Nickel | 51.8 | | 0.164 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Silver | 0.228 | J | 0.158 | 1.24 | 1 | 06/10/2024 10:00 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Vanadium | 44.8 | | 0.628 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| BS-I2-1-3.0 | L1741921-58 | Zinc | 53.4 | | 1.03 | 6.20 | 1 | 06/09/2024 19:53 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Antimony | 10.0 | | 0.690 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Arsenic | 206 | | 0.657 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Barium | 1550 | | 0.108 | 0.634 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Beryllium | 0.333 | | 0.0399 | 0.254 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Cadmium | 5.90 | | 0.0597 | 0.634 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Chromium | 46.1 | | 0.169 | 1.27 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Cobalt | 12.5 | | 0.103 | 1.27 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Copper | 86.3 | | 0.507 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Lead | 213 | | 0.264 | 0.634 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Molybdenum | 3.50 | | 0.138 | 0.634 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Nickel | 47.6 | | 0.167 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Selenium | 3.52 | | 0.968 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Silver | 0.513 | J | 0.161 | 1.27 | 1 | 06/10/2024 10:01 | WG2299939 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I1-1-1.0 | L1741921-61 | Vanadium | 47.1 | | 0.641 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-1.0 | L1741921-61 | Zinc | 171 | | 1.05 | 6.34 | 1 | 06/09/2024 19:54 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Antimony | 8.61 | J6 | 0.640 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Arsenic | 415 | J3 J5 J6 | 0.609 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Barium | 2040 | J3 O1 V | 0.100 | 0.588 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Beryllium | 0.363 | | 0.0371 | 0.235 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Cadmium | 6.35 | | 0.0554 | 0.588 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Chromium | 53.6 | O1 | 0.156 | 1.18 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Cobalt | 13.7 | | 0.0954 | 1.18 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Copper | 164 | J3 J5 | 0.471 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Lead | 187 | J3 J5 J6 | 0.245 | 0.588 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Molybdenum | 1.75 | | 0.128 | 0.588 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Nickel | 57.8 | | 0.155 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Selenium | 4.40 | | 0.899 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Silver | 0.665 | J | 0.149 | 1.18 | 1 | 06/10/2024 09:33 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Vanadium | 47.9 | | 0.595 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-2.0 | L1741921-62 | Zinc | 249 | J3 J5 J6 O1 | 0.979 | 5.88 | 1 | 06/09/2024 19:25 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Antimony | 7.36 | | 0.722 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Arsenic | 170 | | 0.688 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Barium | 1230 | | 0.113 | 0.664 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Beryllium | 0.275 | | 0.0418 | 0.266 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Cadmium | 3.60 | | 0.0625 | 0.664 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Chromium | 47.0 | | 0.177 | 1.33 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Cobalt | 11.7 | | 0.108 | 1.33 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Copper | 111 | | 0.531 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Lead | 146 | | 0.276 | 0.664 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Molybdenum | 1.37 | | 0.145 | 0.664 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Nickel | 60.0 | | 0.175 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Selenium | 5.21 | | 1.01 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Silver | 0.383 | J | 0.169 | 1.33 | 1 | 06/10/2024 10:03 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Vanadium | 39.1 | | 0.672 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-3.0 | L1741921-63 | Zinc | 127 | | 1.10 | 6.64 | 1 | 06/09/2024 19:56 | WG2299939 |
| G/UC-I1-1-4.0 | L1741921-64 | Arsenic | 5.29 | | 0.688 | 2.66 | 1 | 07/01/2024 20:20 | WG2315127 |
| G/BS-H1-1-1.0 | L1741921-68 | Antimony | 1.33 | J | 0.667 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Arsenic | 3.66 | | 0.635 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Barium | 237 | | 0.104 | 0.613 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Beryllium | 0.509 | | 0.0386 | 0.245 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Cadmium | 0.0779 | J | 0.0578 | 0.613 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Chromium | 42.9 | | 0.163 | 1.23 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Cobalt | 14.6 | | 0.0995 | 1.23 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Copper | 29.0 | | 0.491 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Lead | 37.8 | | 0.255 | 0.613 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Nickel | 50.0 | | 0.162 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Vanadium | 48.9 | | 0.621 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| G/BS-H1-1-1.0 | L1741921-68 | Zinc | 68.3 | | 1.02 | 6.13 | 1 | 06/11/2024 18:31 | WG2299845 |

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-H1-1-2.0 | L1741921-69 | Antimony | 1.32 | J | 0.584 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Arsenic | 1.47 | J | 0.556 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Barium | 105 | | 0.0915 | 0.537 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Beryllium | 0.167 | J | 0.0338 | 0.215 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Cadmium | 0.219 | J | 0.0506 | 0.537 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Chromium | 12.8 | | 0.143 | 1.07 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Cobalt | 5.63 | | 0.0871 | 1.07 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Copper | 30.8 | | 0.430 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Lead | 58.6 | | 0.223 | 0.537 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Molybdenum | 0.249 | J | 0.117 | 0.537 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Nickel | 18.3 | | 0.142 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Selenium | 1.10 | J | 0.821 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Vanadium | 20.7 | | 0.543 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-2.0 | L1741921-69 | Zinc | 86.7 | | 0.894 | 5.37 | 1 | 06/11/2024 18:34 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Antimony | 1.68 | J | 0.722 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Arsenic | 3.72 | | 0.687 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Barium | 323 | | 0.113 | 0.663 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Beryllium | 0.785 | | 0.0418 | 0.265 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Cadmium | 0.145 | J | 0.0625 | 0.663 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Chromium | 44.6 | | 0.176 | 1.33 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Cobalt | 14.5 | | 0.108 | 1.33 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Copper | 35.7 | | 0.531 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Lead | 33.1 | | 0.276 | 0.663 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Nickel | 62.0 | | 0.175 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Selenium | 2.40 | J | 1.01 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Vanadium | 50.7 | | 0.671 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| G/BS-H1-1-3.0 | L1741921-70 | Zinc | 66.0 | | 1.10 | 6.63 | 1 | 06/11/2024 18:37 | WG2299845 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| EB-053024 | L1741921-55 | TPHG C5 - C12 | 76.0 | B J | 30.4 | 100 | 1 | 06/12/2024 03:27 | WG2303210 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I2-1-4.0 | L1741921-04 | TPHG C5 - C12 | 2.73 | B J | 1.75 | 5.27 | 34 | 06/13/2024 00:35 | WG2303940 |
| G/UC-I2-1-8.0 | L1741921-06 | TPHG C5 - C12 | 1.54 | B J | 1.36 | 4.10 | 25 | 06/13/2024 09:52 | WG2304284 |
| G/UC-H4-1-3.0 | L1741921-10 | TPHG C5 - C12 | 4.95 | B | 1.05 | 3.16 | 25 | 06/10/2024 15:40 | WG2302200 |
| G/UC-H4-1-5.0 | L1741921-12 | TPHG C5 - C12 | 1.34 | B J | 1.13 | 3.40 | 25 | 06/10/2024 15:59 | WG2302200 |
| G-H3-1-3.0 | L1741921-15 | TPHG C5 - C12 | 1.89 | B J | 1.29 | 3.88 | 25 | 06/10/2024 16:19 | WG2302200 |
| G-H3-1-5.0 | L1741921-17 | TPHG C5 - C12 | 2.03 | B J | 1.49 | 4.48 | 25 | 06/10/2024 16:38 | WG2302200 |
| UC-H1-1-3.0 | L1741921-20 | TPHG C5 - C12 | 2.75 | J | 1.44 | 4.33 | 25 | 06/05/2024 23:08 | WG2299409 |
| UC-H1-1-4.0 | L1741921-21 | TPHG C5 - C12 | 6.15 | B | 1.43 | 4.30 | 25 | 06/13/2024 10:50 | WG2304284 |
| UC-H1-1-5.0 | L1741921-22 | TPHG C5 - C12 | 7.13 | | 1.33 | 4.01 | 25 | 06/05/2024 23:30 | WG2299409 |
| UC-H1-1-8.0 | L1741921-23 | TPHG C5 - C12 | 10.0 | B | 1.41 | 4.26 | 25 | 06/13/2024 11:09 | WG2304284 |
| BS-I3-1-4.0 | L1741921-28 | TPHG C5 - C12 | 1.49 | B J | 1.28 | 3.84 | 25 | 06/13/2024 11:29 | WG2304284 |
| BS-I3-1-5.0 | L1741921-29 | TPHG C5 - C12 | 1.48 | J | 1.27 | 3.82 | 25 | 06/06/2024 00:13 | WG2299409 |
| G-H2-1-3.0 | L1741921-33 | TPHG C5 - C12 | 2.17 | J | 1.11 | 3.35 | 25 | 06/06/2024 00:34 | WG2299409 |
| G-H2-1-4.0 | L1741921-34 | TPHG C5 - C12 | 3.03 | B J | 1.13 | 3.41 | 25 | 06/13/2024 11:48 | WG2304284 |
| G/UC-I4-1-3.0 | L1741921-38 | TPHG C5 - C12 | 2.49 | J | 1.17 | 3.51 | 25.3 | 06/06/2024 01:17 | WG2299409 |
| G/UC-I4-1-4.0 | L1741921-39 | TPHG C5 - C12 | 1.34 | B J | 1.25 | 3.77 | 25 | 06/13/2024 12:08 | WG2304284 |
| BS-I1-1-3.0 | L1741921-45 | TPHG C5 - C12 | 1.21 | J | 1.13 | 3.42 | 25 | 06/06/2024 02:00 | WG2299409 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-I1-1-4.0 | L1741921-46 | TPHG C5 - C12 | 5.13 | B J | 1.83 | 5.50 | 30.3 | 06/13/2024 03:17 | WG2304093 |
| BS-I1-1-5.0 | L1741921-47 | TPHG C5 - C12 | 1.83 | J | 1.41 | 4.24 | 25.5 | 06/06/2024 02:22 | WG2299409 |
| G/UC-I3-1-3.0 | L1741921-50 | TPHG C5 - C12 | 1.17 | J | 1.16 | 3.49 | 25 | 06/06/2024 02:43 | WG2299409 |
| G/UC-I3-1-4.0 | L1741921-51 | TPHG C5 - C12 | 1.79 | B J | 1.35 | 4.06 | 27.5 | 06/13/2024 03:40 | WG2304093 |
| G/UC-I3-1-8.0 | L1741921-53 | TPHG C5 - C12 | 1.48 | B J | 1.42 | 4.29 | 25 | 06/13/2024 04:03 | WG2304093 |
| BS-I2-1-3.0 | L1741921-58 | TPHG C5 - C12 | 2.39 | J | 1.28 | 3.86 | 25 | 06/06/2024 03:26 | WG2299409 |
| BS-I2-1-4.0 | L1741921-59 | TPHG C5 - C12 | 2.17 | B J | 1.27 | 3.82 | 25.5 | 06/13/2024 04:26 | WG2304093 |
| G/UC-I1-1-3.0 | L1741921-63 | TPHG C5 - C12 | 1.56 | J | 1.38 | 4.16 | 25 | 06/06/2024 04:10 | WG2299409 |
| G/UC-I1-1-4.0 | L1741921-64 | TPHG C5 - C12 | 1.85 | B J | 1.51 | 4.54 | 28 | 06/13/2024 04:49 | WG2304093 |
| G/UC-I1-1-8.0 | L1741921-66 | TPHG C5 - C12 | 1.30 | B J | 1.22 | 3.69 | 25 | 06/13/2024 05:12 | WG2304093 |
| G/BS-H1-1-3.0 | L1741921-70 | TPHG C5 - C12 | 348 | | 2.98 | 8.99 | 55.5 | 06/11/2024 13:29 | WG2302673 |
| G/BS-H1-1-4.0 | L1741921-71 | TPHG C5 - C12 | 34.4 | | 1.36 | 4.10 | 25.3 | 06/13/2024 14:02 | WG2304524 |
| G/BS-H1-1-5.0 | L1741921-72 | TPHG C5 - C12 | 45.7 | | 1.33 | 4.00 | 25 | 06/06/2024 05:14 | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I2-1-2.0 | L1741921-02 | Chlorobenzene | 0.00114 | J | 0.000257 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| G/UC-I2-1-2.0 | L1741921-02 | Toluene | 0.00165 | J | 0.00159 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| G/UC-I2-1-2.0 | L1741921-02 | 1,2,4-Trimethylbenzene | 0.00240 | J | 0.00194 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| G/UC-I2-1-2.0 | L1741921-02 | Xylenes, Total | 0.00192 | J | 0.00108 | 0.00797 | 1 | 06/11/2024 12:04 | WG2302420 |
| G/UC-I2-1-4.0 | L1741921-04 | Tetrachloroethene | 0.00242 | J | 0.00189 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| G/UC-I2-1-10.0 | L1741921-07 | Toluene | 0.00220 | J | 0.00190 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| G/UC-I2-1-10.0 | L1741921-07 | Xylenes, Total | 0.00153 | J | 0.00128 | 0.00949 | 1 | 06/11/2024 12:48 | WG2302420 |
| G/UC-H4-1-2.0 | L1741921-09 | p-Isopropyltoluene | 0.00654 | J | 0.00334 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| G/UC-H4-1-2.0 | L1741921-09 | 1,2,4-Trimethylbenzene | 0.00257 | J | 0.00207 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| G/UC-H4-1-2.0 | L1741921-09 | Xylenes, Total | 0.00148 | J | 0.00115 | 0.00852 | 1 | 06/11/2024 13:10 | WG2302420 |
| G-H3-1-2.0 | L1741921-14 | Carbon tetrachloride | 0.00817 | J | 0.00222 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| G-H3-1-2.0 | L1741921-14 | 1,1-Dichloroethane | 0.0640 | | 0.00121 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| G-H3-1-2.0 | L1741921-14 | Naphthalene | 0.0143 | J | 0.0121 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| G-H3-1-2.0 | L1741921-14 | Tetrachloroethene | 0.00327 | J | 0.00221 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| G-H3-1-2.0 | L1741921-14 | Toluene | 0.00405 | J | 0.00321 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| G-H3-1-2.0 | L1741921-14 | 1,1,1-Trichloroethane | 0.0717 | | 0.00229 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| G-H3-1-2.0 | L1741921-14 | Trichloroethene | 0.0831 | | 0.00145 | 0.00247 | 2 | 06/13/2024 00:28 | WG2303955 |
| G-H3-1-2.0 | L1741921-14 | Xylenes, Total | 0.00551 | J | 0.00217 | 0.0161 | 2 | 06/13/2024 00:28 | WG2303955 |
| G-H3-1-3.0 | L1741921-15 | Benzene | 0.00115 | J | 0.000725 | 0.00155 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | Chlorobenzene | 0.000866 | J | 0.000326 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | 1,2-Dichlorobenzene | 0.00108 | J | 0.000660 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | 1,1-Dichloroethane | 0.118 | | 0.000762 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | 1,1-Dichloroethene | 0.00357 | J | 0.000941 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | cis-1,2-Dichloroethene | 0.00343 | J | 0.00114 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | Tetrachloroethene | 0.00425 | | 0.00139 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | Toluene | 0.00206 | J | 0.00202 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | 1,1,1-Trichloroethane | 0.0419 | | 0.00143 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | Trichloroethene | 0.145 | | 0.000907 | 0.00155 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | 1,2,4-Trimethylbenzene | 0.00329 | J | 0.00245 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| G-H3-1-3.0 | L1741921-15 | Xylenes, Total | 0.00256 | J | 0.00137 | 0.0101 | 1 | 06/11/2024 13:54 | WG2302420 |
| UC-H1-1-2.0 | L1741921-19 | Benzene | 0.00115 | J | 0.000620 | 0.00133 | 1 | 06/11/2024 14:38 | WG2302420 |
| UC-H1-1-2.0 | L1741921-19 | 1,2,4-Trimethylbenzene | 0.00369 | J | 0.00210 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| UC-H1-1-2.0 | L1741921-19 | 1,2,3-Trimethylbenzene | 0.00244 | J | 0.00210 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| UC-H1-1-2.0 | L1741921-19 | Xylenes, Total | 0.00480 | J | 0.00117 | 0.00864 | 1 | 06/11/2024 14:38 | WG2302420 |
| UC-H1-1-4.0 | L1741921-21 | 1,1-Dichloroethane | 0.00234 | J | 0.000844 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| UC-H1-1-4.0 | L1741921-21 | 1,1,1-Trichloroethane | 0.00203 | J | 0.00159 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| UC-H1-1-4.0 | L1741921-21 | Trichloroethene | 0.00170 | J | 0.00100 | 0.00172 | 1 | 06/13/2024 02:18 | WG2304049 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| UC-H1-1-5.0 | L1741921-22 | Benzene | 0.000794 | J | 0.000749 | 0.00160 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-5.0 | L1741921-22 | Ethylbenzene | 0.00135 | J | 0.00118 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-5.0 | L1741921-22 | Isopropylbenzene | 0.00274 | J | 0.000681 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-5.0 | L1741921-22 | p-Isopropyltoluene | 0.00632 | J | 0.00409 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-5.0 | L1741921-22 | Toluene | 0.00309 | J | 0.00208 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-5.0 | L1741921-22 | 1,2,4-Trimethylbenzene | 0.0159 | | 0.00253 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-5.0 | L1741921-22 | 1,2,3-Trimethylbenzene | 0.00694 | J | 0.00253 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-5.0 | L1741921-22 | 1,3,5-Trimethylbenzene | 0.0160 | | 0.00321 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-5.0 | L1741921-22 | Xylenes, Total | 0.101 | | 0.00141 | 0.0104 | 1 | 06/11/2024 20:26 | WG2303115 |
| UC-H1-1-8.0 | L1741921-23 | Benzene | 0.000964 | J | 0.000795 | 0.00170 | 1 | 06/13/2024 02:38 | WG2304049 |
| UC-H1-1-8.0 | L1741921-23 | Isopropylbenzene | 0.00305 | J | 0.000724 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| UC-H1-1-8.0 | L1741921-23 | p-Isopropyltoluene | 0.00877 | | 0.00434 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| UC-H1-1-8.0 | L1741921-23 | 4-Methyl-2-pentanone (MIBK) | 0.00972 | J | 0.00388 | 0.0426 | 1 | 06/13/2024 02:38 | WG2304049 |
| UC-H1-1-8.0 | L1741921-23 | n-Propylbenzene | 0.00189 | J | 0.00162 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| UC-H1-1-8.0 | L1741921-23 | 1,2,4-Trimethylbenzene | 0.00797 | J | 0.00269 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| UC-H1-1-8.0 | L1741921-23 | 1,2,3-Trimethylbenzene | 0.00562 | J | 0.00269 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| UC-H1-1-8.0 | L1741921-23 | 1,3,5-Trimethylbenzene | 0.0108 | | 0.00341 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| UC-H1-1-8.0 | L1741921-23 | Xylenes, Total | 0.116 | | 0.00150 | 0.0111 | 1 | 06/13/2024 02:38 | WG2304049 |
| BS-I3-1-4.0 | L1741921-28 | Xylenes, Total | 0.00217 | J | 0.00135 | 0.00999 | 1 | 06/13/2024 02:58 | WG2304049 |
| G-H2-1-2.0 | L1741921-32 | Benzene | 0.0306 | | 0.000659 | 0.00141 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | n-Butylbenzene | 0.0165 | J | 0.00741 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | sec-Butylbenzene | 0.00559 | J | 0.00406 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | Chlorobenzene | 0.00117 | J | 0.000296 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | 1,2-Dichlorobenzene | 0.0193 | | 0.000600 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | 1,3-Dichlorobenzene | 0.00111 | J | 0.000847 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | 1,4-Dichlorobenzene | 0.00433 | J | 0.000988 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | 1,1-Dichloroethane | 0.00905 | | 0.000693 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | cis-1,2-Dichloroethene | 0.00490 | | 0.00104 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | Ethylbenzene | 0.0203 | | 0.00104 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | Isopropylbenzene | 0.00368 | | 0.000600 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | p-Isopropyltoluene | 0.0164 | | 0.00360 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | Naphthalene | 0.0762 | | 0.00689 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | n-Propylbenzene | 0.0164 | | 0.00134 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | Toluene | 0.0344 | | 0.00183 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | Trichloroethene | 0.00436 | | 0.000824 | 0.00141 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | 1,2,4-Trimethylbenzene | 0.0505 | | 0.00223 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | 1,2,3-Trimethylbenzene | 0.0231 | | 0.00223 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | 1,3,5-Trimethylbenzene | 0.00902 | | 0.00282 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-2.0 | L1741921-32 | Xylenes, Total | 0.0982 | | 0.00124 | 0.00917 | 1 | 06/11/2024 21:41 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | Benzene | 0.00287 | | 0.000626 | 0.00134 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | Carbon tetrachloride | 0.00322 | J | 0.00120 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | 1,2-Dichlorobenzene | 0.000869 | J | 0.000570 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | Ethylbenzene | 0.00287 | J | 0.000989 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | Isopropylbenzene | 0.00122 | J | 0.000570 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | p-Isopropyltoluene | 0.00483 | J | 0.00342 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | Naphthalene | 0.0286 | | 0.00655 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | n-Propylbenzene | 0.00287 | J | 0.00127 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | Tetrachloroethene | 0.00370 | | 0.00120 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | Toluene | 0.00975 | | 0.00174 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | 1,1,1-Trichloroethane | 0.0330 | | 0.00124 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | 1,2,4-Trimethylbenzene | 0.0182 | | 0.00212 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | 1,2,3-Trimethylbenzene | 0.0115 | | 0.00212 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | 1,3,5-Trimethylbenzene | 0.00773 | | 0.00268 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-3.0 | L1741921-33 | Xylenes, Total | 0.0239 | | 0.00118 | 0.00872 | 1 | 06/11/2024 22:01 | WG2303115 |
| G-H2-1-4.0 | L1741921-34 | Methylene Chloride | 0.0103 | J | 0.00907 | 0.0341 | 1 | 06/13/2024 03:17 | WG2304049 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I4-1-2.0 | L1741921-37 | Benzene | 0.000792 | J | 0.000562 | 0.00120 | 1 | 06/11/2024 22:38 | WG2303115 |
| G/UC-I4-1-2.0 | L1741921-37 | Naphthalene | 0.0165 | | 0.00587 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| G/UC-I4-1-2.0 | L1741921-37 | Toluene | 0.00193 | J | 0.00156 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| G/UC-I4-1-2.0 | L1741921-37 | 1,1,1-Trichloroethane | 0.00136 | J | 0.00111 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| G/UC-I4-1-2.0 | L1741921-37 | Xylenes, Total | 0.00110 | J | 0.00106 | 0.00782 | 1 | 06/11/2024 22:38 | WG2303115 |
| G/UC-I4-1-4.0 | L1741921-39 | Benzene | 0.00241 | | 0.000704 | 0.00151 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | 1,2-Dichlorobenzene | 0.0225 | | 0.000641 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | 1,4-Dichlorobenzene | 0.0175 | | 0.00106 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | 1,1-Dichloroethane | 0.00249 | J | 0.000741 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | Ethylbenzene | 0.00674 | | 0.00111 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | Isopropylbenzene | 0.00261 | J | 0.000641 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | p-Isopropyltoluene | 0.00554 | J | 0.00385 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | Naphthalene | 0.0300 | J3 | 0.00736 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | n-Propylbenzene | 0.0140 | | 0.00143 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | Toluene | 0.0119 | | 0.00196 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | 1,2,4-Trimethylbenzene | 0.0869 | | 0.00238 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | 1,2,3-Trimethylbenzene | 0.0228 | | 0.00238 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | 1,3,5-Trimethylbenzene | 0.0269 | | 0.00302 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-4.0 | L1741921-39 | Xylenes, Total | 0.0637 | | 0.00133 | 0.00980 | 1 | 06/13/2024 03:37 | WG2304049 |
| G/UC-I4-1-10.0 | L1741921-42 | Methyl tert-butyl ether | 0.00147 | J | 0.000628 | 0.00180 | 1 | 06/11/2024 23:16 | WG2303115 |
| BS-I1-1-2.0 | L1741921-44 | Toluene | 0.00217 | J | 0.00149 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| BS-I1-1-2.0 | L1741921-44 | 1,1,1-Trichloroethane | 0.00855 | | 0.00106 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| BS-I1-1-3.0 | L1741921-45 | Toluene | 0.00209 | J | 0.00178 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| BS-I1-1-3.0 | L1741921-45 | 1,1,1-Trichloroethane | 0.0130 | | 0.00126 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| BS-I1-1-3.0 | L1741921-45 | Xylenes, Total | 0.00129 | J | 0.00120 | 0.00889 | 1 | 06/11/2024 23:54 | WG2303115 |
| BS-I1-1-4.0 | L1741921-46 | cis-1,2-Dichloroethene | 0.00209 | J | 0.00161 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| BS-I1-1-5.0 | L1741921-47 | 1,1,1-Trichloroethane | 0.00165 | J | 0.00156 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| G/UC-I3-1-2.0 | L1741921-49 | Benzene | 0.00153 | J | 0.000728 | 0.00156 | 1 | 06/11/2024 19:26 | WG2303036 |
| G/UC-I3-1-2.0 | L1741921-49 | Ethylbenzene | 0.00135 | J | 0.00115 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| G/UC-I3-1-2.0 | L1741921-49 | Naphthalene | 0.0644 | | 0.00761 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| G/UC-I3-1-2.0 | L1741921-49 | Toluene | 0.00756 | J | 0.00203 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| G/UC-I3-1-2.0 | L1741921-49 | 1,2,4-Trimethylbenzene | 0.00504 | J | 0.00246 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| G/UC-I3-1-2.0 | L1741921-49 | 1,2,3-Trimethylbenzene | 0.00390 | J | 0.00246 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| G/UC-I3-1-2.0 | L1741921-49 | Xylenes, Total | 0.0120 | | 0.00137 | 0.0101 | 1 | 06/11/2024 19:26 | WG2303036 |
| G/UC-I3-1-4.0 | L1741921-51 | Methylene Chloride | 0.0146 | J | 0.0108 | 0.0406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| G/UC-I3-1-4.0 | L1741921-51 | Toluene | 0.00248 | J | 0.00211 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| G/UC-I3-1-5.0 | L1741921-52 | Toluene | 0.00449 | J | 0.00184 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| G/UC-I3-1-5.0 | L1741921-52 | Xylenes, Total | 0.00171 | J | 0.00125 | 0.00921 | 1 | 06/11/2024 19:45 | WG2303036 |
| BS-I2-1-2.0 | L1741921-57 | n-Butylbenzene | 0.00999 | J | 0.00648 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| BS-I2-1-2.0 | L1741921-57 | tert-Butylbenzene | 0.00345 | J | 0.00241 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| BS-I2-1-2.0 | L1741921-57 | 1,2,4-Trimethylbenzene | 0.00200 | J | 0.00195 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| BS-I2-1-2.0 | L1741921-57 | Xylenes, Total | 0.00209 | J | 0.00109 | 0.00802 | 1 | 06/11/2024 20:24 | WG2303036 |
| BS-I2-1-3.0 | L1741921-58 | 2-Chlorotoluene | 0.0112 | | 0.00134 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| BS-I2-1-3.0 | L1741921-58 | Isopropylbenzene | 0.00769 | | 0.000656 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| BS-I2-1-3.0 | L1741921-58 | n-Propylbenzene | 0.00165 | J | 0.00147 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| BS-I2-1-3.0 | L1741921-58 | Xylenes, Total | 0.00222 | J | 0.00136 | 0.0100 | 1 | 06/11/2024 20:43 | WG2303036 |
| BS-I2-1-4.0 | L1741921-59 | Isopropylbenzene | 0.00145 | J | 0.000649 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| BS-I2-1-4.0 | L1741921-59 | Methylene Chloride | 0.0157 | J | 0.0101 | 0.0382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| BS-I2-1-4.0 | L1741921-59 | Toluene | 0.00367 | J | 0.00199 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| BS-I2-1-5.0 | L1741921-60 | 2-Chlorotoluene | 0.00285 | J | 0.00142 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I1-1-2.0 | L1741921-62 | Benzene | 0.00219 | | 0.000720 | 0.00154 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-2.0 | L1741921-62 | Ethylbenzene | 0.00247 | J | 0.00114 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-2.0 | L1741921-62 | Methylene Chloride | 0.0311 | J | 0.0102 | 0.0385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-2.0 | L1741921-62 | Naphthalene | 0.0132 | J | 0.00752 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-2.0 | L1741921-62 | n-Propylbenzene | 0.00351 | J | 0.00146 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-2.0 | L1741921-62 | Toluene | 0.00752 | J | 0.00201 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-2.0 | L1741921-62 | 1,2,4-Trimethylbenzene | 0.00501 | B J | 0.00243 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-2.0 | L1741921-62 | 1,2,3-Trimethylbenzene | 0.00355 | J | 0.00243 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-2.0 | L1741921-62 | Xylenes, Total | 0.00714 | J | 0.00136 | 0.0100 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| G/UC-I1-1-4.0 | L1741921-64 | Ethylbenzene | 0.00381 | J | 0.00134 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| G/UC-I1-1-4.0 | L1741921-64 | Methylene Chloride | 0.0389 | J | 0.0121 | 0.0454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| G/UC-I1-1-4.0 | L1741921-64 | Toluene | 0.0103 | | 0.00237 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| G/UC-I1-1-4.0 | L1741921-64 | Xylenes, Total | 0.0185 | | 0.00160 | 0.0118 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| G/BS-H1-1-2.0 | L1741921-69 | Benzene | 0.00850 | | 0.000544 | 0.00117 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | Ethylbenzene | 0.00371 | | 0.000859 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | Isopropylbenzene | 0.00559 | | 0.000495 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | p-Isopropyltoluene | 0.00302 | J | 0.00297 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | n-Propylbenzene | 0.00327 | J | 0.00111 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | Toluene | 0.00677 | | 0.00151 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | 1,2,4-Trimethylbenzene | 0.00894 | | 0.00184 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | 1,2,3-Trimethylbenzene | 0.00509 | J | 0.00184 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | 1,3,5-Trimethylbenzene | 0.00861 | | 0.00233 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-2.0 | L1741921-69 | Xylenes, Total | 0.0556 | | 0.00103 | 0.00757 | 1 | 06/11/2024 21:59 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | Benzene | 0.0110 | J | 0.00627 | 0.0134 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | sec-Butylbenzene | 0.0583 | J | 0.0385 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | Ethylbenzene | 0.0769 | | 0.00989 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | Isopropylbenzene | 0.226 | | 0.00570 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | n-Propylbenzene | 0.167 | | 0.0127 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | Toluene | 0.0880 | | 0.0174 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | 1,2,4-Trimethylbenzene | 0.0434 | J | 0.0211 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | 1,2,3-Trimethylbenzene | 0.0932 | | 0.0211 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-3.0 | L1741921-70 | Xylenes, Total | 0.300 | | 0.0118 | 0.0871 | 8 | 06/11/2024 22:55 | WG2303036 |
| G/BS-H1-1-4.0 | L1741921-71 | Benzene | 0.0188 | | 0.000765 | 0.00164 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | n-Butylbenzene | 0.0758 | | 0.00859 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | sec-Butylbenzene | 0.0561 | | 0.00472 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | Ethylbenzene | 0.00716 | | 0.00121 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | Isopropylbenzene | 0.102 | | 0.000695 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | p-Isopropyltoluene | 0.0212 | | 0.00418 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | Naphthalene | 0.0141 | J | 0.00799 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | n-Propylbenzene | 0.306 | | 0.00155 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | Toluene | 0.0238 | | 0.00212 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | 1,2,4-Trimethylbenzene | 0.0335 | | 0.00259 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | 1,2,3-Trimethylbenzene | 0.0198 | | 0.00259 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | 1,3,5-Trimethylbenzene | 0.0280 | | 0.00327 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| G/BS-H1-1-4.0 | L1741921-71 | Xylenes, Total | 0.0924 | | 0.00144 | 0.0106 | 1.01 | 06/13/2024 04:09 | WG2304116 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-H1-1-5.0 | L1741921-72 | Benzene | 0.0897 | | 0.000746 | 0.00160 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | n-Butylbenzene | 0.145 | | 0.00839 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | sec-Butylbenzene | 0.0564 | | 0.00460 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | Ethylbenzene | 0.00639 | | 0.00118 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | Isopropylbenzene | 0.109 | | 0.000679 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | p-Isopropyltoluene | 0.0121 | | 0.00408 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | Naphthalene | 0.0766 | | 0.00780 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | n-Propylbenzene | 0.323 | | 0.00152 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | Toluene | 0.00918 | | 0.00208 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | 1,2,4-Trimethylbenzene | 0.00788 | J | 0.00253 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | 1,2,3-Trimethylbenzene | 0.00903 | | 0.00253 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | 1,3,5-Trimethylbenzene | 0.00449 | J | 0.00320 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| G/BS-H1-1-5.0 | L1741921-72 | Xylenes, Total | 0.0301 | | 0.00141 | 0.0104 | 1 | 06/11/2024 23:13 | WG2303036 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I2-1-3.0 | L1741921-03 | C12-C22 Hydrocarbons | 3.71 | J | 0.968 | 5.28 | 1 | 06/11/2024 18:18 | WG2302178 |
| G/UC-I2-1-3.0 | L1741921-03 | C22-C32 Hydrocarbons | 6.55 | | 1.76 | 5.28 | 1 | 06/11/2024 18:18 | WG2302178 |
| G/UC-I2-1-3.0 | L1741921-03 | C32-C40 Hydrocarbons | 4.83 | J | 1.76 | 5.28 | 1 | 06/11/2024 18:18 | WG2302178 |
| G/UC-I2-1-4.0 | L1741921-04 | C12-C22 Hydrocarbons | 2.15 | J | 0.965 | 5.27 | 1 | 06/14/2024 03:56 | WG2304127 |
| G/UC-I2-1-4.0 | L1741921-04 | C22-C32 Hydrocarbons | 2.94 | J | 1.75 | 5.27 | 1 | 06/14/2024 03:56 | WG2304127 |
| G/UC-I2-1-5.0 | L1741921-05 | C12-C22 Hydrocarbons | 4.96 | J | 0.966 | 5.27 | 1 | 06/11/2024 15:10 | WG2302178 |
| G/UC-I2-1-5.0 | L1741921-05 | C22-C32 Hydrocarbons | 9.33 | | 1.75 | 5.27 | 1 | 06/11/2024 15:10 | WG2302178 |
| G/UC-I2-1-5.0 | L1741921-05 | C32-C40 Hydrocarbons | 7.99 | | 1.75 | 5.27 | 1 | 06/11/2024 15:10 | WG2302178 |
| G/UC-H4-1-3.0 | L1741921-10 | C12-C22 Hydrocarbons | 8.08 | | 0.830 | 4.53 | 1 | 06/11/2024 19:30 | WG2302178 |
| G/UC-H4-1-3.0 | L1741921-10 | C22-C32 Hydrocarbons | 51.5 | | 1.51 | 4.53 | 1 | 06/11/2024 19:30 | WG2302178 |
| G/UC-H4-1-3.0 | L1741921-10 | C32-C40 Hydrocarbons | 36.0 | | 1.51 | 4.53 | 1 | 06/11/2024 19:30 | WG2302178 |
| G-H3-1-3.0 | L1741921-15 | C12-C22 Hydrocarbons | 310 | | 37.1 | 203 | 40 | 06/11/2024 20:42 | WG2302178 |
| G-H3-1-3.0 | L1741921-15 | C22-C32 Hydrocarbons | 2280 | | 67.4 | 203 | 40 | 06/11/2024 20:42 | WG2302178 |
| G-H3-1-3.0 | L1741921-15 | C32-C40 Hydrocarbons | 1170 | | 67.4 | 203 | 40 | 06/11/2024 20:42 | WG2302178 |
| G-H3-1-4.0 | L1741921-16 | C12-C22 Hydrocarbons | 17.8 | | 0.905 | 4.94 | 1 | 06/14/2024 04:25 | WG2304127 |
| G-H3-1-4.0 | L1741921-16 | C22-C32 Hydrocarbons | 57.2 | | 1.64 | 4.94 | 1 | 06/14/2024 04:25 | WG2304127 |
| G-H3-1-4.0 | L1741921-16 | C32-C40 Hydrocarbons | 22.0 | | 1.64 | 4.94 | 1 | 06/14/2024 04:25 | WG2304127 |
| G-H3-1-5.0 | L1741921-17 | C12-C22 Hydrocarbons | 22.3 | J6 | 0.992 | 5.41 | 1 | 06/11/2024 13:43 | WG2302178 |
| G-H3-1-5.0 | L1741921-17 | C22-C32 Hydrocarbons | 42.6 | J3 J6 | 1.80 | 5.41 | 1 | 06/11/2024 13:43 | WG2302178 |
| G-H3-1-5.0 | L1741921-17 | C32-C40 Hydrocarbons | 20.7 | | 1.80 | 5.41 | 1 | 06/11/2024 13:43 | WG2302178 |
| UC-H1-1-3.0 | L1741921-20 | C12-C22 Hydrocarbons | 3.17 | J | 0.993 | 5.42 | 1 | 06/11/2024 18:47 | WG2302178 |
| UC-H1-1-3.0 | L1741921-20 | C22-C32 Hydrocarbons | 13.2 | | 1.80 | 5.42 | 1 | 06/11/2024 18:47 | WG2302178 |
| UC-H1-1-3.0 | L1741921-20 | C32-C40 Hydrocarbons | 11.4 | | 1.80 | 5.42 | 1 | 06/11/2024 18:47 | WG2302178 |
| UC-H1-1-4.0 | L1741921-21 | C12-C22 Hydrocarbons | 2.30 | J | 0.974 | 5.31 | 1 | 06/14/2024 03:42 | WG2304127 |
| UC-H1-1-4.0 | L1741921-21 | C22-C32 Hydrocarbons | 3.81 | J | 1.77 | 5.31 | 1 | 06/14/2024 03:42 | WG2304127 |
| UC-H1-1-5.0 | L1741921-22 | C12-C22 Hydrocarbons | 1.46 | J | 0.953 | 5.20 | 1 | 06/11/2024 13:00 | WG2302178 |
| UC-H1-1-5.0 | L1741921-22 | C22-C32 Hydrocarbons | 2.59 | J | 1.73 | 5.20 | 1 | 06/11/2024 13:00 | WG2302178 |
| UC-H1-1-5.0 | L1741921-22 | C32-C40 Hydrocarbons | 2.28 | J | 1.73 | 5.20 | 1 | 06/11/2024 13:00 | WG2302178 |
| BS-I3-1-3.0 | L1741921-27 | C12-C22 Hydrocarbons | 5.86 | J | 1.70 | 9.28 | 2 | 06/11/2024 22:59 | WG2302178 |
| BS-I3-1-3.0 | L1741921-27 | C22-C32 Hydrocarbons | 47.0 | | 3.08 | 9.28 | 2 | 06/11/2024 22:59 | WG2302178 |
| BS-I3-1-3.0 | L1741921-27 | C32-C40 Hydrocarbons | 33.5 | | 3.08 | 9.28 | 2 | 06/11/2024 22:59 | WG2302178 |
| BS-I3-1-4.0 | L1741921-28 | C22-C32 Hydrocarbons | 1.68 | J | 1.65 | 4.97 | 1 | 06/14/2024 04:11 | WG2304127 |
| BS-I3-1-5.0 | L1741921-29 | C12-C22 Hydrocarbons | 0.960 | J | 0.912 | 4.98 | 1 | 06/11/2024 14:55 | WG2302178 |
| BS-I3-1-5.0 | L1741921-29 | C22-C32 Hydrocarbons | 2.25 | J | 1.65 | 4.98 | 1 | 06/11/2024 14:55 | WG2302178 |
| BS-I3-1-5.0 | L1741921-29 | C32-C40 Hydrocarbons | 2.10 | J | 1.65 | 4.98 | 1 | 06/11/2024 14:55 | WG2302178 |

# DETECTION SUMMARY

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-H2-1-3.0 | L1741921-33 | C12-C22 Hydrocarbons | 27.7 | | 0.856 | 4.67 | 1 | 06/13/2024 13:54 | WG2303234 |
| G-H2-1-3.0 | L1741921-33 | C22-C32 Hydrocarbons | 38.4 | | 1.55 | 4.67 | 1 | 06/13/2024 13:54 | WG2303234 |
| G-H2-1-3.0 | L1741921-33 | C32-C40 Hydrocarbons | 21.5 | | 1.55 | 4.67 | 1 | 06/13/2024 13:54 | WG2303234 |
| G-H2-1-4.0 | L1741921-34 | C12-C22 Hydrocarbons | 87.3 | | 0.866 | 4.73 | 1 | 06/14/2024 04:54 | WG2304127 |
| G-H2-1-4.0 | L1741921-34 | C22-C32 Hydrocarbons | 490 | | 15.7 | 47.3 | 10 | 06/14/2024 18:34 | WG2304127 |
| G-H2-1-4.0 | L1741921-34 | C32-C40 Hydrocarbons | 220 | | 15.7 | 47.3 | 10 | 06/14/2024 18:34 | WG2304127 |
| G-H2-1-5.0 | L1741921-35 | C12-C22 Hydrocarbons | 325 | | 46.7 | 255 | 50 | 06/13/2024 15:21 | WG2303234 |
| G-H2-1-5.0 | L1741921-35 | C22-C32 Hydrocarbons | 2390 | | 84.6 | 255 | 50 | 06/13/2024 15:21 | WG2303234 |
| G-H2-1-5.0 | L1741921-35 | C32-C40 Hydrocarbons | 1250 | | 84.6 | 255 | 50 | 06/13/2024 15:21 | WG2303234 |
| G/UC-I4-1-3.0 | L1741921-38 | C12-C22 Hydrocarbons | 11.1 | | 0.877 | 4.78 | 1 | 06/13/2024 14:08 | WG2303234 |
| G/UC-I4-1-3.0 | L1741921-38 | C22-C32 Hydrocarbons | 33.6 | | 1.59 | 4.78 | 1 | 06/13/2024 14:08 | WG2303234 |
| G/UC-I4-1-3.0 | L1741921-38 | C32-C40 Hydrocarbons | 19.5 | | 1.59 | 4.78 | 1 | 06/13/2024 14:08 | WG2303234 |
| G/UC-I4-1-4.0 | L1741921-39 | C12-C22 Hydrocarbons | 1.65 | J | 0.894 | 4.88 | 1 | 06/14/2024 18:06 | WG2304127 |
| G/UC-I4-1-4.0 | L1741921-39 | C22-C32 Hydrocarbons | 6.33 | | 1.62 | 4.88 | 1 | 06/14/2024 18:06 | WG2304127 |
| G/UC-I4-1-4.0 | L1741921-39 | C32-C40 Hydrocarbons | 4.21 | J | 1.62 | 4.88 | 1 | 06/14/2024 18:06 | WG2304127 |
| BS-I1-1-3.0 | L1741921-45 | C22-C32 Hydrocarbons | 134 | | 31.3 | 94.3 | 20 | 06/13/2024 20:17 | WG2303234 |
| BS-I1-1-3.0 | L1741921-45 | C32-C40 Hydrocarbons | 153 | | 31.3 | 94.3 | 20 | 06/13/2024 20:17 | WG2303234 |
| BS-I1-1-4.0 | L1741921-46 | C12-C22 Hydrocarbons | 90.5 | J | 42.3 | 231 | 40 | 06/14/2024 18:20 | WG2304127 |
| BS-I1-1-4.0 | L1741921-46 | C22-C32 Hydrocarbons | 451 | | 76.9 | 231 | 40 | 06/14/2024 18:20 | WG2304127 |
| BS-I1-1-4.0 | L1741921-46 | C32-C40 Hydrocarbons | 318 | | 76.9 | 231 | 40 | 06/14/2024 18:20 | WG2304127 |
| BS-I1-1-5.0 | L1741921-47 | C12-C22 Hydrocarbons | 132 | | 4.90 | 26.7 | 5 | 06/13/2024 14:52 | WG2303234 |
| BS-I1-1-5.0 | L1741921-47 | C22-C32 Hydrocarbons | 275 | | 8.87 | 26.7 | 5 | 06/13/2024 14:52 | WG2303234 |
| BS-I1-1-5.0 | L1741921-47 | C32-C40 Hydrocarbons | 124 | | 8.87 | 26.7 | 5 | 06/13/2024 14:52 | WG2303234 |
| G/UC-I3-1-3.0 | L1741921-50 | C12-C22 Hydrocarbons | 2.06 | J | 0.877 | 4.78 | 1 | 06/13/2024 13:11 | WG2303234 |
| G/UC-I3-1-3.0 | L1741921-50 | C22-C32 Hydrocarbons | 4.96 | | 1.59 | 4.78 | 1 | 06/13/2024 13:11 | WG2303234 |
| G/UC-I3-1-3.0 | L1741921-50 | C32-C40 Hydrocarbons | 3.95 | J | 1.59 | 4.78 | 1 | 06/13/2024 13:11 | WG2303234 |
| BS-I2-1-3.0 | L1741921-58 | C12-C22 Hydrocarbons | 3.30 | J | 0.909 | 4.96 | 1 | 06/13/2024 12:13 | WG2303234 |
| BS-I2-1-3.0 | L1741921-58 | C22-C32 Hydrocarbons | 6.00 | | 1.65 | 4.96 | 1 | 06/13/2024 12:13 | WG2303234 |
| BS-I2-1-3.0 | L1741921-58 | C32-C40 Hydrocarbons | 3.70 | J | 1.65 | 4.96 | 1 | 06/13/2024 12:13 | WG2303234 |
| BS-I2-1-4.0 | L1741921-59 | C12-C22 Hydrocarbons | 1.23 | J | 0.917 | 5.01 | 1 | 06/14/2024 01:18 | WG2304127 |
| BS-I2-1-5.0 | L1741921-60 | C12-C22 Hydrocarbons | 1.23 | J | 0.945 | 5.15 | 1 | 06/13/2024 11:29 | WG2303234 |
| G/UC-I1-1-3.0 | L1741921-63 | C12-C22 Hydrocarbons | 3.80 | J | 0.973 | 5.31 | 1 | 06/13/2024 14:23 | WG2303234 |
| G/UC-I1-1-3.0 | L1741921-63 | C22-C32 Hydrocarbons | 19.6 | | 1.77 | 5.31 | 1 | 06/13/2024 14:23 | WG2303234 |
| G/UC-I1-1-3.0 | L1741921-63 | C32-C40 Hydrocarbons | 18.7 | | 1.77 | 5.31 | 1 | 06/13/2024 14:23 | WG2303234 |
| G/UC-I1-1-5.0 | L1741921-65 | C12-C22 Hydrocarbons | 2.42 | J | 0.962 | 5.25 | 1 | 06/13/2024 12:27 | WG2303234 |
| G/UC-I1-1-5.0 | L1741921-65 | C22-C32 Hydrocarbons | 2.72 | J | 1.75 | 5.25 | 1 | 06/13/2024 12:27 | WG2303234 |
| G/UC-I1-1-5.0 | L1741921-65 | C32-C40 Hydrocarbons | 2.26 | J | 1.75 | 5.25 | 1 | 06/13/2024 12:27 | WG2303234 |
| G/BS-H1-1-3.0 | L1741921-70 | C12-C22 Hydrocarbons | 6.59 | | 0.972 | 5.31 | 1 | 06/13/2024 13:25 | WG2303234 |
| G/BS-H1-1-3.0 | L1741921-70 | C22-C32 Hydrocarbons | 28.7 | | 1.76 | 5.31 | 1 | 06/13/2024 13:25 | WG2303234 |
| G/BS-H1-1-3.0 | L1741921-70 | C32-C40 Hydrocarbons | 11.7 | | 1.76 | 5.31 | 1 | 06/13/2024 13:25 | WG2303234 |
| G/BS-H1-1-4.0 | L1741921-71 | C12-C22 Hydrocarbons | 3.14 | J | 0.962 | 5.25 | 1 | 06/14/2024 03:13 | WG2304127 |
| G/BS-H1-1-4.0 | L1741921-71 | C22-C32 Hydrocarbons | 3.39 | J | 1.75 | 5.25 | 1 | 06/14/2024 03:13 | WG2304127 |
| G/BS-H1-1-5.0 | L1741921-72 | C12-C22 Hydrocarbons | 4.50 | J | 0.945 | 5.16 | 1 | 06/13/2024 11:58 | WG2303234 |
| G/BS-H1-1-5.0 | L1741921-72 | C22-C32 Hydrocarbons | 2.90 | J | 1.71 | 5.16 | 1 | 06/13/2024 11:58 | WG2303234 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-H3-1-1.0 | L1741921-13 | PCB 1260 | 1.12 | | 0.0405 | 0.0933 | 5 | 06/19/2024 01:23 | WG2303247 |
| G-H3-1-2.0 | L1741921-14 | PCB 1260 | 1.40 | | 0.0410 | 0.0945 | 5 | 06/14/2024 16:12 | WG2303247 |
| G-H3-1-3.0 | L1741921-15 | PCB 1260 | 0.997 | | 0.00934 | 0.0215 | 1 | 07/01/2024 23:17 | WG2314791 |
| BS-I3-1-1.0 | L1741921-25 | PCB 1260 | 0.0405 | | 0.00849 | 0.0196 | 1 | 06/19/2024 00:44 | WG2303247 |
| G-H2-1-1.0 | L1741921-31 | PCB 1260 | 2.51 | | 0.0859 | 0.198 | 10 | 06/21/2024 02:20 | WG2304583 |
| G/UC-I4-1-1.0 | L1741921-36 | PCB 1260 | 0.0926 | P | 0.00852 | 0.0196 | 1 | 06/19/2024 00:54 | WG2303247 |

# DETECTION SUMMARY

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I3-1-1.0 | L1741921-48 | PCB 1260 | 0.0456 | P | 0.00822 | 0.0189 | 1 | 06/19/2024 01:04 | WG2303247 |
| G/UC-I3-1-2.0 | L1741921-49 | PCB 1260 | 0.00969 | J | 0.00935 | 0.0215 | 1 | 07/01/2024 23:43 | WG2314791 |
| BS-I2-1-1.0 | L1741921-56 | PCB 1260 | 0.265 | | 0.0167 | 0.0384 | 2 | 06/19/2024 23:10 | WG2304583 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-I2-1-1.0 | L1741921-01 | Benzo(a)anthracene | 0.214 | J | 0.0668 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Benzo(b)fluoranthene | 0.499 | | 0.0707 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Benzo(k)fluoranthene | 0.125 | J | 0.0674 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Benzo(g,h,i)perylene | 0.184 | J | 0.0693 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Benzo(a)pyrene | 0.262 | J | 0.0705 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Chrysene | 0.242 | J | 0.0754 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Fluoranthene | 0.385 | | 0.0684 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Indeno(1,2,3-cd)pyrene | 0.165 | J | 0.107 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Naphthalene | 0.206 | J | 0.0952 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Phenanthrene | 0.268 | J | 0.0753 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Bis(2-ethylhexyl)phthalate | 1.41 | J | 0.480 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-1.0 | L1741921-01 | Pyrene | 0.417 | | 0.0738 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| G/UC-I2-1-4.0 | L1741921-04 | Acenaphthene | 0.00916 | J | 0.00710 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Anthracene | 0.0241 | J | 0.00781 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Benzo(a)anthracene | 0.0540 | | 0.00773 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Benzo(b)fluoranthene | 0.0862 | | 0.00818 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Benzo(k)fluoranthene | 0.0287 | J | 0.00780 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Benzo(g,h,i)perylene | 0.0420 | J | 0.00802 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Benzo(a)pyrene | 0.0582 | | 0.00815 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Chrysene | 0.0545 | | 0.00872 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Fluoranthene | 0.0764 | | 0.00791 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Fluorene | 0.00936 | J | 0.00714 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Indeno(1,2,3-cd)pyrene | 0.0370 | J | 0.0124 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Naphthalene | 0.111 | | 0.0110 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Phenanthrene | 0.0841 | | 0.00870 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Pyrene | 0.0783 | | 0.00853 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-4.0 | L1741921-04 | Phenol | 0.0246 | J | 0.0176 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Benzo(a)anthracene | 0.125 | J | 0.0761 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Benzo(b)fluoranthene | 0.397 | J | 0.0805 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Benzo(k)fluoranthene | 0.102 | J | 0.0767 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Benzo(g,h,i)perylene | 0.110 | J | 0.0789 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Benzo(a)pyrene | 0.219 | J | 0.0802 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Chrysene | 0.136 | J | 0.0858 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Fluoranthene | 0.180 | J | 0.0779 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Naphthalene | 0.209 | J | 0.108 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Phenanthrene | 0.104 | J | 0.0857 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-I2-1-8.0 | L1741921-06 | Pyrene | 0.253 | J | 0.0840 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| G/UC-H4-1-2.0 | L1741921-09 | Benzo(a)anthracene | 0.0484 | J | 0.0134 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| G/UC-H4-1-2.0 | L1741921-09 | Benzo(b)fluoranthene | 0.0864 | | 0.0142 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| G/UC-H4-1-2.0 | L1741921-09 | Benzo(k)fluoranthene | 0.0282 | J | 0.0135 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| G/UC-H4-1-2.0 | L1741921-09 | Benzo(g,h,i)perylene | 0.0153 | J | 0.0139 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| G/UC-H4-1-2.0 | L1741921-09 | Benzo(a)pyrene | 0.0592 | J | 0.0142 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| G/UC-H4-1-2.0 | L1741921-09 | Chrysene | 0.0593 | J | 0.0151 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| G/UC-H4-1-2.0 | L1741921-09 | Fluoranthene | 0.0868 | | 0.0137 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| G/UC-H4-1-2.0 | L1741921-09 | Phenanthrene | 0.0340 | J | 0.0151 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| G/UC-H4-1-2.0 | L1741921-09 | Pyrene | 0.0987 | | 0.0148 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |

# DETECTION SUMMARY

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-H4-1-4.0 | L1741921-11 | Acenaphthene | 0.0308 | J | 0.0135 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Acenaphthylene | 0.171 | | 0.0117 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Anthracene | 0.199 | | 0.0149 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Benzo(a)anthracene | 0.929 | | 0.0146 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Benzo(b)fluoranthene | 1.28 | | 0.0155 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Benzo(k)fluoranthene | 0.460 | | 0.0148 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Benzo(g,h,i)perylene | 0.622 | | 0.0153 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Benzo(a)pyrene | 1.12 | | 0.0155 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Chrysene | 1.20 | | 0.0165 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Dibenz(a,h)anthracene | 0.180 | | 0.0231 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Fluoranthene | 1.41 | | 0.0150 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Fluorene | 0.0594 | J | 0.0135 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Indeno(1,2,3-cd)pyrene | 0.669 | | 0.0235 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Naphthalene | 0.0254 | J | 0.0209 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Phenanthrene | 0.806 | | 0.0165 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G/UC-H4-1-4.0 | L1741921-11 | Pyrene | 1.66 | | 0.0163 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| G-H3-1-1.0 | L1741921-13 | Acenaphthylene | 0.124 | J | 0.0515 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Anthracene | 0.0690 | J | 0.0651 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Benzo(a)anthracene | 0.291 | J | 0.0644 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Benzo(b)fluoranthene | 0.542 | | 0.0681 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Benzo(k)fluoranthene | 0.172 | J | 0.0650 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Benzo(g,h,i)perylene | 0.335 | J | 0.0668 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Benzo(a)pyrene | 0.404 | | 0.0679 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Chrysene | 0.357 | J | 0.0726 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Fluoranthene | 0.311 | J | 0.0659 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Indeno(1,2,3-cd)pyrene | 0.300 | J | 0.103 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Phenanthrene | 0.189 | J | 0.0725 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-1.0 | L1741921-13 | Pyrene | 0.422 | | 0.0711 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Acenaphthylene | 0.0415 | J | 0.0104 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Anthracene | 0.0313 | J | 0.0132 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Benzo(a)anthracene | 0.128 | | 0.0130 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Benzo(b)fluoranthene | 0.203 | | 0.0138 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Benzo(k)fluoranthene | 0.0840 | | 0.0131 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Benzo(g,h,i)perylene | 0.147 | | 0.0136 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Benzo(a)pyrene | 0.158 | | 0.0138 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Chrysene | 0.149 | | 0.0147 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Dibenz(a,h)anthracene | 0.0310 | J | 0.0206 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Fluoranthene | 0.139 | | 0.0133 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Indeno(1,2,3-cd)pyrene | 0.136 | | 0.0209 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Phenanthrene | 0.0859 | | 0.0147 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-2.0 | L1741921-14 | Pyrene | 0.176 | | 0.0145 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Acenaphthylene | 0.122 | J | 0.0594 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Benzo(a)anthracene | 0.121 | J | 0.0743 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Benzo(b)fluoranthene | 0.287 | J | 0.0786 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Benzo(k)fluoranthene | 0.0841 | J | 0.0750 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Benzo(g,h,i)perylene | 0.196 | J | 0.0771 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Benzo(a)pyrene | 0.217 | J | 0.0784 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Chrysene | 0.173 | J | 0.0838 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Fluoranthene | 0.143 | J | 0.0761 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Indeno(1,2,3-cd)pyrene | 0.203 | J | 0.119 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Phenanthrene | 0.0904 | J | 0.0837 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| G-H3-1-3.0 | L1741921-15 | Pyrene | 0.220 | J | 0.0821 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |

# DETECTION SUMMARY

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-H3-1-4.0 | L1741921-16 | Acenaphthene | 0.0117 | J | 0.00665 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Acenaphthylene | 0.0376 | J | 0.00579 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Anthracene | 0.0568 | | 0.00732 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Benzo(a)anthracene | 0.257 | | 0.00725 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Benzo(b)fluoranthene | 0.343 | | 0.00767 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Benzo(k)fluoranthene | 0.122 | | 0.00731 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Benzo(g,h,i)perylene | 0.174 | | 0.00752 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Benzo(a)pyrene | 0.290 | | 0.00764 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Chrysene | 0.327 | | 0.00817 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Dibenz(a,h)anthracene | 0.0473 | | 0.0114 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Fluoranthene | 0.374 | | 0.00742 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Fluorene | 0.0222 | J | 0.00669 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Indeno(1,2,3-cd)pyrene | 0.174 | | 0.0116 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Naphthalene | 0.0246 | J | 0.0103 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Phenanthrene | 0.225 | | 0.00816 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| G-H3-1-4.0 | L1741921-16 | Pyrene | 0.448 | | 0.00800 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| UC-H1-1-1.0 | L1741921-18 | Benzo(b)fluoranthene | 0.0170 | J | 0.0151 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| UC-H1-1-1.0 | L1741921-18 | Fluoranthene | 0.0178 | J | 0.0146 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| UC-H1-1-1.0 | L1741921-18 | Phenanthrene | 0.0309 | J | 0.0161 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| UC-H1-1-1.0 | L1741921-18 | Pyrene | 0.0254 | J | 0.0159 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| UC-H1-1-2.0 | L1741921-19 | Benzo(a)anthracene | 0.0271 | J | 0.0134 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| UC-H1-1-2.0 | L1741921-19 | Benzo(b)fluoranthene | 0.0540 | J | 0.0142 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| UC-H1-1-2.0 | L1741921-19 | Benzo(a)pyrene | 0.0269 | J | 0.0142 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| UC-H1-1-2.0 | L1741921-19 | Chrysene | 0.0242 | J | 0.0151 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| UC-H1-1-2.0 | L1741921-19 | Fluoranthene | 0.0461 | J | 0.0137 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| UC-H1-1-2.0 | L1741921-19 | Phenanthrene | 0.0215 | J | 0.0151 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| UC-H1-1-2.0 | L1741921-19 | Pyrene | 0.0643 | J | 0.0149 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| UC-H1-1-3.0 | L1741921-20 | Fluoranthene | 0.0196 | J | 0.00814 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| UC-H1-1-3.0 | L1741921-20 | Naphthalene | 0.0135 | J | 0.0113 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| UC-H1-1-3.0 | L1741921-20 | Phenanthrene | 0.0130 | J | 0.00896 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| UC-H1-1-3.0 | L1741921-20 | Pyrene | 0.0114 | J | 0.00878 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| UC-H1-1-8.0 | L1741921-23 | Benzo(b)fluoranthene | 0.174 | J | 0.162 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| BS-I3-1-1.0 | L1741921-25 | Benzo(b)fluoranthene | 0.0175 | J | 0.0143 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| BS-I3-1-1.0 | L1741921-25 | Fluoranthene | 0.0170 | J | 0.0138 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Benzo(a)anthracene | 0.0258 | J | 0.0135 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Benzo(b)fluoranthene | 0.0433 | J | 0.0143 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Benzo(g,h,i)perylene | 0.0311 | J | 0.0141 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Benzo(a)pyrene | 0.0374 | J | 0.0143 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Chrysene | 0.0232 | J | 0.0153 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Fluoranthene | 0.0366 | J | 0.0139 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Indeno(1,2,3-cd)pyrene | 0.0269 | J | 0.0217 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Phenanthrene | 0.0201 | J | 0.0153 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Di-n-butyl phthalate | 0.0335 | J | 0.0263 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| BS-I3-1-2.0 | L1741921-26 | Pyrene | 0.0389 | J | 0.0150 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Acenaphthylene | 0.119 | J | 0.109 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Benzo(a)anthracene | 0.232 | J | 0.136 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Benzo(b)fluoranthene | 0.608 | J | 0.144 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Benzo(g,h,i)perylene | 0.397 | J | 0.142 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Benzo(a)pyrene | 0.469 | J | 0.144 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Chrysene | 0.244 | J | 0.154 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Fluoranthene | 0.400 | J | 0.140 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Indeno(1,2,3-cd)pyrene | 0.441 | J | 0.219 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| G-H2-1-1.0 | L1741921-31 | Pyrene | 0.678 | J | 0.151 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |

# DETECTION SUMMARY

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-H2-1-2.0 | L1741921-32 | Benzo(a)anthracene | 0.317 | J | 0.0697 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Benzo(b)fluoranthene | 0.668 | | 0.0737 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Benzo(k)fluoranthene | 0.211 | J | 0.0703 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Benzo(g,h,i)perylene | 0.265 | J | 0.0723 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Benzo(a)pyrene | 0.484 | | 0.0735 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Chrysene | 0.329 | J | 0.0786 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Fluoranthene | 0.380 | J | 0.0713 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Fluorene | 0.0717 | J | 0.0643 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Indeno(1,2,3-cd)pyrene | 0.268 | J J | 0.112 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Naphthalene | 0.211 | J | 0.0992 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Phenanthrene | 0.179 | J | 0.0784 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Di-n-octyl phthalate | 1.39 | J | 0.267 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-2.0 | L1741921-32 | Pyrene | 0.453 | | 0.0769 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| G-H2-1-4.0 | L1741921-34 | Benzo(b)fluoranthene | 0.0276 | J | 0.0146 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| G-H2-1-4.0 | L1741921-34 | Benzo(g,h,i)perylene | 0.0176 | J | 0.0144 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| G-H2-1-4.0 | L1741921-34 | Benzo(a)pyrene | 0.0176 | J | 0.0146 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| G-H2-1-4.0 | L1741921-34 | Fluoranthene | 0.0154 | J | 0.0142 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| G-H2-1-4.0 | L1741921-34 | Phenanthrene | 0.0171 | J | 0.0156 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| G-H2-1-4.0 | L1741921-34 | Pyrene | 0.0267 | J | 0.0154 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| G/UC-I4-1-3.0 | L1741921-38 | Pyrene | 0.00898 | J | 0.00775 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| BS-I1-1-4.0 | L1741921-46 | Acenaphthene | 0.0929 | J | 0.0779 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Anthracene | 0.168 | J | 0.0857 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Benzo(a)anthracene | 0.502 | | 0.0848 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Benzo(b)fluoranthene | 0.896 | | 0.0898 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Benzo(k)fluoranthene | 0.306 | J | 0.0856 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Benzo(g,h,i)perylene | 0.484 | | 0.0880 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Benzo(a)pyrene | 0.705 | | 0.0895 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Chrysene | 0.546 | | 0.0957 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Fluoranthene | 0.821 | | 0.0869 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Indeno(1,2,3-cd)pyrene | 0.474 | J | 0.136 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Phenanthrene | 0.617 | | 0.0955 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Benzylbutyl phthalate | 0.314 | J J | 0.150 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Bis(2-ethylhexyl)phthalate | 2.37 | J | 0.610 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| BS-I1-1-4.0 | L1741921-46 | Pyrene | 1.12 | | 0.0937 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| G/UC-I3-1-1.0 | L1741921-48 | Benzo(b)fluoranthene | 0.0174 | J | 0.0138 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| G/UC-I3-1-1.0 | L1741921-48 | Fluoranthene | 0.0138 | J | 0.0134 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| G/UC-I3-1-1.0 | L1741921-48 | Pyrene | 0.0204 | J | 0.0145 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| G/UC-I3-1-2.0 | L1741921-49 | Benzo(b)fluoranthene | 0.00995 | J | 0.00786 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| G/UC-I3-1-2.0 | L1741921-49 | Fluoranthene | 0.0117 | J | 0.00761 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| G/UC-I3-1-2.0 | L1741921-49 | Pyrene | 0.0121 | J | 0.00821 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| G/UC-I3-1-4.0 | L1741921-51 | Acenaphthene | 0.0413 | J | 0.0135 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| G/UC-I3-1-4.0 | L1741921-51 | Benzo(b)fluoranthene | 0.0190 | J | 0.0155 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| G/UC-I3-1-4.0 | L1741921-51 | Chrysene | 0.0215 | J | 0.0165 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| G/UC-I3-1-4.0 | L1741921-51 | Fluoranthene | 0.0330 | J | 0.0150 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| G/UC-I3-1-4.0 | L1741921-51 | Fluorene | 0.0297 | J | 0.0135 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| G/UC-I3-1-4.0 | L1741921-51 | Phenanthrene | 0.0596 | J | 0.0165 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| G/UC-I3-1-4.0 | L1741921-51 | Pyrene | 0.0660 | J | 0.0162 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| G/UC-I1-1-4.0 | L1741921-64 | Benzo(b)fluoranthene | 0.0113 | J | 0.00825 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| G/UC-I1-1-4.0 | L1741921-64 | Benzo(a)pyrene | 0.00880 | J | 0.00823 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| G/UC-I1-1-4.0 | L1741921-64 | Chrysene | 0.00882 | J | 0.00880 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| G/UC-I1-1-4.0 | L1741921-64 | Fluoranthene | 0.0132 | J | 0.00799 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| G/UC-I1-1-4.0 | L1741921-64 | Phenanthrene | 0.0218 | J | 0.00879 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| G/UC-I1-1-4.0 | L1741921-64 | Pyrene | 0.0142 | J | 0.00861 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| G/BS-H1-1-1.0 | L1741921-68 | Naphthalene | 0.0278 | J | 0.0103 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |

# DETECTION SUMMARY

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-H1-1-2.0 | L1741921-69 | Benzo(a)anthracene | 0.126 | J | 0.0630 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| G/BS-H1-1-2.0 | L1741921-69 | Benzo(b)fluoranthene | 0.161 | J | 0.0667 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| G/BS-H1-1-2.0 | L1741921-69 | Benzo(g,h,i)perylene | 0.115 | J | 0.0654 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| G/BS-H1-1-2.0 | L1741921-69 | Benzo(a)pyrene | 0.213 | J | 0.0665 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| G/BS-H1-1-2.0 | L1741921-69 | Chrysene | 0.209 | J | 0.0711 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| G/BS-H1-1-2.0 | L1741921-69 | Fluoranthene | 0.0949 | J | 0.0645 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| G/BS-H1-1-2.0 | L1741921-69 | Phenanthrene | 0.207 | J | 0.0710 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| G/BS-H1-1-2.0 | L1741921-69 | Pyrene | 0.258 | J | 0.0696 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Acenaphthene | 0.533 | J | 0.143 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Anthracene | 0.247 | J | 0.158 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Benzo(a)anthracene | 3.37 | | 0.155 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Benzo(b)fluoranthene | 1.37 | | 0.165 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Benzo(k)fluoranthene | 0.256 | J | 0.157 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Benzo(g,h,i)perylene | 0.773 | J | 0.162 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Benzo(a)pyrene | 2.84 | | 0.165 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Chrysene | 3.54 | | 0.175 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Dibenz(a,h)anthracene | 0.696 | J | 0.245 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Fluoranthene | 0.638 | J | 0.159 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Fluorene | 0.895 | | 0.143 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Indeno(1,2,3-cd)pyrene | 0.287 | J | 0.249 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Naphthalene | 5.57 | | 0.222 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Phenanthrene | 2.35 | | 0.175 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-3.0 | L1741921-70 | Pyrene | 2.19 | | 0.172 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| G/BS-H1-1-4.0 | L1741921-71 | Fluoranthene | 0.00810 | J | 0.00789 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| G/BS-H1-1-4.0 | L1741921-71 | Phenanthrene | 0.00916 | J | 0.00867 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| G/BS-H1-1-4.0 | L1741921-71 | Pyrene | 0.00970 | J | 0.00850 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | U | | 0.0205 | 0.0455 | 1 | 06/05/2024 18:40 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 14.6 | | 0.619 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| Arsenic | 3.23 | | 0.590 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| Barium | 288 | | 0.0970 | 0.569 | 1 | 06/09/2024 08:32 | WG2299945 |
| Beryllium | 0.514 | | 0.0359 | 0.228 | 1 | 06/09/2024 08:32 | WG2299945 |
| Cadmium | 3.44 | | 0.0536 | 0.569 | 1 | 06/09/2024 08:32 | WG2299945 |
| Chromium | 66.8 | | 0.151 | 1.14 | 1 | 06/09/2024 08:32 | WG2299945 |
| Cobalt | 8.53 | | 0.0923 | 1.14 | 1 | 06/09/2024 08:32 | WG2299945 |
| Copper | 90.7 | | 0.455 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| Lead | 709 | | 0.237 | 0.569 | 1 | 06/09/2024 08:32 | WG2299945 |
| Molybdenum | 4.40 | | 0.124 | 0.569 | 1 | 06/09/2024 08:32 | WG2299945 |
| Nickel | 42.5 | | 0.150 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| Selenium | 1.21 | J | 0.870 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| Silver | 1.42 | B | 0.145 | 1.14 | 1 | 06/09/2024 08:32 | WG2299945 |
| Thallium | U | | 0.449 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| Vanadium | 45.6 | | 0.576 | 2.28 | 1 | 06/09/2024 08:32 | WG2299945 |
| Zinc | 679 | | 0.947 | 5.69 | 1 | 06/09/2024 08:32 | WG2299945 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0269 | 0.0774 | 2 | 06/19/2024 07:25 | WG2304583 |
| PCB 1221 | U | | 0.0269 | 0.0774 | 2 | 06/19/2024 07:25 | WG2304583 |
| PCB 1232 | U | | 0.0269 | 0.0774 | 2 | 06/19/2024 07:25 | WG2304583 |
| PCB 1242 | U | | 0.0269 | 0.0774 | 2 | 06/19/2024 07:25 | WG2304583 |
| PCB 1248 | U | | 0.0168 | 0.0387 | 2 | 06/19/2024 07:25 | WG2304583 |
| PCB 1254 | U | | 0.0168 | 0.0387 | 2 | 06/19/2024 07:25 | WG2304583 |
| PCB 1260 | U | | 0.0168 | 0.0387 | 2 | 06/19/2024 07:25 | WG2304583 |
| *(S) Decachlorobiphenyl* | *89.7* | | | *10.0-135* | | *06/19/2024 07:25* | WG2304583 |
| *(S) Tetrachloro-m-xylene* | *81.7* | | | *10.0-139* | | *06/19/2024 07:25* | WG2304583 |

**Sample Narrative:**

L1741921-01 WG2304583: Dilution due to sulfur cleanup.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0614 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Acenaphthylene | U | | 0.0534 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Anthracene | U | | 0.0675 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Benzidine | U | | 0.713 | 19.0 | 10 | 06/12/2024 12:08 | WG2302475 |
| Benzo(a)anthracene | 0.214 | J | 0.0668 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Benzo(b)fluoranthene | 0.499 | | 0.0707 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Benzo(k)fluoranthene | 0.125 | J | 0.0674 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Benzo(g,h,i)perylene | 0.184 | J | 0.0693 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.262 | J | 0.0705 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Bis(2-chlorethoxy)methane | U | | 0.114 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.125 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.164 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.133 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.0666 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.132 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Chrysene | 0.242 | J | 0.0754 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.105 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.112 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.115 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.113 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.140 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.109 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.124 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Fluoranthene | 0.385 | | 0.0684 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Fluorene | U | | 0.0617 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Hexachlorobenzene | U | | 0.134 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.128 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.199 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Hexachloroethane | U | | 0.149 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | 0.165 | J | 0.107 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Isophorone | U | | 0.116 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Naphthalene | 0.206 | J | 0.0952 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Nitrobenzene | U | | 0.132 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.562 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.287 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.126 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Phenanthrene | 0.268 | J | 0.0753 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.118 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | 1.41 | J | 0.480 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.130 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Diethyl phthalate | U | | 0.125 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Dimethyl phthalate | U | | 0.804 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.256 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Pyrene | 0.417 | | 0.0738 | 0.379 | 10 | 06/12/2024 12:08 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.118 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.123 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2-Chlorophenol | U | | 0.125 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.110 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.0990 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.860 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.887 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2-Nitrophenol | U | | 0.135 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 4-Nitrophenol | U | | 0.118 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Pentachlorophenol | U | | 0.102 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| Phenol | U | | 0.153 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.122 | 3.79 | 10 | 06/12/2024 12:08 | WG2302475 |
| *(S) 2-Fluorophenol* | *129* | J1 | | *12.0-120* | | *06/12/2024 12:08* | WG2302475 |
| *(S) Phenol-d5* | *114* | | | *10.0-120* | | *06/12/2024 12:08* | WG2302475 |
| *(S) Nitrobenzene-d5* | *108* | | | *10.0-122* | | *06/12/2024 12:08* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *123* | J1 | | *15.0-120* | | *06/12/2024 12:08* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *113* | | | *10.0-127* | | *06/12/2024 12:08* | WG2302475 |
| *(S) p-Terphenyl-d14* | *131* | J1 | | *10.0-120* | | *06/12/2024 12:08* | WG2302475 |

**Sample Narrative:**

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1741921-01 WG2302475: Dilution due to matrix impact during concentration procedure. Surrogate failure due to matrix.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 90.0 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.139 | | 0.0200 | 0.0445 | 1 | 06/05/2024 18:42 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 7.92 | | 0.605 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| Arsenic | U | | 0.576 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| Barium | 103 | | 0.0947 | 0.556 | 1 | 06/09/2024 08:34 | WG2299945 |
| Beryllium | 0.192 | J | 0.0350 | 0.222 | 1 | 06/09/2024 08:34 | WG2299945 |
| Cadmium | 0.476 | J | 0.0524 | 0.556 | 1 | 06/09/2024 08:34 | WG2299945 |
| Chromium | 17.9 | | 0.148 | 1.11 | 1 | 06/09/2024 08:34 | WG2299945 |
| Cobalt | 7.31 | | 0.0902 | 1.11 | 1 | 06/09/2024 08:34 | WG2299945 |
| Copper | 30.6 | | 0.445 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| Lead | 60.5 | | 0.231 | 0.556 | 1 | 06/09/2024 08:34 | WG2299945 |
| Molybdenum | 1.51 | | 0.121 | 0.556 | 1 | 06/09/2024 08:34 | WG2299945 |
| Nickel | 29.0 | | 0.147 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| Selenium | U | | 0.849 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| Silver | 0.454 | B J | 0.141 | 1.11 | 1 | 06/09/2024 08:34 | WG2299945 |
| Thallium | U | | 0.438 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| Vanadium | 37.2 | | 0.563 | 2.22 | 1 | 06/09/2024 08:34 | WG2299945 |
| Zinc | 123 | | 0.925 | 5.56 | 1 | 06/09/2024 08:34 | WG2299945 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0447 | 0.0613 | 1 | 06/11/2024 12:04 | WG2302420 |
| Acrylonitrile | U | | 0.00443 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| Benzene | U | | 0.000572 | 0.00123 | 1 | 06/11/2024 12:04 | WG2302420 |
| Bromobenzene | U | | 0.00110 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| Bromodichloromethane | U | | 0.000889 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Bromoform | U | | 0.00143 | 0.0306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Bromomethane | U | | 0.00241 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| n-Butylbenzene | U | | 0.00644 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| sec-Butylbenzene | U | | 0.00353 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| tert-Butylbenzene | U | | 0.00239 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| Carbon tetrachloride | U | | 0.00110 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| Chlorobenzene | 0.00114 | J | 0.000257 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Chlorodibromomethane | U | | 0.000750 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Chloroethane | U | | 0.00208 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| Chloroform | U | | 0.00126 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Chloromethane | U | | 0.00533 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00106 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 4-Chlorotoluene | U | | 0.000552 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00478 | 0.0306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.000794 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Dibromomethane | U | | 0.000919 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2-Dichlorobenzene | U | | 0.000521 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.000736 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.000858 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00197 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,1-Dichloroethane | U | | 0.000602 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.000796 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,1-Dichloroethene | U | | 0.000743 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| cis-1,2-Dichloroethene | U | | 0.000900 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00127 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00174 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.000992 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.000614 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.000928 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00140 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00169 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Di-isopropyl ether | U | | 0.000503 | 0.00123 | 1 | 06/11/2024 12:04 | WG2302420 |
| Ethylbenzene | U | | 0.000903 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.00736 | 0.0306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Isopropylbenzene | U | | 0.000521 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| p-Isopropyltoluene | U | | 0.00313 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.0778 | 0.123 | 1 | 06/11/2024 12:04 | WG2302420 |
| Methylene Chloride | U | | 0.00814 | 0.0306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00280 | 0.0306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Methyl tert-butyl ether | U | | 0.000429 | 0.00123 | 1 | 06/11/2024 12:04 | WG2302420 |
| Naphthalene | U | | 0.00598 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| n-Propylbenzene | U | | 0.00116 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| Styrene | U | | 0.000281 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00116 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000852 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000924 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Tetrachloroethene | U | | 0.00110 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Toluene | 0.00165 | J | 0.00159 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.00899 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.00539 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,1,1-Trichloroethane | U | | 0.00113 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.000732 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Trichloroethene | U | | 0.000716 | 0.00123 | 1 | 06/11/2024 12:04 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00101 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00199 | 0.0153 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2,4-Trimethylbenzene | 0.00240 | J | 0.00194 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,2,3-Trimethylbenzene | U | | 0.00194 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| 1,3,5-Trimethylbenzene | U | | 0.00245 | 0.00613 | 1 | 06/11/2024 12:04 | WG2302420 |
| Vinyl chloride | U | | 0.00142 | 0.00306 | 1 | 06/11/2024 12:04 | WG2302420 |
| Xylenes, Total | 0.00192 | J | 0.00108 | 0.00797 | 1 | 06/11/2024 12:04 | WG2302420 |
| *(S) Toluene-d8* | *91.1* | | | *75.0-131* | | *06/11/2024 12:04* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *67.0-138* | | *06/11/2024 12:04* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *88.0* | | | *70.0-130* | | *06/11/2024 12:04* | WG2302420 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00599 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Acenaphthylene | U | | 0.00521 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Anthracene | U | | 0.00659 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Benzidine | U | | 0.0696 | 1.86 | 1 | 06/12/2024 02:26 | WG2302475 |
| Benzo(a)anthracene | U | | 0.00653 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Benzo(b)fluoranthene | U | | 0.00690 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Benzo(k)fluoranthene | U | | 0.00658 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Benzo(g,h,i)perylene | U | | 0.00677 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | U | | 0.00688 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Bis(2-chlorethoxy)methane | U | | 0.0111 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.0122 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0160 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.0130 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.00650 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.0129 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Chrysene | U | | 0.00736 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.0103 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.0110 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.0112 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.0110 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.0137 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.0106 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.0121 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Fluoranthene | U | | 0.00668 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Fluorene | U | | 0.00603 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Hexachlorobenzene | U | | 0.0131 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.0125 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.0195 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Hexachloroethane | U | | 0.0146 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0105 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Isophorone | U | | 0.0113 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Naphthalene | U | | 0.00929 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Nitrobenzene | U | | 0.0129 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.0549 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.0280 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.0123 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Phenanthrene | U | | 0.00735 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.0116 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0469 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.0127 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Diethyl phthalate | U | | 0.0122 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Dimethyl phthalate | U | | 0.0785 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.0250 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Pyrene | U | | 0.00720 | 0.0370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.0116 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.0120 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2-Chlorophenol | U | | 0.0122 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.0108 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.00967 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0839 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.0866 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2-Nitrophenol | U | | 0.0132 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 4-Nitrophenol | U | | 0.0116 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Pentachlorophenol | U | | 0.00996 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| Phenol | U | | 0.0149 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.0119 | 0.370 | 1 | 06/12/2024 02:26 | WG2302475 |
| *(S) 2-Fluorophenol* | *69.9* | | | *12.0-120* | | *06/12/2024 02:26* | WG2302475 |
| *(S) Phenol-d5* | *65.2* | | | *10.0-120* | | *06/12/2024 02:26* | WG2302475 |
| *(S) Nitrobenzene-d5* | *64.8* | | | *10.0-122* | | *06/12/2024 02:26* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *60.2* | | | *15.0-120* | | *06/12/2024 02:26* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *61.7* | | | *10.0-127* | | *06/12/2024 02:26* | WG2302475 |
| *(S) p-Terphenyl-d14* | *68.7* | | | *10.0-120* | | *06/12/2024 02:26* | WG2302475 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.7 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0592 | | 0.0238 | 0.0528 | 1 | 06/05/2024 18:19 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 6.98 | | 0.718 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| Arsenic | U | | 0.684 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| Barium | 330 | | 0.112 | 0.660 | 1 | 06/09/2024 08:36 | WG2299945 |
| Beryllium | 0.837 | | 0.0416 | 0.264 | 1 | 06/09/2024 08:36 | WG2299945 |
| Cadmium | U | | 0.0622 | 0.660 | 1 | 06/09/2024 08:36 | WG2299945 |
| Chromium | 83.3 | | 0.176 | 1.32 | 1 | 06/09/2024 08:36 | WG2299945 |
| Cobalt | 13.8 | | 0.107 | 1.32 | 1 | 06/09/2024 08:36 | WG2299945 |
| Copper | 37.6 | | 0.528 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| Lead | 13.9 | | 0.275 | 0.660 | 1 | 06/09/2024 08:36 | WG2299945 |
| Molybdenum | 0.422 | J | 0.144 | 0.660 | 1 | 06/09/2024 08:36 | WG2299945 |
| Nickel | 71.9 | | 0.174 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| Selenium | 1.44 | J | 1.01 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| Silver | U | | 0.168 | 1.32 | 1 | 06/09/2024 08:36 | WG2299945 |
| Thallium | U | | 0.520 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| Vanadium | 78.0 | | 0.668 | 2.64 | 1 | 06/09/2024 08:36 | WG2299945 |
| Zinc | 77.8 | | 1.10 | 6.60 | 1 | 06/09/2024 08:36 | WG2299945 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | | 1.45 | 4.36 | 25 | 06/05/2024 22:24 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *06/05/2024 22:24* | WG2299409 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| C12-C22 Hydrocarbons | 3.71 | J | 0.968 | 5.28 | 1 | 06/11/2024 18:18 | WG2302178 |
| C22-C32 Hydrocarbons | 6.55 | | 1.76 | 5.28 | 1 | 06/11/2024 18:18 | WG2302178 |
| C32-C40 Hydrocarbons | 4.83 | J | 1.76 | 5.28 | 1 | 06/11/2024 18:18 | WG2302178 |
| *(S) o-Terphenyl* | *52.6* | | | *18.0-148* | | *06/11/2024 18:18* | WG2302178 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00712 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Acenaphthylene | U | | 0.00619 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Anthracene | U | | 0.00783 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Benzidine | U | | 0.0826 | 2.20 | 1 | 06/12/2024 02:46 | WG2302475 |
| Benzo(a)anthracene | U | | 0.00775 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Benzo(b)fluoranthene | U | | 0.00820 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Benzo(k)fluoranthene | U | | 0.00782 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Benzo(g,h,i)perylene | U | | 0.00804 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Benzo(a)pyrene | U | | 0.00817 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0132 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.0145 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0190 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.0154 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.00772 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.0153 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Chrysene | U | | 0.00874 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.0122 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.0130 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.0133 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.0131 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.0162 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.0126 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.0144 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Fluoranthene | U | | 0.00793 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Fluorene | U | | 0.00716 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Hexachlorobenzene | U | | 0.0156 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.0148 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.0231 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Hexachloroethane | U | | 0.0173 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0124 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Isophorone | U | | 0.0135 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Naphthalene | U | | 0.0110 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Nitrobenzene | U | | 0.0153 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.0652 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.0333 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.0147 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Phenanthrene | U | | 0.00873 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.0137 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0557 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.0151 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Diethyl phthalate | U | | 0.0145 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Dimethyl phthalate | U | | 0.0932 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.0297 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Pyrene | U | | 0.00855 | 0.0440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.0137 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.0143 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2-Chlorophenol | U | | 0.0145 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.0128 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.0115 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0997 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.103 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2-Nitrophenol | U | | 0.0157 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 4-Nitrophenol | U | | 0.0137 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Pentachlorophenol | U | | 0.0118 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| Phenol | U | | 0.0177 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.0141 | 0.440 | 1 | 06/12/2024 02:46 | WG2302475 |
| *(S) 2-Fluorophenol* | *73.5* | | | *12.0-120* | | *06/12/2024 02:46* | WG2302475 |
| *(S) Phenol-d5* | *72.1* | | | *10.0-120* | | *06/12/2024 02:46* | WG2302475 |
| *(S) Nitrobenzene-d5* | *72.2* | | | *10.0-122* | | *06/12/2024 02:46* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *67.8* | | | *15.0-120* | | *06/12/2024 02:46* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *64.0* | | | *10.0-127* | | *06/12/2024 02:46* | WG2302475 |
| *(S) p-Terphenyl-d14* | *68.8* | | | *10.0-120* | | *06/12/2024 02:46* | WG2302475 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.9 | | 1 | 06/13/2024 09:37 | WG2303966 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 2.73 | B J | 1.75 | 5.27 | 34 | 06/13/2024 00:35 | WG2303940 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.8* | | | *77.0-120* | | *06/13/2024 00:35* | WG2303940 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0768 | 0.105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Acrylonitrile | U | | 0.00761 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Benzene | U | | 0.000984 | 0.00211 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Bromobenzene | U | | 0.00189 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Bromodichloromethane | U | | 0.00153 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Bromoform | U | | 0.00246 | 0.0527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Bromomethane | U | | 0.00415 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| n-Butylbenzene | U | | 0.0111 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| sec-Butylbenzene | U | | 0.00607 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| tert-Butylbenzene | U | | 0.00411 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Carbon tetrachloride | U | | 0.00189 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Chlorobenzene | U | | 0.000443 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Chlorodibromomethane | U | | 0.00129 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Chloroethane | U | | 0.00358 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Chloroform | U | | 0.00217 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Chloromethane | U | | 0.00917 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00183 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000948 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00821 | 0.0527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.00136 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Dibromomethane | U | | 0.00158 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000895 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.00126 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00147 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00339 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.00103 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.00137 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.00128 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00155 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00218 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00299 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00170 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.00106 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00160 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00240 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00291 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Di-isopropyl ether | U | | 0.000864 | 0.00211 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Ethylbenzene | U | | 0.00155 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.0126 | 0.0527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Isopropylbenzene | U | | 0.000895 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00538 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.134 | 0.211 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Methylene Chloride | U | | 0.0140 | 0.0527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00480 | 0.0527 | 1.36 | 06/13/2024 01:00 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000737 | 0.00211 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Naphthalene | U | J3 | 0.0103 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| n-Propylbenzene | U | | 0.00200 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Styrene | U | | 0.000482 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00200 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00146 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00160 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Tetrachloroethene | 0.00242 | J | 0.00189 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Toluene | U | | 0.00274 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0154 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00926 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00195 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.00126 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Trichloroethene | U | | 0.00123 | 0.00211 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00174 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00341 | 0.0263 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00333 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00333 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00421 | 0.0105 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Vinyl chloride | U | | 0.00245 | 0.00527 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| Xylenes, Total | U | | 0.00186 | 0.0137 | 1.36 | 06/13/2024 01:00 | WG2304049 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/13/2024 01:00* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/13/2024 01:00* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *92.9* | | | *70.0-130* | | *06/13/2024 01:00* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.15 | J | 0.965 | 5.27 | 1 | 06/14/2024 03:56 | WG2304127 |
| C22-C32 Hydrocarbons | 2.94 | J | 1.75 | 5.27 | 1 | 06/14/2024 03:56 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.75 | 5.27 | 1 | 06/14/2024 03:56 | WG2304127 |
| *(S) o-Terphenyl* | *48.5* | | | *18.0-148* | | *06/14/2024 03:56* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00916 | J | 0.00710 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Acenaphthylene | U | | 0.00618 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Anthracene | 0.0241 | J | 0.00781 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Benzidine | U | | 0.0824 | 2.20 | 1 | 06/13/2024 21:28 | WG2304128 |
| Benzo(a)anthracene | 0.0540 | | 0.00773 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Benzo(b)fluoranthene | 0.0862 | | 0.00818 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Benzo(k)fluoranthene | 0.0287 | J | 0.00780 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Benzo(g,h,i)perylene | 0.0420 | J | 0.00802 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Benzo(a)pyrene | 0.0582 | | 0.00815 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0132 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0145 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0190 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0154 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.00770 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0153 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Chrysene | 0.0545 | | 0.00872 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0122 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0130 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0133 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0130 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0162 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0126 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0144 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Fluoranthene | 0.0764 | | 0.00791 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Fluorene | 0.00936 | J | 0.00714 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Hexachlorobenzene | U | | 0.0155 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0147 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0230 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Hexachloroethane | U | | 0.0172 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | 0.0370 | J | 0.0124 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Isophorone | U | | 0.0134 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Naphthalene | 0.111 | | 0.0110 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Nitrobenzene | U | | 0.0153 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.0650 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0332 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0146 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Phenanthrene | 0.0841 | | 0.00870 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0137 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0556 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0150 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Diethyl phthalate | U | | 0.0145 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Dimethyl phthalate | U | | 0.0930 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0296 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Pyrene | 0.0783 | | 0.00853 | 0.0438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0137 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0142 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2-Chlorophenol | U | | 0.0145 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0128 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0115 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0994 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.103 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2-Nitrophenol | U | | 0.0157 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 4-Nitrophenol | U | | 0.0137 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Pentachlorophenol | U | | 0.0118 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| Phenol | 0.0246 | J | 0.0176 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0141 | 0.438 | 1 | 06/13/2024 21:28 | WG2304128 |
| *(S) 2-Fluorophenol* | *48.6* | | | *12.0-120* | | *06/13/2024 21:28* | WG2304128 |
| *(S) Phenol-d5* | *42.1* | | | *10.0-120* | | *06/13/2024 21:28* | WG2304128 |
| *(S) Nitrobenzene-d5* | *47.8* | | | *10.0-122* | | *06/13/2024 21:28* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *52.2* | | | *15.0-120* | | *06/13/2024 21:28* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *38.8* | | | *10.0-127* | | *06/13/2024 21:28* | WG2304128 |
| *(S) p-Terphenyl-d14* | *48.4* | | | *10.0-120* | | *06/13/2024 21:28* | WG2304128 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.9 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | | 1.40 | 4.22 | 25 | 06/05/2024 22:46 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/05/2024 22:46* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0616 | 0.0843 | 1 | 06/11/2024 12:26 | WG2302420 |
| Acrylonitrile | U | | 0.00609 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| Benzene | U | | 0.000788 | 0.00169 | 1 | 06/11/2024 12:26 | WG2302420 |
| Bromobenzene | U | | 0.00152 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| Bromodichloromethane | U | | 0.00122 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Bromoform | U | | 0.00197 | 0.0422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Bromomethane | U | | 0.00332 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| n-Butylbenzene | U | | 0.00885 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| sec-Butylbenzene | U | | 0.00486 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| tert-Butylbenzene | U | | 0.00329 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| Carbon tetrachloride | U | | 0.00151 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| Chlorobenzene | U | | 0.000354 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Chlorodibromomethane | U | | 0.00103 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Chloroethane | U | | 0.00287 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| Chloroform | U | | 0.00174 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Chloromethane | U | | 0.00734 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00146 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 4-Chlorotoluene | U | | 0.000759 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00658 | 0.0422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.00109 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Dibromomethane | U | | 0.00126 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2-Dichlorobenzene | U | | 0.000717 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.00101 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.00118 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| Dichlorodifluoromethane | U | | 0.00272 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,1-Dichloroethane | U | | 0.000828 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.00109 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,1-Dichloroethene | U | | 0.00102 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| cis-1,2-Dichloroethene | U | | 0.00124 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00175 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00239 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.00136 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.000845 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.00128 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00192 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00233 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Di-isopropyl ether | U | | 0.000691 | 0.00169 | 1 | 06/11/2024 12:26 | WG2302420 |
| Ethylbenzene | U | | 0.00124 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.0101 | 0.0422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Isopropylbenzene | U | | 0.000717 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| p-Isopropyltoluene | U | | 0.00430 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.107 | 0.169 | 1 | 06/11/2024 12:26 | WG2302420 |
| Methylene Chloride | U | | 0.0112 | 0.0422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00385 | 0.0422 | 1 | 06/11/2024 12:26 | WG2302420 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000590 | 0.00169 | 1 | 06/11/2024 12:26 | WG2302420 |
| Naphthalene | U | | 0.00823 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| n-Propylbenzene | U | | 0.00160 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| Styrene | U | | 0.000386 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00160 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00117 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00127 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Tetrachloroethene | U | | 0.00151 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Toluene | U | | 0.00219 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.0124 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.00742 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,1,1-Trichloroethane | U | | 0.00156 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.00101 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Trichloroethene | U | | 0.000985 | 0.00169 | 1 | 06/11/2024 12:26 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00139 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00273 | 0.0211 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2,4-Trimethylbenzene | U | | 0.00266 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,2,3-Trimethylbenzene | U | | 0.00266 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| 1,3,5-Trimethylbenzene | U | | 0.00337 | 0.00843 | 1 | 06/11/2024 12:26 | WG2302420 |
| Vinyl chloride | U | | 0.00196 | 0.00422 | 1 | 06/11/2024 12:26 | WG2302420 |
| Xylenes, Total | U | | 0.00148 | 0.0110 | 1 | 06/11/2024 12:26 | WG2302420 |
| *(S) Toluene-d8* | *95.9* | | | *75.0-131* | | *06/11/2024 12:26* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *94.8* | | | *67.0-138* | | *06/11/2024 12:26* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *80.1* | | | *70.0-130* | | *06/11/2024 12:26* | WG2302420 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 4.96 | J | 0.966 | 5.27 | 1 | 06/11/2024 15:10 | WG2302178 |
| C22-C32 Hydrocarbons | 9.33 | | 1.75 | 5.27 | 1 | 06/11/2024 15:10 | WG2302178 |
| C32-C40 Hydrocarbons | 7.99 | | 1.75 | 5.27 | 1 | 06/11/2024 15:10 | WG2302178 |
| *(S) o-Terphenyl* | *55.1* | | | *18.0-148* | | *06/11/2024 15:10* | WG2302178 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 77.1 | | 1 | 06/13/2024 09:37 | WG2303966 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.54 | B J | 1.36 | 4.10 | 25 | 06/13/2024 09:52 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.9* | | | *77.0-120* | | *06/13/2024 09:52* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0599 | 0.0821 | 1 | 06/13/2024 01:20 | WG2304049 |
| Acrylonitrile | U | | 0.00593 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| Benzene | U | | 0.000767 | 0.00164 | 1 | 06/13/2024 01:20 | WG2304049 |
| Bromobenzene | U | | 0.00148 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| Bromodichloromethane | U | | 0.00119 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Bromoform | U | | 0.00192 | 0.0410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Bromomethane | U | | 0.00323 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| n-Butylbenzene | U | | 0.00862 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| sec-Butylbenzene | U | | 0.00473 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| tert-Butylbenzene | U | | 0.00320 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| Carbon tetrachloride | U | | 0.00147 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| Chlorobenzene | U | | 0.000345 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Chlorodibromomethane | U | | 0.00100 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Chloroethane | U | | 0.00279 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| Chloroform | U | | 0.00169 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Chloromethane | U | | 0.00714 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00142 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000739 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00640 | 0.0410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Dibromomethane | U | | 0.00123 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000698 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.000985 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00115 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00264 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000806 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.00107 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.000995 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00120 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00171 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00233 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00133 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000822 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00124 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00187 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00227 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Di-isopropyl ether | U | | 0.000673 | 0.00164 | 1 | 06/13/2024 01:20 | WG2304049 |
| Ethylbenzene | U | | 0.00121 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.00985 | 0.0410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Isopropylbenzene | U | | 0.000698 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00419 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.104 | 0.164 | 1 | 06/13/2024 01:20 | WG2304049 |
| Methylene Chloride | U | | 0.0109 | 0.0410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00374 | 0.0410 | 1 | 06/13/2024 01:20 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000575 | 0.00164 | 1 | 06/13/2024 01:20 | WG2304049 |
| Naphthalene | U | J3 | 0.00801 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| n-Propylbenzene | U | | 0.00156 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| Styrene | U | | 0.000376 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00156 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00114 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00124 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Tetrachloroethene | U | | 0.00147 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Toluene | U | | 0.00213 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0120 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00722 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00152 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.000980 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Trichloroethene | U | | 0.000959 | 0.00164 | 1 | 06/13/2024 01:20 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00136 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00266 | 0.0205 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00259 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00259 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00328 | 0.00821 | 1 | 06/13/2024 01:20 | WG2304049 |
| Vinyl chloride | U | | 0.00190 | 0.00410 | 1 | 06/13/2024 01:20 | WG2304049 |
| Xylenes, Total | U | | 0.00144 | 0.0107 | 1 | 06/13/2024 01:20 | WG2304049 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/13/2024 01:20* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/13/2024 01:20* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *83.9* | | | *70.0-130* | | *06/13/2024 01:20* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.950 | 5.19 | 1 | 06/14/2024 02:01 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.72 | 5.19 | 1 | 06/14/2024 02:01 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.72 | 5.19 | 1 | 06/14/2024 02:01 | WG2304127 |
| *(S) o-Terphenyl* | *62.6* | | | *18.0-148* | | *06/14/2024 02:01* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0699 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Acenaphthylene | U | | 0.0608 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Anthracene | U | | 0.0769 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Benzidine | U | | 0.812 | 21.6 | 10 | 06/14/2024 12:26 | WG2304128 |
| Benzo(a)anthracene | 0.125 | J | 0.0761 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Benzo(b)fluoranthene | 0.397 | J | 0.0805 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Benzo(k)fluoranthene | 0.102 | J | 0.0767 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Benzo(g,h,i)perylene | 0.110 | J | 0.0789 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Benzo(a)pyrene | 0.219 | J | 0.0802 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.130 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.143 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.187 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.152 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.0758 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.150 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Chrysene | 0.136 | J | 0.0858 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.120 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.128 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.131 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.128 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.159 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.124 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.141 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Fluoranthene | 0.180 | J | 0.0779 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Fluorene | U | | 0.0703 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Hexachlorobenzene | U | | 0.153 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.145 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.227 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Hexachloroethane | U | | 0.170 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.122 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Isophorone | U | | 0.132 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Naphthalene | 0.209 | J | 0.108 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Nitrobenzene | U | | 0.150 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.640 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.327 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.144 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Phenanthrene | 0.104 | J | 0.0857 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.135 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.547 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.148 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Diethyl phthalate | U | | 0.143 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Dimethyl phthalate | U | | 0.915 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.292 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Pyrene | 0.253 | J | 0.0840 | 0.432 | 10 | 06/14/2024 12:26 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.135 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.140 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2-Chlorophenol | U | | 0.143 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.126 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.113 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.979 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2,4-Dinitrophenol | U | | 1.01 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2-Nitrophenol | U | | 0.154 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 4-Nitrophenol | U | | 0.135 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Pentachlorophenol | U | | 0.116 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| Phenol | U | | 0.174 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.139 | 4.32 | 10 | 06/14/2024 12:26 | WG2304128 |
| *(S) 2-Fluorophenol* | *63.0* | | | *12.0-120* | | *06/14/2024 12:26* | WG2304128 |
| *(S) Phenol-d5* | *56.8* | | | *10.0-120* | | *06/14/2024 12:26* | WG2304128 |
| *(S) Nitrobenzene-d5* | *50.9* | | | *10.0-122* | | *06/14/2024 12:26* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *60.4* | | | *15.0-120* | | *06/14/2024 12:26* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *69.5* | | | *10.0-127* | | *06/14/2024 12:26* | WG2304128 |
| *(S) p-Terphenyl-d14* | *77.5* | | | *10.0-120* | | *06/14/2024 12:26* | WG2304128 |

**Sample Narrative:**

L1741921-06 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.2 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0533 | 0.0730 | 1 | 06/11/2024 12:48 | WG2302420 |
| Acrylonitrile | U | | 0.00527 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| Benzene | U | | 0.000682 | 0.00146 | 1 | 06/11/2024 12:48 | WG2302420 |
| Bromobenzene | U | | 0.00131 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| Bromodichloromethane | U | | 0.00106 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Bromoform | U | | 0.00171 | 0.0365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Bromomethane | U | | 0.00288 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| n-Butylbenzene | U | | 0.00766 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| sec-Butylbenzene | U | | 0.00420 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| tert-Butylbenzene | U | | 0.00285 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| Carbon tetrachloride | U | | 0.00131 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| Chlorobenzene | U | | 0.000307 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Chlorodibromomethane | U | | 0.000893 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Chloroethane | U | | 0.00248 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| Chloroform | U | | 0.00150 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Chloromethane | U | | 0.00635 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00126 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 4-Chlorotoluene | U | | 0.000657 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00569 | 0.0365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.000946 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Dibromomethane | U | | 0.00109 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2-Dichlorobenzene | U | | 0.000620 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.000876 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.00102 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| Dichlorodifluoromethane | U | | 0.00235 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,1-Dichloroethane | U | | 0.000717 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.000947 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,1-Dichloroethene | U | | 0.000885 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| cis-1,2-Dichloroethene | U | | 0.00107 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00152 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00207 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.00118 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.000731 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.00111 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00166 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00201 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Di-isopropyl ether | U | | 0.000598 | 0.00146 | 1 | 06/11/2024 12:48 | WG2302420 |
| Ethylbenzene | U | | 0.00108 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.00876 | 0.0365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Isopropylbenzene | U | | 0.000620 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| p-Isopropyltoluene | U | | 0.00372 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.0927 | 0.146 | 1 | 06/11/2024 12:48 | WG2302420 |
| Methylene Chloride | U | | 0.00969 | 0.0365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00333 | 0.0365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Methyl tert-butyl ether | U | | 0.000511 | 0.00146 | 1 | 06/11/2024 12:48 | WG2302420 |
| Naphthalene | U | | 0.00712 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| n-Propylbenzene | U | | 0.00139 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| Styrene | U | | 0.000334 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00138 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00101 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00110 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Tetrachloroethene | U | | 0.00131 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Toluene | 0.00220 | J | 0.00190 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.0107 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.00642 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,1,1-Trichloroethane | U | | 0.00135 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.000871 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Trichloroethene | U | | 0.000852 | 0.00146 | 1 | 06/11/2024 12:48 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00121 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00236 | 0.0182 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2,4-Trimethylbenzene | U | | 0.00231 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,2,3-Trimethylbenzene | U | | 0.00231 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| 1,3,5-Trimethylbenzene | U | | 0.00292 | 0.00730 | 1 | 06/11/2024 12:48 | WG2302420 |
| Vinyl chloride | U | | 0.00169 | 0.00365 | 1 | 06/11/2024 12:48 | WG2302420 |
| Xylenes, Total | 0.00153 | J | 0.00128 | 0.00949 | 1 | 06/11/2024 12:48 | WG2302420 |
| *(S) Toluene-d8* | *92.9* | | | *75.0-131* | | *06/11/2024 12:48* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *95.9* | | | *67.0-138* | | *06/11/2024 12:48* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *80.6* | | | *70.0-130* | | *06/11/2024 12:48* | WG2302420 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 93.8 | | 1 | 06/07/2024 12:45 | WG2300491 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0525 | | 0.0192 | 0.0427 | 1 | 06/08/2024 17:45 | WG2300583 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 23.5 | | 0.580 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| Arsenic | U | | 0.552 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| Barium | 62.9 | | 0.0909 | 0.533 | 1 | 06/09/2024 17:42 | WG2300701 |
| Beryllium | 0.0599 | J | 0.0336 | 0.213 | 1 | 06/09/2024 17:42 | WG2300701 |
| Cadmium | U | | 0.0502 | 0.533 | 1 | 06/09/2024 17:42 | WG2300701 |
| Chromium | 6.78 | | 0.142 | 1.07 | 1 | 06/09/2024 17:42 | WG2300701 |
| Cobalt | 11.6 | | 0.0865 | 1.07 | 1 | 06/09/2024 17:42 | WG2300701 |
| Copper | 44.2 | | 0.427 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| Lead | 23.2 | | 0.222 | 0.533 | 1 | 06/09/2024 17:42 | WG2300701 |
| Molybdenum | 1.00 | | 0.116 | 0.533 | 1 | 06/09/2024 17:42 | WG2300701 |
| Nickel | 7.96 | | 0.141 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| Selenium | U | | 0.815 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| Silver | 0.633 | J | 0.135 | 1.07 | 1 | 06/09/2024 17:42 | WG2300701 |
| Thallium | U | | 0.420 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| Vanadium | 58.4 | | 0.540 | 2.13 | 1 | 06/09/2024 17:42 | WG2300701 |
| Zinc | 77.1 | | 0.887 | 5.33 | 1 | 06/09/2024 17:42 | WG2300701 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0126 | 0.0363 | 1 | 06/13/2024 11:32 | WG2303247 |
| PCB 1221 | U | | 0.0126 | 0.0363 | 1 | 06/13/2024 11:32 | WG2303247 |
| PCB 1232 | U | | 0.0126 | 0.0363 | 1 | 06/13/2024 11:32 | WG2303247 |
| PCB 1242 | U | | 0.0126 | 0.0363 | 1 | 06/13/2024 11:32 | WG2303247 |
| PCB 1248 | U | | 0.00787 | 0.0181 | 1 | 06/13/2024 11:32 | WG2303247 |
| PCB 1254 | U | | 0.00787 | 0.0181 | 1 | 06/13/2024 11:32 | WG2303247 |
| PCB 1260 | U | | 0.00787 | 0.0181 | 1 | 06/13/2024 11:32 | WG2303247 |
| *(S) Decachlorobiphenyl* | *73.6* | | | *10.0-135* | | *06/13/2024 11:32* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *68.6* | | | *10.0-139* | | *06/13/2024 11:32* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00575 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Acenaphthylene | U | | 0.00500 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Anthracene | U | | 0.00632 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Benzidine | U | | 0.0668 | 1.78 | 1 | 06/12/2024 03:27 | WG2302475 |
| Benzo(a)anthracene | U | | 0.00626 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Benzo(b)fluoranthene | U | | 0.00662 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Benzo(k)fluoranthene | U | | 0.00631 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Benzo(g,h,i)perylene | U | | 0.00649 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Benzo(a)pyrene | U | | 0.00660 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Bis(2-chlorethoxy)methane | U | | 0.0107 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.0117 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0154 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.0125 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.00624 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.0124 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Chrysene | U | | 0.00706 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.00984 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.0105 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.0108 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.0106 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.0131 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.0102 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.0116 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Fluoranthene | U | | 0.00641 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Fluorene | U | | 0.00578 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Hexachlorobenzene | U | | 0.0126 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.0119 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.0187 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Hexachloroethane | U | | 0.0140 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0100 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Isophorone | U | | 0.0109 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Naphthalene | U | | 0.00892 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Nitrobenzene | U | | 0.0124 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.0527 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.0269 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.0118 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Phenanthrene | U | | 0.00705 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.0111 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0450 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.0122 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Diethyl phthalate | U | | 0.0117 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Dimethyl phthalate | U | | 0.0753 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.0240 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Pyrene | U | | 0.00691 | 0.0355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.0111 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.0115 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2-Chlorophenol | U | | 0.0117 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.0103 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.00928 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0805 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.0831 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2-Nitrophenol | U | | 0.0127 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 4-Nitrophenol | U | | 0.0111 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Pentachlorophenol | U | | 0.00956 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| Phenol | U | | 0.0143 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.0114 | 0.355 | 1 | 06/12/2024 03:27 | WG2302475 |
| *(S) 2-Fluorophenol* | *65.9* | | | *12.0-120* | | *06/12/2024 03:27* | WG2302475 |
| *(S) Phenol-d5* | *63.3* | | | *10.0-120* | | *06/12/2024 03:27* | WG2302475 |
| *(S) Nitrobenzene-d5* | *63.9* | | | *10.0-122* | | *06/12/2024 03:27* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *58.6* | | | *15.0-120* | | *06/12/2024 03:27* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *55.9* | | | *10.0-127* | | *06/12/2024 03:27* | WG2302475 |
| *(S) p-Terphenyl-d14* | *61.4* | | | *10.0-120* | | *06/12/2024 03:27* | WG2302475 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 87.6 | | 1 | 06/10/2024 12:51 | WG2300492 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.211 | | 0.0206 | 0.0457 | 1 | 06/08/2024 18:00 | WG2300583 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 9.28 | | 0.621 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| Arsenic | 4.61 | | 0.592 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| Barium | 168 | | 0.0973 | 0.571 | 1 | 06/09/2024 17:43 | WG2300701 |
| Beryllium | 0.357 | | 0.0360 | 0.228 | 1 | 06/09/2024 17:43 | WG2300701 |
| Cadmium | 2.41 | | 0.0538 | 0.571 | 1 | 06/09/2024 17:43 | WG2300701 |
| Chromium | 58.4 | | 0.152 | 1.14 | 1 | 06/09/2024 17:43 | WG2300701 |
| Cobalt | 15.9 | | 0.0926 | 1.14 | 1 | 06/09/2024 17:43 | WG2300701 |
| Copper | 64.1 | | 0.457 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| Lead | 123 | | 0.238 | 0.571 | 1 | 06/09/2024 17:43 | WG2300701 |
| Molybdenum | 0.504 | J | 0.125 | 0.571 | 1 | 06/09/2024 17:43 | WG2300701 |
| Nickel | 63.7 | | 0.151 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| Selenium | U | | 0.873 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| Silver | 0.387 | J | 0.145 | 1.14 | 1 | 06/09/2024 17:43 | WG2300701 |
| Thallium | U | | 0.450 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| Vanadium | 50.4 | | 0.578 | 2.28 | 1 | 06/09/2024 17:43 | WG2300701 |
| Zinc | 156 | | 0.950 | 5.71 | 1 | 06/09/2024 17:43 | WG2300701 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0478 | 0.0655 | 1 | 06/11/2024 13:10 | WG2302420 |
| Acrylonitrile | U | | 0.00473 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| Benzene | U | | 0.000612 | 0.00131 | 1 | 06/11/2024 13:10 | WG2302420 |
| Bromobenzene | U | | 0.00118 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| Bromodichloromethane | U | | 0.000950 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Bromoform | U | | 0.00153 | 0.0328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Bromomethane | U | | 0.00258 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| n-Butylbenzene | U | | 0.00688 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| sec-Butylbenzene | U | | 0.00377 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| tert-Butylbenzene | U | | 0.00256 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| Carbon tetrachloride | U | | 0.00118 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| Chlorobenzene | U | | 0.000275 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Chlorodibromomethane | U | | 0.000802 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Chloroethane | U | | 0.00223 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| Chloroform | U | | 0.00135 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Chloromethane | U | | 0.00570 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00113 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 4-Chlorotoluene | U | | 0.000590 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00511 | 0.0328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.000849 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Dibromomethane | U | | 0.000983 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2-Dichlorobenzene | U | | 0.000557 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.000786 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.000917 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00211 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,1-Dichloroethane | U | | 0.000643 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.000850 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,1-Dichloroethene | U | | 0.000794 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| cis-1,2-Dichloroethene | U | | 0.000962 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00136 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00186 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.00106 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.000656 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.000992 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00149 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00181 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Di-isopropyl ether | U | | 0.000537 | 0.00131 | 1 | 06/11/2024 13:10 | WG2302420 |
| Ethylbenzene | U | | 0.000966 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.00786 | 0.0328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Isopropylbenzene | U | | 0.000557 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| p-Isopropyltoluene | 0.00654 | J | 0.00334 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.0832 | 0.131 | 1 | 06/11/2024 13:10 | WG2302420 |
| Methylene Chloride | U | | 0.00870 | 0.0328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00299 | 0.0328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Methyl tert-butyl ether | U | | 0.000459 | 0.00131 | 1 | 06/11/2024 13:10 | WG2302420 |
| Naphthalene | U | | 0.00639 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| n-Propylbenzene | U | | 0.00124 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| Styrene | U | | 0.000300 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00124 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000911 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000988 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Tetrachloroethene | U | | 0.00117 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Toluene | U | | 0.00170 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.00960 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.00577 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,1,1-Trichloroethane | U | | 0.00121 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.000782 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Trichloroethene | U | | 0.000765 | 0.00131 | 1 | 06/11/2024 13:10 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00108 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00212 | 0.0164 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2,4-Trimethylbenzene | 0.00257 | J | 0.00207 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,2,3-Trimethylbenzene | U | | 0.00207 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| 1,3,5-Trimethylbenzene | U | | 0.00262 | 0.00655 | 1 | 06/11/2024 13:10 | WG2302420 |
| Vinyl chloride | U | | 0.00152 | 0.00328 | 1 | 06/11/2024 13:10 | WG2302420 |
| Xylenes, Total | 0.00148 | J | 0.00115 | 0.00852 | 1 | 06/11/2024 13:10 | WG2302420 |
| *(S) Toluene-d8* | *95.0* | | | *75.0-131* | | *06/11/2024 13:10* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *94.3* | | | *67.0-138* | | *06/11/2024 13:10* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *78.8* | | | *70.0-130* | | *06/11/2024 13:10* | WG2302420 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0123 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Acenaphthylene | U | | 0.0107 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Anthracene | U | | 0.0136 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Benzidine | U | | 0.143 | 3.81 | 2 | 06/11/2024 11:33 | WG2301591 |
| Benzo(a)anthracene | 0.0484 | J | 0.0134 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Benzo(b)fluoranthene | 0.0864 | | 0.0142 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Benzo(k)fluoranthene | 0.0282 | J | 0.0135 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Benzo(g,h,i)perylene | 0.0153 | J | 0.0139 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.0592 | J | 0.0142 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0228 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0251 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0329 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0267 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0134 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0265 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Chrysene | 0.0593 | J | 0.0151 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.0211 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0225 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0231 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0226 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0281 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0218 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0249 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Fluoranthene | 0.0868 | | 0.0137 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Fluorene | U | | 0.0123 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Hexachlorobenzene | U | | 0.0270 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0256 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0400 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Hexachloroethane | U | | 0.0299 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0215 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Isophorone | U | | 0.0233 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Naphthalene | U | | 0.0191 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Nitrobenzene | U | | 0.0265 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.113 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0576 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0254 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Phenanthrene | 0.0340 | J | 0.0151 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0238 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0964 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0260 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Diethyl phthalate | U | | 0.0251 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Dimethyl phthalate | U | | 0.161 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0514 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Pyrene | 0.0987 | | 0.0148 | 0.0761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0238 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0247 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2-Chlorophenol | U | | 0.0251 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0222 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0199 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.172 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.178 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2-Nitrophenol | U | | 0.0272 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 4-Nitrophenol | U | | 0.0238 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Pentachlorophenol | U | | 0.0204 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| Phenol | U | | 0.0306 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0244 | 0.761 | 2 | 06/11/2024 11:33 | WG2301591 |
| *(S) 2-Fluorophenol* | *61.3* | | | *12.0-120* | | *06/11/2024 11:33* | WG2301591 |
| *(S) Phenol-d5* | *57.4* | | | *10.0-120* | | *06/11/2024 11:33* | WG2301591 |
| *(S) Nitrobenzene-d5* | *51.5* | | | *10.0-122* | | *06/11/2024 11:33* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *60.5* | | | *15.0-120* | | *06/11/2024 11:33* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *72.0* | | | *10.0-127* | | *06/11/2024 11:33* | WG2301591 |
| *(S) p-Terphenyl-d14* | *69.0* | | | *10.0-120* | | *06/11/2024 11:33* | WG2301591 |

**Sample Narrative:**

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1741921-09 WG2301591: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 88.3 | | 1 | 06/10/2024 12:51 | WG2300492 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.360 | | 0.0204 | 0.0453 | 1 | 06/08/2024 18:09 | WG2300583 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 10.0 | | 0.616 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| Arsenic | 5.55 | | 0.586 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| Barium | 87.0 | | 0.0964 | 0.566 | 1 | 06/09/2024 17:45 | WG2300701 |
| Beryllium | 0.162 | J | 0.0357 | 0.226 | 1 | 06/09/2024 17:45 | WG2300701 |
| Cadmium | U | | 0.0533 | 0.566 | 1 | 06/09/2024 17:45 | WG2300701 |
| Chromium | 38.8 | | 0.151 | 1.13 | 1 | 06/09/2024 17:45 | WG2300701 |
| Cobalt | 19.0 | | 0.0918 | 1.13 | 1 | 06/09/2024 17:45 | WG2300701 |
| Copper | 63.2 | | 0.453 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| Lead | 25.0 | | 0.235 | 0.566 | 1 | 06/09/2024 17:45 | WG2300701 |
| Molybdenum | 0.385 | J | 0.123 | 0.566 | 1 | 06/09/2024 17:45 | WG2300701 |
| Nickel | 31.1 | | 0.149 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| Selenium | U | | 0.865 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| Silver | 0.590 | J | 0.144 | 1.13 | 1 | 06/09/2024 17:45 | WG2300701 |
| Thallium | U | | 0.446 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| Vanadium | 53.0 | | 0.573 | 2.26 | 1 | 06/09/2024 17:45 | WG2300701 |
| Zinc | 56.9 | | 0.942 | 5.66 | 1 | 06/09/2024 17:45 | WG2300701 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 4.95 | B | 1.05 | 3.16 | 25 | 06/10/2024 15:40 | WG2302200 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.0* | | | *77.0-120* | | *06/10/2024 15:40* | WG2302200 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| C12-C22 Hydrocarbons | 8.08 | | 0.830 | 4.53 | 1 | 06/11/2024 19:30 | WG2302178 |
| C22-C32 Hydrocarbons | 51.5 | | 1.51 | 4.53 | 1 | 06/11/2024 19:30 | WG2302178 |
| C32-C40 Hydrocarbons | 36.0 | | 1.51 | 4.53 | 1 | 06/11/2024 19:30 | WG2302178 |
| *(S) o-Terphenyl* | *57.2* | | | *18.0-148* | | *06/11/2024 19:30* | WG2302178 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0122 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Acenaphthylene | U | | 0.0106 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Anthracene | U | | 0.0135 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Benzidine | U | | 0.141 | 3.78 | 2 | 06/11/2024 04:00 | WG2301591 |
| Benzo(a)anthracene | U | | 0.0132 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Benzo(b)fluoranthene | U | | 0.0140 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Benzo(k)fluoranthene | U | | 0.0134 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Benzo(g,h,i)perylene | U | | 0.0138 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Benzo(a)pyrene | U | | 0.0140 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0226 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0249 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0326 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0265 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0132 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0263 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Chrysene | U | | 0.0149 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.0209 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0223 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0229 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0224 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0278 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0216 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0247 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Fluoranthene | U | | 0.0136 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Fluorene | U | | 0.0122 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Hexachlorobenzene | U | | 0.0267 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0254 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0396 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Hexachloroethane | U | | 0.0297 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0213 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Isophorone | U | | 0.0231 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Naphthalene | U | | 0.0189 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Nitrobenzene | U | | 0.0263 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.112 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0570 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0251 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Phenanthrene | U | | 0.0149 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0235 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0955 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0258 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Diethyl phthalate | U | | 0.0249 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Dimethyl phthalate | U | | 0.160 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0509 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Pyrene | U | | 0.0147 | 0.0754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0235 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0244 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2-Chlorophenol | U | | 0.0249 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0220 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0197 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.171 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.177 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2-Nitrophenol | U | | 0.0269 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 4-Nitrophenol | U | | 0.0235 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Pentachlorophenol | U | | 0.0203 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| Phenol | U | | 0.0303 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0242 | 0.754 | 2 | 06/11/2024 04:00 | WG2301591 |
| *(S) 2-Fluorophenol* | *60.0* | | | *12.0-120* | | *06/11/2024 04:00* | WG2301591 |
| *(S) Phenol-d5* | *50.5* | | | *10.0-120* | | *06/11/2024 04:00* | WG2301591 |
| *(S) Nitrobenzene-d5* | *52.3* | | | *10.0-122* | | *06/11/2024 04:00* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *59.9* | | | *15.0-120* | | *06/11/2024 04:00* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *36.5* | | | *10.0-127* | | *06/11/2024 04:00* | WG2301591 |
| *(S) p-Terphenyl-d14* | *55.9* | | | *10.0-120* | | *06/11/2024 04:00* | WG2301591 |

**Sample Narrative:**

L1741921-10 WG2301591: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 79.9 | | 1 | 06/13/2024 09:37 | WG2303966 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | | 1.30 | 3.90 | 25 | 06/13/2024 10:11 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.6* | | | *77.0-120* | | *06/13/2024 10:11* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0570 | 0.0781 | 1 | 06/13/2024 01:39 | WG2304049 |
| Acrylonitrile | U | | 0.00564 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| Benzene | U | | 0.000729 | 0.00156 | 1 | 06/13/2024 01:39 | WG2304049 |
| Bromobenzene | U | | 0.00141 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| Bromodichloromethane | U | | 0.00113 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Bromoform | U | | 0.00183 | 0.0390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Bromomethane | U | | 0.00308 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| n-Butylbenzene | U | | 0.00820 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| sec-Butylbenzene | U | | 0.00450 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| tert-Butylbenzene | U | | 0.00305 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| Carbon tetrachloride | U | | 0.00140 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| Chlorobenzene | U | | 0.000328 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Chlorodibromomethane | U | | 0.000956 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Chloroethane | U | | 0.00266 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| Chloroform | U | | 0.00161 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Chloromethane | U | | 0.00679 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00135 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000703 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00609 | 0.0390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.00101 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Dibromomethane | U | | 0.00117 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000664 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.000937 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00109 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00251 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000767 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.00101 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.000946 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00115 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00162 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00222 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00126 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000782 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00118 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00178 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00216 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Di-isopropyl ether | U | | 0.000640 | 0.00156 | 1 | 06/13/2024 01:39 | WG2304049 |
| Ethylbenzene | U | | 0.00115 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.00937 | 0.0390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Isopropylbenzene | U | | 0.000664 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00398 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.0992 | 0.156 | 1 | 06/13/2024 01:39 | WG2304049 |
| Methylene Chloride | U | | 0.0104 | 0.0390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00356 | 0.0390 | 1 | 06/13/2024 01:39 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000547 | 0.00156 | 1 | 06/13/2024 01:39 | WG2304049 |
| Naphthalene | U | J3 | 0.00762 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| n-Propylbenzene | U | | 0.00148 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| Styrene | U | | 0.000358 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00148 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00109 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00118 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Tetrachloroethene | U | | 0.00140 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Toluene | U | | 0.00203 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0114 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00687 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00144 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.000932 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Trichloroethene | U | | 0.000912 | 0.00156 | 1 | 06/13/2024 01:39 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00129 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00253 | 0.0195 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00247 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00247 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00312 | 0.00781 | 1 | 06/13/2024 01:39 | WG2304049 |
| Vinyl chloride | U | | 0.00181 | 0.00390 | 1 | 06/13/2024 01:39 | WG2304049 |
| Xylenes, Total | U | | 0.00137 | 0.0102 | 1 | 06/13/2024 01:39 | WG2304049 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/13/2024 01:39* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/13/2024 01:39* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *91.5* | | | *70.0-130* | | *06/13/2024 01:39* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.917 | 5.00 | 1 | 06/14/2024 03:27 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.66 | 5.00 | 1 | 06/14/2024 03:27 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.66 | 5.00 | 1 | 06/14/2024 03:27 | WG2304127 |
| *(S) o-Terphenyl* | *62.4* | | | *18.0-148* | | *06/14/2024 03:27* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0308 | J | 0.0135 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Acenaphthylene | 0.171 | | 0.0117 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Anthracene | 0.199 | | 0.0149 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Benzidine | U | | 0.156 | 4.18 | 2 | 06/13/2024 23:32 | WG2304128 |
| Benzo(a)anthracene | 0.929 | | 0.0146 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Benzo(b)fluoranthene | 1.28 | | 0.0155 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Benzo(k)fluoranthene | 0.460 | | 0.0148 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Benzo(g,h,i)perylene | 0.622 | | 0.0153 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Benzo(a)pyrene | 1.12 | | 0.0155 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0250 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0275 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0360 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0293 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.0146 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0290 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Chrysene | 1.20 | | 0.0165 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Dibenz(a,h)anthracene | 0.180 | | 0.0231 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0246 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0253 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0248 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0308 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0239 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0273 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Fluoranthene | 1.41 | | 0.0150 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Fluorene | 0.0594 | J | 0.0135 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Hexachlorobenzene | U | | 0.0295 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0280 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0438 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Hexachloroethane | U | | 0.0328 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | 0.669 | | 0.0235 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Isophorone | U | | 0.0255 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Naphthalene | 0.0254 | J | 0.0209 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Nitrobenzene | U | | 0.0290 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.124 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0630 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0278 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Phenanthrene | 0.806 | | 0.0165 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0260 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.106 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0285 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Diethyl phthalate | U | | 0.0275 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Dimethyl phthalate | U | | 0.176 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0563 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Pyrene | 1.66 | | 0.0163 | 0.0833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0260 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0270 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2-Chlorophenol | U | | 0.0275 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0243 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0218 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.189 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.195 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2-Nitrophenol | U | | 0.0298 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 4-Nitrophenol | U | | 0.0260 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Pentachlorophenol | U | | 0.0224 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| Phenol | U | | 0.0335 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0268 | 0.833 | 2 | 06/13/2024 23:32 | WG2304128 |
| *(S) 2-Fluorophenol* | *56.0* | | | *12.0-120* | | *06/13/2024 23:32* | WG2304128 |
| *(S) Phenol-d5* | *51.9* | | | *10.0-120* | | *06/13/2024 23:32* | WG2304128 |
| *(S) Nitrobenzene-d5* | *50.8* | | | *10.0-122* | | *06/13/2024 23:32* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *58.5* | | | *15.0-120* | | *06/13/2024 23:32* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *51.9* | | | *10.0-127* | | *06/13/2024 23:32* | WG2304128 |
| *(S) p-Terphenyl-d14* | *67.5* | | | *10.0-120* | | *06/13/2024 23:32* | WG2304128 |

**Sample Narrative:**

L1741921-11 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 06/10/2024 12:51 | WG2300492 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.34 | B J | 1.13 | 3.40 | 25 | 06/10/2024 15:59 | WG2302200 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.2* | | | *77.0-120* | | *06/10/2024 15:59* | WG2302200 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0496 | 0.0679 | 1 | 06/11/2024 13:32 | WG2302420 |
| Acrylonitrile | U | | 0.00490 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| Benzene | U | | 0.000634 | 0.00136 | 1 | 06/11/2024 13:32 | WG2302420 |
| Bromobenzene | U | | 0.00122 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| Bromodichloromethane | U | | 0.000985 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Bromoform | U | | 0.00159 | 0.0340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Bromomethane | U | | 0.00268 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| n-Butylbenzene | U | | 0.00713 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| sec-Butylbenzene | U | | 0.00391 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| tert-Butylbenzene | U | | 0.00265 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| Carbon tetrachloride | U | | 0.00122 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| Chlorobenzene | U | | 0.000285 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Chlorodibromomethane | U | | 0.000831 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Chloroethane | U | | 0.00231 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| Chloroform | U | | 0.00140 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Chloromethane | U | | 0.00591 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00118 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 4-Chlorotoluene | U | | 0.000611 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00530 | 0.0340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.000880 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Dibromomethane | U | | 0.00102 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2-Dichlorobenzene | U | | 0.000577 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.000815 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.000951 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| Dichlorodifluoromethane | U | | 0.00219 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,1-Dichloroethane | U | | 0.000667 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.000882 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,1-Dichloroethene | U | | 0.000823 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| cis-1,2-Dichloroethene | U | | 0.000997 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00141 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00193 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.00110 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.000681 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.00103 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00155 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00187 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Di-isopropyl ether | U | | 0.000557 | 0.00136 | 1 | 06/11/2024 13:32 | WG2302420 |
| Ethylbenzene | U | | 0.00100 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.00815 | 0.0340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Isopropylbenzene | U | | 0.000577 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| p-Isopropyltoluene | U | | 0.00346 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.0863 | 0.136 | 1 | 06/11/2024 13:32 | WG2302420 |
| Methylene Chloride | U | | 0.00902 | 0.0340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00310 | 0.0340 | 1 | 06/11/2024 13:32 | WG2302420 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000475 | 0.00136 | 1 | 06/11/2024 13:32 | WG2302420 |
| Naphthalene | U | | 0.00663 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| n-Propylbenzene | U | | 0.00129 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| Styrene | U | | 0.000311 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00129 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000944 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00102 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Tetrachloroethene | U | | 0.00122 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Toluene | U | | 0.00177 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.00996 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.00598 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,1,1-Trichloroethane | U | | 0.00125 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.000811 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Trichloroethene | U | | 0.000793 | 0.00136 | 1 | 06/11/2024 13:32 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00112 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00220 | 0.0170 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2,4-Trimethylbenzene | U | | 0.00215 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,2,3-Trimethylbenzene | U | | 0.00215 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| 1,3,5-Trimethylbenzene | U | | 0.00272 | 0.00679 | 1 | 06/11/2024 13:32 | WG2302420 |
| Vinyl chloride | U | | 0.00158 | 0.00340 | 1 | 06/11/2024 13:32 | WG2302420 |
| Xylenes, Total | U | | 0.00120 | 0.00883 | 1 | 06/11/2024 13:32 | WG2302420 |
| *(S) Toluene-d8* | *94.5* | | | *75.0-131* | | *06/11/2024 13:32* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *67.0-138* | | *06/11/2024 13:32* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *79.1* | | | *70.0-130* | | *06/11/2024 13:32* | WG2302420 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.851 | 4.64 | 1 | 06/11/2024 12:46 | WG2302178 |
| C22-C32 Hydrocarbons | U | | 1.54 | 4.64 | 1 | 06/11/2024 12:46 | WG2302178 |
| C32-C40 Hydrocarbons | U | | 1.54 | 4.64 | 1 | 06/11/2024 12:46 | WG2302178 |
| *(S) o-Terphenyl* | *57.0* | | | *18.0-148* | | *06/11/2024 12:46* | WG2302178 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 06/10/2024 12:51 | WG2300492 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.275 | | 0.0198 | 0.0439 | 1 | 06/08/2024 18:12 | WG2300583 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 9.73 | | 0.597 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| Arsenic | 2.67 | | 0.568 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| Barium | 200 | | 0.0935 | 0.549 | 1 | 06/09/2024 17:50 | WG2300701 |
| Beryllium | 0.408 | | 0.0346 | 0.219 | 1 | 06/09/2024 17:50 | WG2300701 |
| Cadmium | 0.886 | | 0.0517 | 0.549 | 1 | 06/09/2024 17:50 | WG2300701 |
| Chromium | 48.8 | | 0.146 | 1.10 | 1 | 06/09/2024 17:50 | WG2300701 |
| Cobalt | 9.54 | | 0.0890 | 1.10 | 1 | 06/09/2024 17:50 | WG2300701 |
| Copper | 57.5 | | 0.439 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| Lead | 291 | | 0.228 | 0.549 | 1 | 06/09/2024 17:50 | WG2300701 |
| Molybdenum | 1.54 | | 0.120 | 0.549 | 1 | 06/09/2024 17:50 | WG2300701 |
| Nickel | 55.6 | | 0.145 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| Selenium | 1.68 | J | 0.838 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| Silver | 0.467 | J | 0.139 | 1.10 | 1 | 06/09/2024 17:50 | WG2300701 |
| Thallium | U | | 0.432 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| Vanadium | 43.1 | | 0.555 | 2.19 | 1 | 06/09/2024 17:50 | WG2300701 |
| Zinc | 309 | | 0.913 | 5.49 | 1 | 06/09/2024 17:50 | WG2300701 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0129 | 0.0373 | 1 | 06/13/2024 11:41 | WG2303247 |
| PCB 1221 | U | | 0.0129 | 0.0373 | 1 | 06/13/2024 11:41 | WG2303247 |
| PCB 1232 | U | | 0.0129 | 0.0373 | 1 | 06/13/2024 11:41 | WG2303247 |
| PCB 1242 | U | | 0.0129 | 0.0373 | 1 | 06/13/2024 11:41 | WG2303247 |
| PCB 1248 | U | | 0.00810 | 0.0187 | 1 | 06/13/2024 11:41 | WG2303247 |
| PCB 1254 | U | | 0.00810 | 0.0187 | 1 | 06/13/2024 11:41 | WG2303247 |
| PCB 1260 | 1.12 | | 0.0405 | 0.0933 | 5 | 06/19/2024 01:23 | WG2303247 |
| *(S) Decachlorobiphenyl* | *72.1* | | | *10.0-135* | | *06/13/2024 11:41* | WG2303247 |
| *(S) Decachlorobiphenyl* | *92.2* | | | *10.0-135* | | *06/19/2024 01:23* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *62.8* | | | *10.0-139* | | *06/13/2024 11:41* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *75.5* | | | *10.0-139* | | *06/19/2024 01:23* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0591 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Acenaphthylene | 0.124 | J | 0.0515 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Anthracene | 0.0690 | J | 0.0651 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Benzidine | U | | 0.687 | 18.3 | 10 | 06/11/2024 06:49 | WG2301591 |
| Benzo(a)anthracene | 0.291 | J | 0.0644 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Benzo(b)fluoranthene | 0.542 | | 0.0681 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Benzo(k)fluoranthene | 0.172 | J | 0.0650 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Benzo(g,h,i)perylene | 0.335 | J | 0.0668 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Benzo(a)pyrene | 0.404 | | 0.0679 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.110 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.121 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.158 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.128 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0642 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.127 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Chrysene | 0.357 | J | 0.0726 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.101 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.108 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.111 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.109 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.135 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.105 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.120 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Fluoranthene | 0.311 | J | 0.0659 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Fluorene | U | | 0.0595 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Hexachlorobenzene | U | | 0.129 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.123 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.192 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Hexachloroethane | U | | 0.144 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | 0.300 | J | 0.103 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Isophorone | U | | 0.112 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Naphthalene | U | | 0.0917 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Nitrobenzene | U | | 0.127 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.542 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.277 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.122 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Phenanthrene | 0.189 | J | 0.0725 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.114 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.463 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.125 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Diethyl phthalate | U | | 0.121 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Dimethyl phthalate | U | | 0.775 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.247 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Pyrene | 0.422 | | 0.0711 | 0.365 | 10 | 06/11/2024 06:49 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.114 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.119 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2-Chlorophenol | U | | 0.121 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.106 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0955 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.828 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.855 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2-Nitrophenol | U | | 0.131 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 4-Nitrophenol | U | | 0.114 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Pentachlorophenol | U | | 0.0983 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| Phenol | U | | 0.147 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.117 | 3.65 | 10 | 06/11/2024 06:49 | WG2301591 |
| *(S) 2-Fluorophenol* | *61.5* | | | *12.0-120* | | *06/11/2024 06:49* | WG2301591 |
| *(S) Phenol-d5* | *51.2* | | | *10.0-120* | | *06/11/2024 06:49* | WG2301591 |
| *(S) Nitrobenzene-d5* | *58.1* | | | *10.0-122* | | *06/11/2024 06:49* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *57.8* | | | *15.0-120* | | *06/11/2024 06:49* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *42.4* | | | *10.0-127* | | *06/11/2024 06:49* | WG2301591 |
| *(S) p-Terphenyl-d14* | *58.4* | | | *10.0-120* | | *06/11/2024 06:49* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 90.0 | | 1 | 06/10/2024 12:51 | WG2300492 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.159 | | 0.0200 | 0.0445 | 1 | 06/08/2024 18:14 | WG2300583 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 9.21 | | 0.605 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| Arsenic | 1.85 | J | 0.576 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| Barium | 166 | | 0.0947 | 0.556 | 1 | 06/09/2024 17:52 | WG2300701 |
| Beryllium | 0.494 | | 0.0350 | 0.222 | 1 | 06/09/2024 17:52 | WG2300701 |
| Cadmium | 0.829 | | 0.0524 | 0.556 | 1 | 06/09/2024 17:52 | WG2300701 |
| Chromium | 51.7 | | 0.148 | 1.11 | 1 | 06/09/2024 17:52 | WG2300701 |
| Cobalt | 8.62 | | 0.0901 | 1.11 | 1 | 06/09/2024 17:52 | WG2300701 |
| Copper | 44.6 | | 0.445 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| Lead | 381 | | 0.231 | 0.556 | 1 | 06/09/2024 17:52 | WG2300701 |
| Molybdenum | 1.02 | | 0.121 | 0.556 | 1 | 06/09/2024 17:52 | WG2300701 |
| Nickel | 57.6 | | 0.147 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| Selenium | U | | 0.849 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| Silver | 0.339 | J | 0.141 | 1.11 | 1 | 06/09/2024 17:52 | WG2300701 |
| Thallium | U | | 0.438 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| Vanadium | 37.3 | | 0.562 | 2.22 | 1 | 06/09/2024 17:52 | WG2300701 |
| Zinc | 280 | | 0.925 | 5.56 | 1 | 06/09/2024 17:52 | WG2300701 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0902 | 0.124 | 2 | 06/13/2024 00:28 | WG2303955 |
| Acrylonitrile | U | | 0.00892 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| Benzene | U | | 0.00115 | 0.00247 | 2 | 06/13/2024 00:28 | WG2303955 |
| Bromobenzene | U | | 0.00222 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| Bromodichloromethane | U | | 0.00179 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Bromoform | U | | 0.00289 | 0.0618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Bromomethane | U | | 0.00487 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| n-Butylbenzene | U | | 0.0130 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| sec-Butylbenzene | U | | 0.00712 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| tert-Butylbenzene | U | | 0.00482 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| Carbon tetrachloride | 0.00817 | J | 0.00222 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| Chlorobenzene | U | | 0.000519 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Chlorodibromomethane | U | | 0.00151 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Chloroethane | U | | 0.00420 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| Chloroform | U | | 0.00254 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Chloromethane | U | | 0.0107 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| 2-Chlorotoluene | U | | 0.00214 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 4-Chlorotoluene | U | | 0.00111 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00964 | 0.0618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2-Dibromoethane | U | | 0.00161 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Dibromomethane | U | | 0.00185 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2-Dichlorobenzene | U | | 0.00105 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,3-Dichlorobenzene | U | | 0.00148 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,4-Dichlorobenzene | U | | 0.00173 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00398 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,1-Dichloroethane | 0.0640 | | 0.00121 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2-Dichloroethane | U | | 0.00161 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,1-Dichloroethene | U | | 0.00149 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| cis-1,2-Dichloroethene | U | | 0.00182 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| trans-1,2-Dichloroethene | U | | 0.00257 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2-Dichloropropane | U | | 0.00351 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,1-Dichloropropene | U | | 0.00200 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,3-Dichloropropane | U | | 0.00124 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| cis-1,3-Dichloropropene | U | | 0.00187 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| trans-1,3-Dichloropropene | U | | 0.00282 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 2,2-Dichloropropane | U | | 0.00341 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Di-isopropyl ether | U | | 0.00101 | 0.00247 | 2 | 06/13/2024 00:28 | WG2303955 |
| Ethylbenzene | U | | 0.00182 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Hexachloro-1,3-butadiene | U | | 0.0148 | 0.0618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Isopropylbenzene | U | | 0.00105 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| p-Isopropyltoluene | U | | 0.00630 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 2-Butanone (MEK) | U | | 0.157 | 0.247 | 2 | 06/13/2024 00:28 | WG2303955 |
| Methylene Chloride | U | | 0.0164 | 0.0618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00563 | 0.0618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Methyl tert-butyl ether | U | | 0.000865 | 0.00247 | 2 | 06/13/2024 00:28 | WG2303955 |
| Naphthalene | 0.0143 | J | 0.0121 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| n-Propylbenzene | U | | 0.00235 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| Styrene | U | | 0.000566 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00235 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00172 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00187 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Tetrachloroethene | 0.00327 | J | 0.00221 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Toluene | 0.00405 | J | 0.00321 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2,3-Trichlorobenzene | U | | 0.0182 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2,4-Trichlorobenzene | U | | 0.0109 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,1,1-Trichloroethane | 0.0717 | | 0.00229 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,1,2-Trichloroethane | U | | 0.00147 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Trichloroethene | 0.0831 | | 0.00145 | 0.00247 | 2 | 06/13/2024 00:28 | WG2303955 |
| Trichlorofluoromethane | U | | 0.00204 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2,3-Trichloropropane | U | | 0.00400 | 0.0309 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2,4-Trimethylbenzene | U | | 0.00390 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,2,3-Trimethylbenzene | U | | 0.00390 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| 1,3,5-Trimethylbenzene | U | | 0.00494 | 0.0124 | 2 | 06/13/2024 00:28 | WG2303955 |
| Vinyl chloride | U | | 0.00287 | 0.00618 | 2 | 06/13/2024 00:28 | WG2303955 |
| Xylenes, Total | 0.00551 | J | 0.00217 | 0.0161 | 2 | 06/13/2024 00:28 | WG2303955 |
| *(S) Toluene-d8* | *113* | | | *75.0-131* | | *06/13/2024 00:28* | WG2303955 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *67.0-138* | | *06/13/2024 00:28* | WG2303955 |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* | | *06/13/2024 00:28* | WG2303955 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0131 | 0.0378 | 1 | 06/13/2024 12:08 | WG2303247 |
| PCB 1221 | U | | 0.0131 | 0.0378 | 1 | 06/13/2024 12:08 | WG2303247 |
| PCB 1232 | U | | 0.0131 | 0.0378 | 1 | 06/13/2024 12:08 | WG2303247 |
| PCB 1242 | U | | 0.0131 | 0.0378 | 1 | 06/13/2024 12:08 | WG2303247 |
| PCB 1248 | U | | 0.00820 | 0.0189 | 1 | 06/13/2024 12:08 | WG2303247 |
| PCB 1254 | U | | 0.00820 | 0.0189 | 1 | 06/13/2024 12:08 | WG2303247 |
| PCB 1260 | 1.40 | | 0.0410 | 0.0945 | 5 | 06/14/2024 16:12 | WG2303247 |
| *(S) Decachlorobiphenyl* | *66.3* | | | *10.0-135* | | *06/13/2024 12:08* | WG2303247 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Decachlorobiphenyl* | *75.1* | | | *10.0-135* | | *06/14/2024 16:12* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *56.3* | | | *10.0-139* | | *06/14/2024 16:12* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *61.0* | | | *10.0-139* | | *06/13/2024 12:08* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0120 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Acenaphthylene | 0.0415 | J | 0.0104 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Anthracene | 0.0313 | J | 0.0132 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Benzidine | U | | 0.139 | 3.71 | 2 | 06/11/2024 04:20 | WG2301591 |
| Benzo(a)anthracene | 0.128 | | 0.0130 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Benzo(b)fluoranthene | 0.203 | | 0.0138 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Benzo(k)fluoranthene | 0.0840 | | 0.0131 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Benzo(g,h,i)perylene | 0.147 | | 0.0136 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Benzo(a)pyrene | 0.158 | | 0.0138 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0222 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0245 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0320 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0260 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0130 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0258 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Chrysene | 0.149 | | 0.0147 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Dibenz(a,h)anthracene | 0.0310 | J | 0.0206 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0219 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0225 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0220 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0273 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0212 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0242 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Fluoranthene | 0.139 | | 0.0133 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Fluorene | U | | 0.0120 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Hexachlorobenzene | U | | 0.0262 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0249 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0389 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Hexachloroethane | U | | 0.0291 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | 0.136 | | 0.0209 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Isophorone | U | | 0.0227 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Naphthalene | U | | 0.0186 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Nitrobenzene | U | | 0.0258 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.110 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0560 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0247 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Phenanthrene | 0.0859 | | 0.0147 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0231 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0938 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0253 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Diethyl phthalate | U | | 0.0245 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Dimethyl phthalate | U | | 0.157 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0500 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Pyrene | 0.176 | | 0.0145 | 0.0740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0231 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0240 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2-Chlorophenol | U | | 0.0245 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0216 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0193 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | U | | 0.168 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.173 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2-Nitrophenol | U | | 0.0265 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 4-Nitrophenol | U | | 0.0231 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Pentachlorophenol | U | | 0.0199 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| Phenol | U | | 0.0298 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0238 | 0.740 | 2 | 06/11/2024 04:20 | WG2301591 |
| *(S) 2-Fluorophenol* | *62.2* | | | *12.0-120* | | *06/11/2024 04:20* | WG2301591 |
| *(S) Phenol-d5* | *54.4* | | | *10.0-120* | | *06/11/2024 04:20* | WG2301591 |
| *(S) Nitrobenzene-d5* | *56.2* | | | *10.0-122* | | *06/11/2024 04:20* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *63.7* | | | *15.0-120* | | *06/11/2024 04:20* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *39.0* | | | *10.0-127* | | *06/11/2024 04:20* | WG2301591 |
| *(S) p-Terphenyl-d14* | *58.0* | | | *10.0-120* | | *06/11/2024 04:20* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.0 | | 1 | 06/10/2024 12:51 | WG2300492 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.215 | | 0.0228 | 0.0506 | 1 | 06/08/2024 18:17 | WG2300583 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 13.1 | | 0.689 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| Arsenic | 1.12 | J | 0.656 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| Barium | 269 | | 0.108 | 0.633 | 1 | 06/09/2024 17:54 | WG2300701 |
| Beryllium | 0.271 | | 0.0399 | 0.253 | 1 | 06/09/2024 17:54 | WG2300701 |
| Cadmium | 1.04 | | 0.0596 | 0.633 | 1 | 06/09/2024 17:54 | WG2300701 |
| Chromium | 57.8 | | 0.168 | 1.27 | 1 | 06/09/2024 17:54 | WG2300701 |
| Cobalt | 8.47 | | 0.103 | 1.27 | 1 | 06/09/2024 17:54 | WG2300701 |
| Copper | 102 | | 0.506 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| Lead | 644 | | 0.263 | 0.633 | 1 | 06/09/2024 17:54 | WG2300701 |
| Molybdenum | 4.22 | | 0.138 | 0.633 | 1 | 06/09/2024 17:54 | WG2300701 |
| Nickel | 52.2 | | 0.167 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| Selenium | U | | 0.967 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| Silver | 0.430 | J | 0.161 | 1.27 | 1 | 06/09/2024 17:54 | WG2300701 |
| Thallium | U | | 0.499 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| Vanadium | 39.3 | | 0.641 | 2.53 | 1 | 06/09/2024 17:54 | WG2300701 |
| Zinc | 345 | | 1.05 | 6.33 | 1 | 06/09/2024 17:54 | WG2300701 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.89 | B J | 1.29 | 3.88 | 25 | 06/10/2024 16:19 | WG2302200 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *06/10/2024 16:19* | WG2302200 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0567 | 0.0776 | 1 | 06/11/2024 13:54 | WG2302420 |
| Acrylonitrile | U | | 0.00560 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| Benzene | 0.00115 | J | 0.000725 | 0.00155 | 1 | 06/11/2024 13:54 | WG2302420 |
| Bromobenzene | U | | 0.00140 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| Bromodichloromethane | U | | 0.00113 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Bromoform | U | | 0.00182 | 0.0388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Bromomethane | U | | 0.00306 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| n-Butylbenzene | U | | 0.00815 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| sec-Butylbenzene | U | | 0.00447 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| tert-Butylbenzene | U | | 0.00303 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| Carbon tetrachloride | U | | 0.00139 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| Chlorobenzene | 0.000866 | J | 0.000326 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Chlorodibromomethane | U | | 0.000950 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Chloroethane | U | | 0.00264 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| Chloroform | U | | 0.00160 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Chloromethane | U | | 0.00675 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00134 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 4-Chlorotoluene | U | | 0.000699 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00605 | 0.0388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.00101 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Dibromomethane | U | | 0.00116 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2-Dichlorobenzene | 0.00108 | J | 0.000660 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.000931 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.00109 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| Dichlorodifluoromethane | U | | 0.00250 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,1-Dichloroethane | 0.118 | | 0.000762 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.00101 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,1-Dichloroethene | 0.00357 | J | 0.000941 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| cis-1,2-Dichloroethene | 0.00343 | J | 0.00114 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00161 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00220 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.00126 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.000778 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.00118 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00177 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00214 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Di-isopropyl ether | U | | 0.000636 | 0.00155 | 1 | 06/11/2024 13:54 | WG2302420 |
| Ethylbenzene | U | | 0.00114 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.00931 | 0.0388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Isopropylbenzene | U | | 0.000660 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| p-Isopropyltoluene | U | | 0.00396 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.0986 | 0.155 | 1 | 06/11/2024 13:54 | WG2302420 |
| Methylene Chloride | U | | 0.0103 | 0.0388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00354 | 0.0388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Methyl tert-butyl ether | U | | 0.000543 | 0.00155 | 1 | 06/11/2024 13:54 | WG2302420 |
| Naphthalene | U | | 0.00758 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| n-Propylbenzene | U | | 0.00147 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| Styrene | U | | 0.000356 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00147 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00108 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00117 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Tetrachloroethene | 0.00425 | | 0.00139 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Toluene | 0.00206 | J | 0.00202 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.0114 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.00683 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,1,1-Trichloroethane | 0.0419 | | 0.00143 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.000927 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Trichloroethene | 0.145 | | 0.000907 | 0.00155 | 1 | 06/11/2024 13:54 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00128 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00251 | 0.0194 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2,4-Trimethylbenzene | 0.00329 | J | 0.00245 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,2,3-Trimethylbenzene | U | | 0.00245 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| 1,3,5-Trimethylbenzene | U | | 0.00310 | 0.00776 | 1 | 06/11/2024 13:54 | WG2302420 |
| Vinyl chloride | U | | 0.00180 | 0.00388 | 1 | 06/11/2024 13:54 | WG2302420 |
| Xylenes, Total | 0.00256 | J | 0.00137 | 0.0101 | 1 | 06/11/2024 13:54 | WG2302420 |
| *(S) Toluene-d8* | *94.8* | | | *75.0-131* | | *06/11/2024 13:54* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *67.0-138* | | *06/11/2024 13:54* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *84.6* | | | *70.0-130* | | *06/11/2024 13:54* | WG2302420 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 310 | | 37.1 | 203 | 40 | 06/11/2024 20:42 | WG2302178 |
| C22-C32 Hydrocarbons | 2280 | | 67.4 | 203 | 40 | 06/11/2024 20:42 | WG2302178 |
| C32-C40 Hydrocarbons | 1170 | | 67.4 | 203 | 40 | 06/11/2024 20:42 | WG2302178 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *06/11/2024 20:42* | WG2302178 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0149 | 0.0431 | 1 | 07/01/2024 23:17 | WG2314791 |
| PCB 1221 | U | | 0.0149 | 0.0431 | 1 | 07/01/2024 23:17 | WG2314791 |
| PCB 1232 | U | | 0.0149 | 0.0431 | 1 | 07/01/2024 23:17 | WG2314791 |
| PCB 1242 | U | | 0.0149 | 0.0431 | 1 | 07/01/2024 23:17 | WG2314791 |
| PCB 1248 | U | | 0.00934 | 0.0215 | 1 | 07/01/2024 23:17 | WG2314791 |
| PCB 1254 | U | | 0.00934 | 0.0215 | 1 | 07/01/2024 23:17 | WG2314791 |
| PCB 1260 | 0.997 | | 0.00934 | 0.0215 | 1 | 07/01/2024 23:17 | WG2314791 |
| *(S) Decachlorobiphenyl* | *77.4* | | | *10.0-135* | | *07/01/2024 23:17* | WG2314791 |
| *(S) Tetrachloro-m-xylene* | *80.9* | | | *10.0-139* | | *07/01/2024 23:17* | WG2314791 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0682 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Acenaphthylene | 0.122 | J | 0.0594 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Anthracene | U | | 0.0751 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Benzidine | U | | 0.793 | 21.1 | 10 | 06/11/2024 07:10 | WG2301591 |
| Benzo(a)anthracene | 0.121 | J | 0.0743 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Benzo(b)fluoranthene | 0.287 | J | 0.0786 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Benzo(k)fluoranthene | 0.0841 | J | 0.0750 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Benzo(g,h,i)perylene | 0.196 | J | 0.0771 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Benzo(a)pyrene | 0.217 | J | 0.0784 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.127 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.139 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.182 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.148 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0741 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.147 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Chrysene | 0.173 | J | 0.0838 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.117 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.125 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.128 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.125 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.156 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.121 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.138 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Fluoranthene | 0.143 | J | 0.0761 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Fluorene | U | | 0.0686 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Hexachlorobenzene | U | | 0.149 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.142 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.222 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Hexachloroethane | U | | 0.166 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | 0.203 | J | 0.119 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Isophorone | U | | 0.129 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Naphthalene | U | | 0.106 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Nitrobenzene | U | | 0.147 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.626 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | U | | 0.319 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.141 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Phenanthrene | 0.0904 | J | 0.0837 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.132 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.534 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.144 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Diethyl phthalate | U | | 0.139 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Dimethyl phthalate | U | | 0.894 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.285 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Pyrene | 0.220 | J | 0.0821 | 0.422 | 10 | 06/11/2024 07:10 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.132 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.137 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2-Chlorophenol | U | | 0.139 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.123 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.110 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.956 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.986 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2-Nitrophenol | U | | 0.151 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 4-Nitrophenol | U | | 0.132 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Pentachlorophenol | U | | 0.113 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| Phenol | U | | 0.170 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.135 | 4.22 | 10 | 06/11/2024 07:10 | WG2301591 |
| *(S) 2-Fluorophenol* | *52.6* | | | *12.0-120* | | *06/11/2024 07:10* | WG2301591 |
| *(S) Phenol-d5* | *48.9* | | | *10.0-120* | | *06/11/2024 07:10* | WG2301591 |
| *(S) Nitrobenzene-d5* | *48.9* | | | *10.0-122* | | *06/11/2024 07:10* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *50.2* | | | *15.0-120* | | *06/11/2024 07:10* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *35.5* | | | *10.0-127* | | *06/11/2024 07:10* | WG2301591 |
| *(S) p-Terphenyl-d14* | *49.8* | | | *10.0-120* | | *06/11/2024 07:10* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 81.0 | | 1 | 06/13/2024 09:37 | WG2303966 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Lead | 31.9 | | 0.257 | 0.617 | 1 | 07/01/2024 19:55 | WG2315127 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | | 1.27 | 3.81 | 25 | 06/13/2024 10:30 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.0* | | | *77.0-120* | | *06/13/2024 10:30* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0557 | 0.0762 | 1 | 06/13/2024 01:59 | WG2304049 |
| Acrylonitrile | U | | 0.00550 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| Benzene | U | | 0.000712 | 0.00152 | 1 | 06/13/2024 01:59 | WG2304049 |
| Bromobenzene | U | | 0.00137 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| Bromodichloromethane | U | | 0.00111 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Bromoform | U | | 0.00178 | 0.0381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Bromomethane | U | | 0.00300 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| n-Butylbenzene | U | | 0.00801 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| sec-Butylbenzene | U | | 0.00439 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| tert-Butylbenzene | U | | 0.00297 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| Carbon tetrachloride | U | | 0.00137 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| Chlorobenzene | U | | 0.000320 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Chlorodibromomethane | U | | 0.000933 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Chloroethane | U | | 0.00259 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| Chloroform | U | | 0.00157 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Chloromethane | U | | 0.00663 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000686 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00595 | 0.0381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.000988 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Dibromomethane | U | | 0.00114 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000648 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.000915 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00245 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000749 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.000990 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.000924 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00159 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00217 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00123 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000764 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00115 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00174 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00210 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Di-isopropyl ether | U | | 0.000625 | 0.00152 | 1 | 06/13/2024 01:59 | WG2304049 |
| Ethylbenzene | U | | 0.00112 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.00915 | 0.0381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Isopropylbenzene | U | | 0.000648 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00389 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.0968 | 0.152 | 1 | 06/13/2024 01:59 | WG2304049 |
| Methylene Chloride | U | | 0.0101 | 0.0381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00348 | 0.0381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Methyl tert-butyl ether | U | | 0.000534 | 0.00152 | 1 | 06/13/2024 01:59 | WG2304049 |
| Naphthalene | U | J3 | 0.00744 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| n-Propylbenzene | U | | 0.00145 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| Styrene | U | | 0.000349 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00145 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Tetrachloroethene | U | | 0.00137 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Toluene | U | | 0.00198 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00671 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.000910 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Trichloroethene | U | | 0.000891 | 0.00152 | 1 | 06/13/2024 01:59 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00247 | 0.0191 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00241 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00241 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00305 | 0.00762 | 1 | 06/13/2024 01:59 | WG2304049 |
| Vinyl chloride | U | | 0.00177 | 0.00381 | 1 | 06/13/2024 01:59 | WG2304049 |
| Xylenes, Total | U | | 0.00134 | 0.00991 | 1 | 06/13/2024 01:59 | WG2304049 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/13/2024 01:59* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/13/2024 01:59* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *91.2* | | | *70.0-130* | | *06/13/2024 01:59* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 17.8 | | 0.905 | 4.94 | 1 | 06/14/2024 04:25 | WG2304127 |
| C22-C32 Hydrocarbons | 57.2 | | 1.64 | 4.94 | 1 | 06/14/2024 04:25 | WG2304127 |
| C32-C40 Hydrocarbons | 22.0 | | 1.64 | 4.94 | 1 | 06/14/2024 04:25 | WG2304127 |
| *(S) o-Terphenyl* | *44.4* | | | *18.0-148* | | *06/14/2024 04:25* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0117 | J | 0.00665 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Acenaphthylene | 0.0376 | J | 0.00579 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Anthracene | 0.0568 | | 0.00732 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Benzidine | U | | 0.0773 | 2.06 | 1 | 06/13/2024 21:07 | WG2304128 |
| Benzo(a)anthracene | 0.257 | | 0.00725 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Benzo(b)fluoranthene | 0.343 | | 0.00767 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Benzo(k)fluoranthene | 0.122 | | 0.00731 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Benzo(g,h,i)perylene | 0.174 | | 0.00752 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Benzo(a)pyrene | 0.290 | | 0.00764 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0123 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0136 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0178 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0144 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Chloronaphthalene | U | | 0.00722 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0143 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Chrysene | 0.327 | | 0.00817 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Dibenz(a,h)anthracene | 0.0473 | | 0.0114 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0122 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0125 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 1,4-Dichlorobenzene | U | | 0.0122 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0152 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0118 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0135 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Fluoranthene | 0.374 | | 0.00742 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Fluorene | 0.0222 | J | 0.00669 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Hexachlorobenzene | U | | 0.0146 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0138 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0216 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Hexachloroethane | U | | 0.0162 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | 0.174 | | 0.0116 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Isophorone | U | | 0.0126 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Naphthalene | 0.0246 | J | 0.0103 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Nitrobenzene | U | | 0.0143 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.0610 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0311 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0137 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Phenanthrene | 0.225 | | 0.00816 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0128 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0521 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0141 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Diethyl phthalate | U | | 0.0136 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Dimethyl phthalate | U | | 0.0871 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0278 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Pyrene | 0.448 | | 0.00800 | 0.0411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0128 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0133 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2-Chlorophenol | U | | 0.0136 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0120 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0107 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0932 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.0962 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2-Nitrophenol | U | | 0.0147 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 4-Nitrophenol | U | | 0.0128 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Pentachlorophenol | U | | 0.0111 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| Phenol | U | | 0.0165 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0132 | 0.411 | 1 | 06/13/2024 21:07 | WG2304128 |
| *(S) 2-Fluorophenol* | *55.6* | | | *12.0-120* | | *06/13/2024 21:07* | WG2304128 |
| *(S) Phenol-d5* | *45.7* | | | *10.0-120* | | *06/13/2024 21:07* | WG2304128 |
| *(S) Nitrobenzene-d5* | *47.8* | | | *10.0-122* | | *06/13/2024 21:07* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *53.4* | | | *15.0-120* | | *06/13/2024 21:07* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *40.3* | | | *10.0-127* | | *06/13/2024 21:07* | WG2304128 |
| *(S) p-Terphenyl-d14* | *51.5* | | | *10.0-120* | | *06/13/2024 21:07* | WG2304128 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 73.9 | | 1 | 06/10/2024 12:51 | WG2300492 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.03 | B J | 1.49 | 4.48 | 25 | 06/10/2024 16:38 | WG2302200 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *77.0-120* | | *06/10/2024 16:38* | WG2302200 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0655 | 0.0897 | 1 | 06/11/2024 14:16 | WG2302420 |
| Acrylonitrile | U | | 0.00647 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| Benzene | U | | 0.000837 | 0.00179 | 1 | 06/11/2024 14:16 | WG2302420 |
| Bromobenzene | U | | 0.00161 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| Bromodichloromethane | U | | 0.00130 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Bromoform | U | | 0.00210 | 0.0448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Bromomethane | U | | 0.00353 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| n-Butylbenzene | U | | 0.00942 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| sec-Butylbenzene | U | | 0.00516 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| tert-Butylbenzene | U | | 0.00350 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| Carbon tetrachloride | U | | 0.00161 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| Chlorobenzene | U | | 0.000377 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Chlorodibromomethane | U | | 0.00110 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Chloroethane | U | | 0.00305 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| Chloroform | U | | 0.00185 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Chloromethane | U | | 0.00780 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00155 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 4-Chlorotoluene | U | | 0.000807 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00699 | 0.0448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.00116 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Dibromomethane | U | | 0.00135 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2-Dichlorobenzene | U | | 0.000762 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.00108 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.00126 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| Dichlorodifluoromethane | U | | 0.00289 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,1-Dichloroethane | U | | 0.000881 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.00116 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,1-Dichloroethene | U | | 0.00109 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| cis-1,2-Dichloroethene | U | | 0.00132 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00187 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00255 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.00145 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.000898 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.00136 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00204 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00247 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Di-isopropyl ether | U | | 0.000735 | 0.00179 | 1 | 06/11/2024 14:16 | WG2302420 |
| Ethylbenzene | U | | 0.00132 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.0108 | 0.0448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Isopropylbenzene | U | | 0.000762 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| p-Isopropyltoluene | U | | 0.00457 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.114 | 0.179 | 1 | 06/11/2024 14:16 | WG2302420 |
| Methylene Chloride | U | | 0.0119 | 0.0448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00409 | 0.0448 | 1 | 06/11/2024 14:16 | WG2302420 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000628 | 0.00179 | 1 | 06/11/2024 14:16 | WG2302420 |
| Naphthalene | U | | 0.00875 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| n-Propylbenzene | U | | 0.00170 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| Styrene | U | | 0.000411 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00170 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00125 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00135 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Tetrachloroethene | U | | 0.00161 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Toluene | U | | 0.00233 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.0131 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.00789 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,1,1-Trichloroethane | U | | 0.00166 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.00107 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Trichloroethene | U | | 0.00105 | 0.00179 | 1 | 06/11/2024 14:16 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00148 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00291 | 0.0224 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2,4-Trimethylbenzene | U | | 0.00283 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,2,3-Trimethylbenzene | U | | 0.00283 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| 1,3,5-Trimethylbenzene | U | | 0.00359 | 0.00897 | 1 | 06/11/2024 14:16 | WG2302420 |
| Vinyl chloride | U | | 0.00208 | 0.00448 | 1 | 06/11/2024 14:16 | WG2302420 |
| Xylenes, Total | U | | 0.00158 | 0.0117 | 1 | 06/11/2024 14:16 | WG2302420 |
| *(S) Toluene-d8* | *86.8* | | | *75.0-131* | | *06/11/2024 14:16* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/11/2024 14:16* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *89.9* | | | *70.0-130* | | *06/11/2024 14:16* | WG2302420 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 22.3 | J6 | 0.992 | 5.41 | 1 | 06/11/2024 13:43 | WG2302178 |
| C22-C32 Hydrocarbons | 42.6 | J3 J6 | 1.80 | 5.41 | 1 | 06/11/2024 13:43 | WG2302178 |
| C32-C40 Hydrocarbons | 20.7 | | 1.80 | 5.41 | 1 | 06/11/2024 13:43 | WG2302178 |
| *(S) o-Terphenyl* | *49.7* | | | *18.0-148* | | *06/11/2024 13:43* | WG2302178 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.102 | | 0.0220 | 0.0488 | 1 | 06/05/2024 18:45 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 8.78 | | 0.664 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| Arsenic | 1.66 | J | 0.632 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| Barium | 257 | | 0.104 | 0.610 | 1 | 06/09/2024 08:41 | WG2299945 |
| Beryllium | 0.388 | | 0.0384 | 0.244 | 1 | 06/09/2024 08:41 | WG2299945 |
| Cadmium | 0.115 | J | 0.0574 | 0.610 | 1 | 06/09/2024 08:41 | WG2299945 |
| Chromium | 63.0 | | 0.162 | 1.22 | 1 | 06/09/2024 08:41 | WG2299945 |
| Cobalt | 13.8 | | 0.0989 | 1.22 | 1 | 06/09/2024 08:41 | WG2299945 |
| Copper | 28.8 | | 0.488 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| Lead | 35.6 | | 0.254 | 0.610 | 1 | 06/09/2024 08:41 | WG2299945 |
| Molybdenum | 0.227 | J | 0.133 | 0.610 | 1 | 06/09/2024 08:41 | WG2299945 |
| Nickel | 61.5 | | 0.161 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| Selenium | U | | 0.932 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| Silver | 0.607 | B J | 0.155 | 1.22 | 1 | 06/09/2024 08:41 | WG2299945 |
| Thallium | U | | 0.481 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| Vanadium | 57.7 | | 0.617 | 2.44 | 1 | 06/09/2024 08:41 | WG2299945 |
| Zinc | 86.5 | | 1.01 | 6.10 | 1 | 06/09/2024 08:41 | WG2299945 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0144 | 0.0415 | 1 | 06/13/2024 12:17 | WG2303247 |
| PCB 1221 | U | | 0.0144 | 0.0415 | 1 | 06/13/2024 12:17 | WG2303247 |
| PCB 1232 | U | | 0.0144 | 0.0415 | 1 | 06/13/2024 12:17 | WG2303247 |
| PCB 1242 | U | | 0.0144 | 0.0415 | 1 | 06/13/2024 12:17 | WG2303247 |
| PCB 1248 | U | | 0.00900 | 0.0207 | 1 | 06/13/2024 12:17 | WG2303247 |
| PCB 1254 | U | | 0.00900 | 0.0207 | 1 | 06/13/2024 12:17 | WG2303247 |
| PCB 1260 | U | | 0.00900 | 0.0207 | 1 | 06/13/2024 12:17 | WG2303247 |
| *(S) Decachlorobiphenyl* | *45.3* | | | *10.0-135* | | *06/13/2024 12:17* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *52.9* | | | *10.0-139* | | *06/13/2024 12:17* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0132 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Acenaphthylene | U | | 0.0114 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Anthracene | U | | 0.0145 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Benzidine | U | | 0.152 | 4.07 | 2 | 06/11/2024 04:41 | WG2301591 |
| Benzo(a)anthracene | U | | 0.0143 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Benzo(b)fluoranthene | 0.0170 | J | 0.0151 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Benzo(k)fluoranthene | U | | 0.0144 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Benzo(g,h,i)perylene | U | | 0.0149 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Benzo(a)pyrene | U | | 0.0151 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0244 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0268 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0351 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0285 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0143 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0283 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Chrysene | U | | 0.0161 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.0226 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0240 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0246 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0241 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0300 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0233 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0266 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Fluoranthene | 0.0178 | J | 0.0146 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Fluorene | U | | 0.0132 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Hexachlorobenzene | U | | 0.0288 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0273 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0427 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Hexachloroethane | U | | 0.0320 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0229 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Isophorone | U | | 0.0249 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Naphthalene | U | | 0.0204 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Nitrobenzene | U | | 0.0283 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.121 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0615 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0271 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Phenanthrene | 0.0309 | J | 0.0161 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0254 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.103 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0278 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Diethyl phthalate | U | | 0.0268 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Dimethyl phthalate | U | | 0.172 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0549 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Pyrene | 0.0254 | J | 0.0159 | 0.0812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0254 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0263 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2-Chlorophenol | U | | 0.0268 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0237 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0212 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.184 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.190 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2-Nitrophenol | U | | 0.0290 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 4-Nitrophenol | U | | 0.0254 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Pentachlorophenol | U | | 0.0218 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| Phenol | U | | 0.0327 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0261 | 0.812 | 2 | 06/11/2024 04:41 | WG2301591 |
| *(S) 2-Fluorophenol* | *64.5* | | | *12.0-120* | | *06/11/2024 04:41* | WG2301591 |
| *(S) Phenol-d5* | *57.4* | | | *10.0-120* | | *06/11/2024 04:41* | WG2301591 |
| *(S) Nitrobenzene-d5* | *57.5* | | | *10.0-122* | | *06/11/2024 04:41* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *62.5* | | | *15.0-120* | | *06/11/2024 04:41* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *44.7* | | | *10.0-127* | | *06/11/2024 04:41* | WG2301591 |
| *(S) p-Terphenyl-d14* | *62.2* | | | *10.0-120* | | *06/11/2024 04:41* | WG2301591 |

**Sample Narrative:**

L1741921-18 WG2301591: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.3 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.118 | | 0.0206 | 0.0458 | 1 | 06/05/2024 18:47 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 10.4 | | 0.623 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| Arsenic | 1.21 | J | 0.593 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| Barium | 200 | | 0.0976 | 0.572 | 1 | 06/09/2024 08:42 | WG2299945 |
| Beryllium | 0.348 | | 0.0361 | 0.229 | 1 | 06/09/2024 08:42 | WG2299945 |
| Cadmium | 0.310 | J | 0.0539 | 0.572 | 1 | 06/09/2024 08:42 | WG2299945 |
| Chromium | 51.1 | | 0.152 | 1.14 | 1 | 06/09/2024 08:42 | WG2299945 |
| Cobalt | 11.3 | | 0.0929 | 1.14 | 1 | 06/09/2024 08:42 | WG2299945 |
| Copper | 33.4 | | 0.458 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| Lead | 64.0 | | 0.238 | 0.572 | 1 | 06/09/2024 08:42 | WG2299945 |
| Molybdenum | 0.399 | J | 0.125 | 0.572 | 1 | 06/09/2024 08:42 | WG2299945 |
| Nickel | 43.1 | | 0.151 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| Selenium | U | | 0.875 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| Silver | 0.300 | B J | 0.145 | 1.14 | 1 | 06/09/2024 08:42 | WG2299945 |
| Thallium | U | | 0.451 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| Vanadium | 57.2 | | 0.579 | 2.29 | 1 | 06/09/2024 08:42 | WG2299945 |
| Zinc | 110 | | 0.953 | 5.72 | 1 | 06/09/2024 08:42 | WG2299945 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0485 | 0.0664 | 1 | 06/11/2024 14:38 | WG2302420 |
| Acrylonitrile | U | | 0.00480 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| Benzene | 0.00115 | J | 0.000620 | 0.00133 | 1 | 06/11/2024 14:38 | WG2302420 |
| Bromobenzene | U | | 0.00120 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| Bromodichloromethane | U | | 0.000963 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Bromoform | U | | 0.00155 | 0.0332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Bromomethane | U | | 0.00262 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| n-Butylbenzene | U | | 0.00698 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| sec-Butylbenzene | U | | 0.00383 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| tert-Butylbenzene | U | | 0.00259 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| Carbon tetrachloride | U | | 0.00119 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| Chlorobenzene | U | | 0.000279 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Chlorodibromomethane | U | | 0.000813 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Chloroethane | U | | 0.00226 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| Chloroform | U | | 0.00137 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Chloromethane | U | | 0.00578 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| 2-Chlorotoluene | U | | 0.00115 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 4-Chlorotoluene | U | | 0.000598 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00518 | 0.0332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2-Dibromoethane | U | | 0.000861 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Dibromomethane | U | | 0.000997 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2-Dichlorobenzene | U | | 0.000565 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,3-Dichlorobenzene | U | | 0.000797 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,4-Dichlorobenzene | U | | 0.000930 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00214 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,1-Dichloroethane | U | | 0.000652 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2-Dichloroethane | U | | 0.000862 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,1-Dichloroethene | U | | 0.000805 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| cis-1,2-Dichloroethene | U | | 0.000975 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| trans-1,2-Dichloroethene | U | | 0.00138 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2-Dichloropropane | U | | 0.00189 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,1-Dichloropropene | U | | 0.00107 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,3-Dichloropropane | U | | 0.000666 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| cis-1,3-Dichloropropene | U | | 0.00101 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| trans-1,3-Dichloropropene | U | | 0.00151 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 2,2-Dichloropropane | U | | 0.00183 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Di-isopropyl ether | U | | 0.000545 | 0.00133 | 1 | 06/11/2024 14:38 | WG2302420 |
| Ethylbenzene | U | | 0.000979 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Hexachloro-1,3-butadiene | U | | 0.00797 | 0.0332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Isopropylbenzene | U | | 0.000565 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| p-Isopropyltoluene | U | | 0.00339 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 2-Butanone (MEK) | U | | 0.0844 | 0.133 | 1 | 06/11/2024 14:38 | WG2302420 |
| Methylene Chloride | U | | 0.00882 | 0.0332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00303 | 0.0332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Methyl tert-butyl ether | U | | 0.000465 | 0.00133 | 1 | 06/11/2024 14:38 | WG2302420 |
| Naphthalene | U | | 0.00648 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| n-Propylbenzene | U | | 0.00126 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| Styrene | U | | 0.000304 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00126 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000923 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00100 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Tetrachloroethene | U | | 0.00119 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Toluene | U | | 0.00173 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2,3-Trichlorobenzene | U | | 0.00974 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2,4-Trichlorobenzene | U | | 0.00585 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,1,1-Trichloroethane | U | | 0.00123 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,1,2-Trichloroethane | U | | 0.000793 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Trichloroethene | U | | 0.000776 | 0.00133 | 1 | 06/11/2024 14:38 | WG2302420 |
| Trichlorofluoromethane | U | | 0.00110 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2,3-Trichloropropane | U | | 0.00215 | 0.0166 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2,4-Trimethylbenzene | 0.00369 | J | 0.00210 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,2,3-Trimethylbenzene | 0.00244 | J | 0.00210 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| 1,3,5-Trimethylbenzene | U | | 0.00266 | 0.00664 | 1 | 06/11/2024 14:38 | WG2302420 |
| Vinyl chloride | U | | 0.00154 | 0.00332 | 1 | 06/11/2024 14:38 | WG2302420 |
| Xylenes, Total | 0.00480 | J | 0.00117 | 0.00864 | 1 | 06/11/2024 14:38 | WG2302420 |
| *(S) Toluene-d8* | *92.9* | | | *75.0-131* | | *06/11/2024 14:38* | WG2302420 |
| *(S) 4-Bromofluorobenzene* | *94.4* | | | *67.0-138* | | *06/11/2024 14:38* | WG2302420 |
| *(S) 1,2-Dichloroethane-d4* | *82.6* | | | *70.0-130* | | *06/11/2024 14:38* | WG2302420 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0124 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Acenaphthylene | U | | 0.0107 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Anthracene | U | | 0.0136 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Benzidine | U | | 0.143 | 3.82 | 2 | 06/11/2024 11:54 | WG2301591 |
| Benzo(a)anthracene | 0.0271 | J | 0.0134 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Benzo(b)fluoranthene | 0.0540 | J | 0.0142 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Benzo(k)fluoranthene | U | | 0.0135 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Benzo(g,h,i)perylene | U | | 0.0140 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.0269 | J | 0.0142 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0229 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0252 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0330 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0268 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0134 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0266 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Chrysene | 0.0242 | J | 0.0151 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.0212 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0226 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0231 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0227 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0282 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0219 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0250 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Fluoranthene | 0.0461 | J | 0.0137 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Fluorene | U | | 0.0124 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Hexachlorobenzene | U | | 0.0270 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0256 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0401 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Hexachloroethane | U | | 0.0300 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0215 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Isophorone | U | | 0.0234 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Naphthalene | U | | 0.0191 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Nitrobenzene | U | | 0.0266 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.113 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0577 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0254 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Phenanthrene | 0.0215 | J | 0.0151 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0238 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0966 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0261 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Diethyl phthalate | U | | 0.0252 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Dimethyl phthalate | U | | 0.161 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0515 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Pyrene | 0.0643 | J | 0.0149 | 0.0763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0238 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.0247 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2-Chlorophenol | U | | 0.0252 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0222 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0199 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.173 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.179 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2-Nitrophenol | U | | 0.0273 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 4-Nitrophenol | U | | 0.0238 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Pentachlorophenol | U | | 0.0205 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| Phenol | U | | 0.0307 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0245 | 0.763 | 2 | 06/11/2024 11:54 | WG2301591 |
| *(S) 2-Fluorophenol* | *61.7* | | | *12.0-120* | | *06/11/2024 11:54* | WG2301591 |
| *(S) Phenol-d5* | *58.2* | | | *10.0-120* | | *06/11/2024 11:54* | WG2301591 |
| *(S) Nitrobenzene-d5* | *52.1* | | | *10.0-122* | | *06/11/2024 11:54* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *60.6* | | | *15.0-120* | | *06/11/2024 11:54* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *74.6* | | | *10.0-127* | | *06/11/2024 11:54* | WG2301591 |
| *(S) p-Terphenyl-d14* | *71.3* | | | *10.0-120* | | *06/11/2024 11:54* | WG2301591 |

**Sample Narrative:**

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1741921-19 WG2301591: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 73.8 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.197 | | 0.0244 | 0.0542 | 1 | 06/05/2024 18:50 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 7.93 | J6 | 0.737 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| Arsenic | U | | 0.702 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| Barium | 376 | J5 | 0.115 | 0.677 | 1 | 06/09/2024 08:24 | WG2299945 |
| Beryllium | 0.856 | | 0.0427 | 0.271 | 1 | 06/09/2024 08:24 | WG2299945 |
| Cadmium | 0.174 | J | 0.0638 | 0.677 | 1 | 06/09/2024 08:24 | WG2299945 |
| Chromium | 89.0 | | 0.180 | 1.35 | 1 | 06/09/2024 08:24 | WG2299945 |
| Cobalt | 15.3 | | 0.110 | 1.35 | 1 | 06/09/2024 08:24 | WG2299945 |
| Copper | 44.2 | | 0.542 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| Lead | 48.7 | J3 J5 | 0.282 | 0.677 | 1 | 06/09/2024 08:24 | WG2299945 |
| Molybdenum | 1.55 | | 0.148 | 0.677 | 1 | 06/09/2024 08:24 | WG2299945 |
| Nickel | 77.6 | | 0.179 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| Selenium | U | | 1.04 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| Silver | 0.273 | B J | 0.172 | 1.35 | 1 | 06/09/2024 08:24 | WG2299945 |
| Thallium | U | | 0.534 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| Vanadium | 82.2 | | 0.686 | 2.71 | 1 | 06/09/2024 08:24 | WG2299945 |
| Zinc | 113 | J3 J5 | 1.13 | 6.77 | 1 | 06/09/2024 08:24 | WG2299945 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.75 | J | 1.44 | 4.33 | 25 | 06/05/2024 23:08 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/05/2024 23:08* | WG2299409 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 3.17 | J | 0.993 | 5.42 | 1 | 06/11/2024 18:47 | WG2302178 |
| C22-C32 Hydrocarbons | 13.2 | | 1.80 | 5.42 | 1 | 06/11/2024 18:47 | WG2302178 |
| C32-C40 Hydrocarbons | 11.4 | | 1.80 | 5.42 | 1 | 06/11/2024 18:47 | WG2302178 |
| *(S) o-Terphenyl* | *49.8* | | | *18.0-148* | | *06/11/2024 18:47* | WG2302178 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.00730 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Acenaphthylene | U | | 0.00635 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Anthracene | U | | 0.00804 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Benzidine | U | | 0.0848 | 2.26 | 1 | 06/12/2024 03:47 | WG2302475 |
| Benzo(a)anthracene | U | | 0.00795 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Benzo(b)fluoranthene | U | | 0.00841 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Benzo(k)fluoranthene | U | | 0.00802 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Benzo(g,h,i)perylene | U | | 0.00825 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Benzo(a)pyrene | U | | 0.00839 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0135 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.0149 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0195 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.0159 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.00793 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.0157 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Chrysene | U | | 0.00897 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.0125 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.0134 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.0137 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.0134 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.0167 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.0129 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.0148 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Fluoranthene | 0.0196 | J | 0.00814 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Fluorene | U | | 0.00734 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Hexachlorobenzene | U | | 0.0160 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.0152 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.0237 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Hexachloroethane | U | | 0.0178 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0128 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Isophorone | U | | 0.0138 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Naphthalene | 0.0135 | J | 0.0113 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Nitrobenzene | U | | 0.0157 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.0669 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.0341 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.0150 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Phenanthrene | 0.0130 | J | 0.00896 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.0141 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0572 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.0154 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Diethyl phthalate | U | | 0.0149 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Dimethyl phthalate | U | | 0.0957 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.0305 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Pyrene | 0.0114 | J | 0.00878 | 0.0451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.0141 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.0146 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2-Chlorophenol | U | | 0.0149 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.0131 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.0118 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.102 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.106 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2-Nitrophenol | U | | 0.0161 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 4-Nitrophenol | U | | 0.0141 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Pentachlorophenol | U | | 0.0121 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| Phenol | U | | 0.0182 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.0145 | 0.451 | 1 | 06/12/2024 03:47 | WG2302475 |
| *(S) 2-Fluorophenol* | *62.6* | | | *12.0-120* | | *06/12/2024 03:47* | WG2302475 |
| *(S) Phenol-d5* | *58.8* | | | *10.0-120* | | *06/12/2024 03:47* | WG2302475 |
| *(S) Nitrobenzene-d5* | *60.7* | | | *10.0-122* | | *06/12/2024 03:47* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *56.2* | | | *15.0-120* | | *06/12/2024 03:47* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *59.9* | | | *10.0-127* | | *06/12/2024 03:47* | WG2302475 |
| *(S) p-Terphenyl-d14* | *63.3* | | | *10.0-120* | | *06/12/2024 03:47* | WG2302475 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.3 | | 1 | 06/13/2024 07:36 | WG2304167 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 6.15 | B | 1.43 | 4.30 | 25 | 06/13/2024 10:50 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.4* | | | *77.0-120* | | *06/13/2024 10:50* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0627 | 0.0859 | 1 | 06/13/2024 02:18 | WG2304049 |
| Acrylonitrile | U | | 0.00621 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| Benzene | U | | 0.000803 | 0.00172 | 1 | 06/13/2024 02:18 | WG2304049 |
| Bromobenzene | U | | 0.00155 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| Bromodichloromethane | U | | 0.00125 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Bromoform | U | | 0.00201 | 0.0430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Bromomethane | U | | 0.00339 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| n-Butylbenzene | U | | 0.00902 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| sec-Butylbenzene | U | | 0.00495 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| tert-Butylbenzene | U | | 0.00335 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| Carbon tetrachloride | U | | 0.00154 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| Chlorobenzene | U | | 0.000361 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Chlorodibromomethane | U | | 0.00105 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Chloroethane | U | | 0.00292 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| Chloroform | U | | 0.00177 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Chloromethane | U | | 0.00748 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00149 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000773 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00670 | 0.0430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.00111 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Dibromomethane | U | | 0.00129 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000731 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.00103 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00120 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00277 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,1-Dichloroethane | 0.00234 | J | 0.000844 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.00112 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.00104 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00126 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00179 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00244 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00139 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000861 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00130 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00196 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00237 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Di-isopropyl ether | U | | 0.000705 | 0.00172 | 1 | 06/13/2024 02:18 | WG2304049 |
| Ethylbenzene | U | | 0.00127 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.0103 | 0.0430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Isopropylbenzene | U | | 0.000731 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00438 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.109 | 0.172 | 1 | 06/13/2024 02:18 | WG2304049 |
| Methylene Chloride | U | | 0.0114 | 0.0430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00392 | 0.0430 | 1 | 06/13/2024 02:18 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000602 | 0.00172 | 1 | 06/13/2024 02:18 | WG2304049 |
| Naphthalene | U | J3 | 0.00839 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| n-Propylbenzene | U | | 0.00163 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| Styrene | U | | 0.000394 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00163 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00119 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00130 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Tetrachloroethene | U | | 0.00154 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Toluene | U | | 0.00223 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0126 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00756 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,1,1-Trichloroethane | 0.00203 | J | 0.00159 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.00103 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Trichloroethene | 0.00170 | J | 0.00100 | 0.00172 | 1 | 06/13/2024 02:18 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00142 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00278 | 0.0215 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00272 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00272 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00344 | 0.00859 | 1 | 06/13/2024 02:18 | WG2304049 |
| Vinyl chloride | U | | 0.00199 | 0.00430 | 1 | 06/13/2024 02:18 | WG2304049 |
| Xylenes, Total | U | | 0.00151 | 0.0112 | 1 | 06/13/2024 02:18 | WG2304049 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/13/2024 02:18* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/13/2024 02:18* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *85.9* | | | *70.0-130* | | *06/13/2024 02:18* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.30 | J | 0.974 | 5.31 | 1 | 06/14/2024 03:42 | WG2304127 |
| C22-C32 Hydrocarbons | 3.81 | J | 1.77 | 5.31 | 1 | 06/14/2024 03:42 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.77 | 5.31 | 1 | 06/14/2024 03:42 | WG2304127 |
| *(S) o-Terphenyl* | *53.0* | | | *18.0-148* | | *06/14/2024 03:42* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0143 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Acenaphthylene | U | | 0.0125 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Anthracene | U | | 0.0158 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Benzidine | U | | 0.166 | 4.44 | 2 | 06/13/2024 23:53 | WG2304128 |
| Benzo(a)anthracene | U | | 0.0155 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Benzo(b)fluoranthene | U | | 0.0165 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.0157 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.0162 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Benzo(a)pyrene | U | | 0.0165 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0266 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0292 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0383 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0311 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.0155 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0308 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Chrysene | U | | 0.0175 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0246 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0262 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0268 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0263 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0327 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0254 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0290 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Fluoranthene | U | | 0.0159 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Fluorene | U | | 0.0143 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Hexachlorobenzene | U | | 0.0314 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0298 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0465 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Hexachloroethane | U | | 0.0348 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0250 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Isophorone | U | | 0.0271 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Naphthalene | U | | 0.0222 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Nitrobenzene | U | | 0.0308 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.131 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0670 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0295 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Phenanthrene | U | | 0.0175 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0276 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.112 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0303 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Diethyl phthalate | U | | 0.0292 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Dimethyl phthalate | U | | 0.187 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0598 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Pyrene | U | | 0.0173 | 0.0885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0276 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0287 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2-Chlorophenol | U | | 0.0292 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0258 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0231 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.201 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.207 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2-Nitrophenol | U | | 0.0316 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 4-Nitrophenol | U | | 0.0276 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Pentachlorophenol | U | | 0.0238 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| Phenol | U | | 0.0356 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0284 | 0.885 | 2 | 06/13/2024 23:53 | WG2304128 |
| *(S) 2-Fluorophenol* | *57.9* | | | *12.0-120* | | *06/13/2024 23:53* | WG2304128 |
| *(S) Phenol-d5* | *55.4* | | | *10.0-120* | | *06/13/2024 23:53* | WG2304128 |
| *(S) Nitrobenzene-d5* | *52.1* | | | *10.0-122* | | *06/13/2024 23:53* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *63.3* | | | *15.0-120* | | *06/13/2024 23:53* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *49.2* | | | *10.0-127* | | *06/13/2024 23:53* | WG2304128 |
| *(S) p-Terphenyl-d14* | *66.9* | | | *10.0-120* | | *06/13/2024 23:53* | WG2304128 |

**Sample Narrative:**

L1741921-21 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.9 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 7.13 | | 1.33 | 4.01 | 25 | 06/05/2024 23:30 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/05/2024 23:30* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0585 | 0.0802 | 1 | 06/11/2024 20:26 | WG2303115 |
| Acrylonitrile | U | | 0.00579 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| Benzene | 0.000794 | J | 0.000749 | 0.00160 | 1 | 06/11/2024 20:26 | WG2303115 |
| Bromobenzene | U | | 0.00144 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| Bromodichloromethane | U | | 0.00116 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Bromoform | U | | 0.00188 | 0.0401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Bromomethane | U | | 0.00316 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| n-Butylbenzene | U | | 0.00842 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| sec-Butylbenzene | U | | 0.00462 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| tert-Butylbenzene | U | | 0.00313 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| Carbon tetrachloride | U | | 0.00144 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| Chlorobenzene | U | | 0.000337 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Chlorodibromomethane | U | | 0.000981 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Chloroethane | U | | 0.00273 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| Chloroform | U | | 0.00165 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Chloromethane | U | | 0.00697 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00139 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000721 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00625 | 0.0401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.00104 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Dibromomethane | U | | 0.00120 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000681 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000962 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.00112 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00258 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000787 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.00104 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000972 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.00118 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00167 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00228 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00130 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000803 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00121 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00183 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00221 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Di-isopropyl ether | U | | 0.000657 | 0.00160 | 1 | 06/11/2024 20:26 | WG2303115 |
| Ethylbenzene | 0.00135 | J | 0.00118 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00962 | 0.0401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Isopropylbenzene | 0.00274 | J | 0.000681 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| p-Isopropyltoluene | 0.00632 | J | 0.00409 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.102 | 0.160 | 1 | 06/11/2024 20:26 | WG2303115 |
| Methylene Chloride | U | | 0.0106 | 0.0401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00366 | 0.0401 | 1 | 06/11/2024 20:26 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000561 | 0.00160 | 1 | 06/11/2024 20:26 | WG2303115 |
| Naphthalene | U | | 0.00782 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| n-Propylbenzene | U | | 0.00152 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| Styrene | U | | 0.000367 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00152 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00111 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00121 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Tetrachloroethene | U | | 0.00144 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Toluene | 0.00309 | J | 0.00208 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0118 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00705 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,1,1-Trichloroethane | U | | 0.00148 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000957 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Trichloroethene | U | | 0.000936 | 0.00160 | 1 | 06/11/2024 20:26 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00133 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00260 | 0.0200 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2,4-Trimethylbenzene | 0.0159 | | 0.00253 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,2,3-Trimethylbenzene | 0.00694 | J | 0.00253 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| 1,3,5-Trimethylbenzene | 0.0160 | | 0.00321 | 0.00802 | 1 | 06/11/2024 20:26 | WG2303115 |
| Vinyl chloride | U | | 0.00186 | 0.00401 | 1 | 06/11/2024 20:26 | WG2303115 |
| Xylenes, Total | 0.101 | | 0.00141 | 0.0104 | 1 | 06/11/2024 20:26 | WG2303115 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/11/2024 20:26* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/11/2024 20:26* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* | | *06/11/2024 20:26* | WG2303115 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.46 | J | 0.953 | 5.20 | 1 | 06/11/2024 13:00 | WG2302178 |
| C22-C32 Hydrocarbons | 2.59 | J | 1.73 | 5.20 | 1 | 06/11/2024 13:00 | WG2302178 |
| C32-C40 Hydrocarbons | 2.28 | J | 1.73 | 5.20 | 1 | 06/11/2024 13:00 | WG2302178 |
| *(S) o-Terphenyl* | *45.5* | | | *18.0-148* | | *06/11/2024 13:00* | WG2302178 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.4 | | 1 | 06/13/2024 07:36 | WG2304167 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 10.0 | B | 1.41 | 4.26 | 25 | 06/13/2024 11:09 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.1* | | | *77.0-120* | | *06/13/2024 11:09* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0622 | 0.0851 | 1 | 06/13/2024 02:38 | WG2304049 |
| Acrylonitrile | U | | 0.00615 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| Benzene | 0.000964 | J | 0.000795 | 0.00170 | 1 | 06/13/2024 02:38 | WG2304049 |
| Bromobenzene | U | | 0.00153 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| Bromodichloromethane | U | | 0.00123 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Bromoform | U | | 0.00199 | 0.0426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Bromomethane | U | | 0.00335 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| n-Butylbenzene | U | | 0.00894 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| sec-Butylbenzene | U | | 0.00490 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| tert-Butylbenzene | U | | 0.00332 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| Carbon tetrachloride | U | | 0.00153 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| Chlorobenzene | U | | 0.000358 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Chlorodibromomethane | U | | 0.00104 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Chloroethane | U | | 0.00289 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| Chloroform | U | | 0.00175 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Chloromethane | U | | 0.00741 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00147 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000766 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00664 | 0.0426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.00110 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Dibromomethane | U | | 0.00128 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000724 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.00102 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00119 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00274 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000836 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.00111 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.00103 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00125 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00177 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00242 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00138 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000853 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00129 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00194 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00235 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Di-isopropyl ether | U | | 0.000698 | 0.00170 | 1 | 06/13/2024 02:38 | WG2304049 |
| Ethylbenzene | U | | 0.00126 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.0102 | 0.0426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Isopropylbenzene | 0.00305 | J | 0.000724 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| p-Isopropyltoluene | 0.00877 | | 0.00434 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.108 | 0.170 | 1 | 06/13/2024 02:38 | WG2304049 |
| Methylene Chloride | U | | 0.0113 | 0.0426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | 0.00972 | J | 0.00388 | 0.0426 | 1 | 06/13/2024 02:38 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000596 | 0.00170 | 1 | 06/13/2024 02:38 | WG2304049 |
| Naphthalene | U | J3 | 0.00831 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| n-Propylbenzene | 0.00189 | J | 0.00162 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| Styrene | U | | 0.000390 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00161 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00118 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00128 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Tetrachloroethene | U | | 0.00153 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Toluene | U | | 0.00221 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0125 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00749 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00157 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.00102 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Trichloroethene | U | | 0.000994 | 0.00170 | 1 | 06/13/2024 02:38 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00141 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00276 | 0.0213 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2,4-Trimethylbenzene | 0.00797 | J | 0.00269 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,2,3-Trimethylbenzene | 0.00562 | J | 0.00269 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| 1,3,5-Trimethylbenzene | 0.0108 | | 0.00341 | 0.00851 | 1 | 06/13/2024 02:38 | WG2304049 |
| Vinyl chloride | U | | 0.00198 | 0.00426 | 1 | 06/13/2024 02:38 | WG2304049 |
| Xylenes, Total | 0.116 | | 0.00150 | 0.0111 | 1 | 06/13/2024 02:38 | WG2304049 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/13/2024 02:38* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/13/2024 02:38* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *77.1* | | | *70.0-130* | | *06/13/2024 02:38* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.959 | 5.23 | 1 | 06/14/2024 02:44 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.74 | 5.23 | 1 | 06/14/2024 02:44 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.74 | 5.23 | 1 | 06/14/2024 02:44 | WG2304127 |
| *(S) o-Terphenyl* | *55.9* | | | *18.0-148* | | *06/14/2024 02:44* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.141 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Acenaphthylene | U | | 0.123 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Anthracene | U | | 0.156 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Benzidine | U | | 1.64 | 43.7 | 20 | 06/14/2024 11:21 | WG2304128 |
| Benzo(a)anthracene | U | | 0.153 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Benzo(b)fluoranthene | 0.174 | J | 0.162 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.154 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.160 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Benzo(a)pyrene | U | | 0.162 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.262 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.288 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.377 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.306 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.153 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.304 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Chrysene | U | | 0.173 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.242 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.258 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.264 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.259 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.322 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.250 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.285 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Fluoranthene | U | | 0.157 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Fluorene | U | | 0.141 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Hexachlorobenzene | U | | 0.309 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.293 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.458 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Hexachloroethane | U | | 0.343 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.246 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Isophorone | U | | 0.267 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Naphthalene | U | | 0.219 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Nitrobenzene | U | | 0.304 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| n-Nitrosodimethylamine | U | | 1.29 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.660 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.291 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Phenanthrene | U | | 0.173 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.272 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 1.10 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.298 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Diethyl phthalate | U | | 0.288 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Dimethyl phthalate | U | | 1.85 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.589 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Pyrene | U | | 0.170 | 0.872 | 20 | 06/14/2024 11:21 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.272 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.283 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2-Chlorophenol | U | | 0.288 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.254 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.228 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 1.98 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2,4-Dinitrophenol | U | | 2.04 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2-Nitrophenol | U | | 0.311 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 4-Nitrophenol | U | | 0.272 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Pentachlorophenol | U | | 0.234 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| Phenol | U | | 0.351 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.280 | 8.72 | 20 | 06/14/2024 11:21 | WG2304128 |
| *(S) 2-Fluorophenol* | *83.9* | J7 | | *12.0-120* | | *06/14/2024 11:21* | WG2304128 |
| *(S) Phenol-d5* | *74.2* | J7 | | *10.0-120* | | *06/14/2024 11:21* | WG2304128 |
| *(S) Nitrobenzene-d5* | *62.7* | J7 | | *10.0-122* | | *06/14/2024 11:21* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *77.6* | J7 | | *15.0-120* | | *06/14/2024 11:21* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *76.7* | J7 | | *10.0-127* | | *06/14/2024 11:21* | WG2304128 |
| *(S) p-Terphenyl-d14* | *100* | J7 | | *10.0-120* | | *06/14/2024 11:21* | WG2304128 |

**Sample Narrative:**

L1741921-23 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.3 | | 1 | 06/03/2024 16:04 | WG2297630 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0546 | 0.0748 | 1 | 06/11/2024 20:44 | WG2303115 |
| Acrylonitrile | U | | 0.00540 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| Benzene | U | | 0.000698 | 0.00150 | 1 | 06/11/2024 20:44 | WG2303115 |
| Bromobenzene | U | | 0.00135 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| Bromodichloromethane | U | | 0.00108 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Bromoform | U | | 0.00175 | 0.0374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Bromomethane | U | | 0.00295 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| n-Butylbenzene | U | | 0.00785 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| sec-Butylbenzene | U | | 0.00431 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| tert-Butylbenzene | U | | 0.00292 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| Carbon tetrachloride | U | | 0.00134 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| Chlorobenzene | U | | 0.000314 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Chlorodibromomethane | U | | 0.000915 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Chloroethane | U | | 0.00254 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| Chloroform | U | | 0.00154 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Chloromethane | U | | 0.00650 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00129 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000673 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00583 | 0.0374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000969 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Dibromomethane | U | | 0.00112 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000635 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000897 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.00105 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00241 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000734 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000970 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000906 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.00110 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00155 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00212 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00121 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000749 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00113 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00170 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00206 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Di-isopropyl ether | U | | 0.000613 | 0.00150 | 1 | 06/11/2024 20:44 | WG2303115 |
| Ethylbenzene | U | | 0.00110 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00897 | 0.0374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Isopropylbenzene | U | | 0.000635 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00381 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0949 | 0.150 | 1 | 06/11/2024 20:44 | WG2303115 |
| Methylene Chloride | U | | 0.00993 | 0.0374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00341 | 0.0374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Methyl tert-butyl ether | U | | 0.000523 | 0.00150 | 1 | 06/11/2024 20:44 | WG2303115 |
| Naphthalene | U | | 0.00730 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| n-Propylbenzene | U | | 0.00142 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| Styrene | U | | 0.000342 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00142 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00104 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00113 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Tetrachloroethene | U | | 0.00134 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Toluene | U | | 0.00194 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0110 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00658 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,1,1-Trichloroethane | U | | 0.00138 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000893 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Trichloroethene | U | | 0.000873 | 0.00150 | 1 | 06/11/2024 20:44 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00124 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00242 | 0.0187 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00236 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00236 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00299 | 0.00748 | 1 | 06/11/2024 20:44 | WG2303115 |
| Vinyl chloride | U | | 0.00173 | 0.00374 | 1 | 06/11/2024 20:44 | WG2303115 |
| Xylenes, Total | U | | 0.00132 | 0.00972 | 1 | 06/11/2024 20:44 | WG2303115 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/11/2024 20:44* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *67.0-138* | | *06/11/2024 20:44* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* | | *06/11/2024 20:44* | WG2303115 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.0 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.232 | | 0.0207 | 0.0460 | 1 | 06/05/2024 18:52 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 8.60 | | 0.626 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| Arsenic | U | | 0.596 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| Barium | 315 | | 0.0980 | 0.575 | 1 | 06/09/2024 08:44 | WG2299945 |
| Beryllium | 0.258 | | 0.0362 | 0.230 | 1 | 06/09/2024 08:44 | WG2299945 |
| Cadmium | 1.13 | | 0.0542 | 0.575 | 1 | 06/09/2024 08:44 | WG2299945 |
| Chromium | 52.2 | | 0.153 | 1.15 | 1 | 06/09/2024 08:44 | WG2299945 |
| Cobalt | 15.7 | | 0.0933 | 1.15 | 1 | 06/09/2024 08:44 | WG2299945 |
| Copper | 54.1 | | 0.460 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| Lead | 217 | | 0.239 | 0.575 | 1 | 06/09/2024 08:44 | WG2299945 |
| Molybdenum | 1.25 | | 0.125 | 0.575 | 1 | 06/09/2024 08:44 | WG2299945 |
| Nickel | 64.7 | | 0.152 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| Selenium | U | | 0.879 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| Silver | 0.475 | B J | 0.146 | 1.15 | 1 | 06/09/2024 08:44 | WG2299945 |
| Thallium | U | | 0.453 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| Vanadium | 52.3 | | 0.582 | 2.30 | 1 | 06/09/2024 08:44 | WG2299945 |
| Zinc | 373 | | 0.957 | 5.75 | 1 | 06/09/2024 08:44 | WG2299945 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0136 | 0.0391 | 1 | 06/13/2024 12:26 | WG2303247 |
| PCB 1221 | U | | 0.0136 | 0.0391 | 1 | 06/13/2024 12:26 | WG2303247 |
| PCB 1232 | U | | 0.0136 | 0.0391 | 1 | 06/13/2024 12:26 | WG2303247 |
| PCB 1242 | U | | 0.0136 | 0.0391 | 1 | 06/13/2024 12:26 | WG2303247 |
| PCB 1248 | U | | 0.00849 | 0.0196 | 1 | 06/13/2024 12:26 | WG2303247 |
| PCB 1254 | U | | 0.00849 | 0.0196 | 1 | 06/13/2024 12:26 | WG2303247 |
| PCB 1260 | 0.0405 | | 0.00849 | 0.0196 | 1 | 06/19/2024 00:44 | WG2303247 |
| *(S) Decachlorobiphenyl* | *85.6* | | | *10.0-135* | | *06/19/2024 00:44* | WG2303247 |
| *(S) Decachlorobiphenyl* | *70.0* | | | *10.0-135* | | *06/13/2024 12:26* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *64.8* | | | *10.0-139* | | *06/13/2024 12:26* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *80.4* | | | *10.0-139* | | *06/19/2024 00:44* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0124 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Acenaphthylene | U | | 0.0108 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Anthracene | U | | 0.0137 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Benzidine | U | | 0.144 | 3.84 | 2 | 06/12/2024 04:27 | WG2302475 |
| Benzo(a)anthracene | U | | 0.0135 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Benzo(b)fluoranthene | 0.0175 | J | 0.0143 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Benzo(k)fluoranthene | U | | 0.0136 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Benzo(g,h,i)perylene | U | | 0.0140 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Benzo(a)pyrene | U | | 0.0143 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0230 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.0253 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0331 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.0269 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.0135 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.0267 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Chrysene | U | | 0.0152 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.0213 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.0227 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.0232 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.0228 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.0283 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.0220 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.0251 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Fluoranthene | 0.0170 | J | 0.0138 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Fluorene | U | | 0.0124 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Hexachlorobenzene | U | | 0.0271 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.0258 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.0403 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Hexachloroethane | U | | 0.0301 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0216 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Isophorone | U | | 0.0235 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Naphthalene | U | | 0.0192 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Nitrobenzene | U | | 0.0267 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.114 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.0580 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.0255 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Phenanthrene | U | | 0.0152 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.0239 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0971 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.0262 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Diethyl phthalate | U | | 0.0253 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Dimethyl phthalate | U | | 0.162 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.0518 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Pyrene | U | | 0.0150 | 0.0766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.0239 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.0248 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2-Chlorophenol | U | | 0.0253 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.0223 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.0200 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.174 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.179 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2-Nitrophenol | U | | 0.0274 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 4-Nitrophenol | U | | 0.0239 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Pentachlorophenol | U | | 0.0206 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| Phenol | U | | 0.0308 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.0246 | 0.766 | 2 | 06/12/2024 04:27 | WG2302475 |
| *(S) 2-Fluorophenol* | *70.6* | | | *12.0-120* | | *06/12/2024 04:27* | WG2302475 |
| *(S) Phenol-d5* | *66.7* | | | *10.0-120* | | *06/12/2024 04:27* | WG2302475 |
| *(S) Nitrobenzene-d5* | *68.1* | | | *10.0-122* | | *06/12/2024 04:27* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *59.9* | | | *15.0-120* | | *06/12/2024 04:27* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *64.8* | | | *10.0-127* | | *06/12/2024 04:27* | WG2302475 |
| *(S) p-Terphenyl-d14* | *67.5* | | | *10.0-120* | | *06/12/2024 04:27* | WG2302475 |

**Sample Narrative:**

L1741921-25 WG2302475: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.5 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.446 | | 0.0208 | 0.0462 | 1 | 06/05/2024 18:55 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 6.21 | | 0.629 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| Arsenic | U | | 0.599 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| Barium | 193 | | 0.0984 | 0.578 | 1 | 06/09/2024 08:46 | WG2299945 |
| Beryllium | 0.139 | J | 0.0364 | 0.231 | 1 | 06/09/2024 08:46 | WG2299945 |
| Cadmium | 1.20 | | 0.0544 | 0.578 | 1 | 06/09/2024 08:46 | WG2299945 |
| Chromium | 84.0 | | 0.154 | 1.16 | 1 | 06/09/2024 08:46 | WG2299945 |
| Cobalt | 26.3 | | 0.0937 | 1.16 | 1 | 06/09/2024 08:46 | WG2299945 |
| Copper | 101 | | 0.462 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| Lead | 207 | | 0.240 | 0.578 | 1 | 06/09/2024 08:46 | WG2299945 |
| Molybdenum | 0.533 | J | 0.126 | 0.578 | 1 | 06/09/2024 08:46 | WG2299945 |
| Nickel | 61.1 | | 0.153 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| Selenium | 1.21 | J | 0.883 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| Silver | 1.01 | B J | 0.147 | 1.16 | 1 | 06/09/2024 08:46 | WG2299945 |
| Thallium | U | | 0.455 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| Vanadium | 47.1 | | 0.585 | 2.31 | 1 | 06/09/2024 08:46 | WG2299945 |
| Zinc | 313 | | 0.961 | 5.78 | 1 | 06/09/2024 08:46 | WG2299945 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0479 | 0.0656 | 1 | 06/11/2024 21:03 | WG2303115 |
| Acrylonitrile | U | | 0.00473 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| Benzene | U | | 0.000612 | 0.00131 | 1 | 06/11/2024 21:03 | WG2303115 |
| Bromobenzene | U | | 0.00118 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| Bromodichloromethane | U | | 0.000950 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Bromoform | U | | 0.00153 | 0.0328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Bromomethane | U | | 0.00258 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| n-Butylbenzene | U | | 0.00688 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| sec-Butylbenzene | U | | 0.00378 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| tert-Butylbenzene | U | | 0.00256 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| Carbon tetrachloride | U | | 0.00118 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| Chlorobenzene | U | | 0.000275 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Chlorodibromomethane | U | | 0.000802 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Chloroethane | U | | 0.00223 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| Chloroform | U | | 0.00135 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Chloromethane | U | | 0.00570 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00113 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000590 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00511 | 0.0328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000850 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Dibromomethane | U | | 0.000983 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000557 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000787 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.000918 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00211 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000644 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000851 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000794 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.000962 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00136 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00186 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00106 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000657 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.000992 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00149 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00181 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Di-isopropyl ether | U | | 0.000538 | 0.00131 | 1 | 06/11/2024 21:03 | WG2303115 |
| Ethylbenzene | U | | 0.000966 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00787 | 0.0328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Isopropylbenzene | U | | 0.000557 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00334 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0832 | 0.131 | 1 | 06/11/2024 21:03 | WG2303115 |
| Methylene Chloride | U | | 0.00871 | 0.0328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00299 | 0.0328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Methyl tert-butyl ether | U | | 0.000459 | 0.00131 | 1 | 06/11/2024 21:03 | WG2303115 |
| Naphthalene | U | | 0.00640 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| n-Propylbenzene | U | | 0.00125 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| Styrene | U | | 0.000300 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00124 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000911 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000988 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Tetrachloroethene | U | | 0.00117 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Toluene | U | | 0.00170 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.00961 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00577 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,1,1-Trichloroethane | U | | 0.00121 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000783 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Trichloroethene | U | | 0.000766 | 0.00131 | 1 | 06/11/2024 21:03 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00108 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00212 | 0.0164 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00207 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00207 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00262 | 0.00656 | 1 | 06/11/2024 21:03 | WG2303115 |
| Vinyl chloride | U | | 0.00152 | 0.00328 | 1 | 06/11/2024 21:03 | WG2303115 |
| Xylenes, Total | U | | 0.00115 | 0.00852 | 1 | 06/11/2024 21:03 | WG2303115 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/11/2024 21:03* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/11/2024 21:03* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *108* | | | *70.0-130* | | *06/11/2024 21:03* | WG2303115 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0136 | 0.0393 | 1 | 07/01/2024 23:25 | WG2314791 |
| PCB 1221 | U | | 0.0136 | 0.0393 | 1 | 07/01/2024 23:25 | WG2314791 |
| PCB 1232 | U | | 0.0136 | 0.0393 | 1 | 07/01/2024 23:25 | WG2314791 |
| PCB 1242 | U | | 0.0136 | 0.0393 | 1 | 07/01/2024 23:25 | WG2314791 |
| PCB 1248 | U | | 0.00853 | 0.0196 | 1 | 07/01/2024 23:25 | WG2314791 |
| PCB 1254 | U | | 0.00853 | 0.0196 | 1 | 07/01/2024 23:25 | WG2314791 |
| PCB 1260 | U | | 0.00853 | 0.0196 | 1 | 07/01/2024 23:25 | WG2314791 |
| *(S) Decachlorobiphenyl* | *59.5* | | | *10.0-135* | | *07/01/2024 23:25* | WG2314791 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *82.7* | | | *10.0-139* | | *07/01/2024 23:25* | WG2314791 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0125 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Acenaphthylene | U | | 0.0108 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Anthracene | U | | 0.0138 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Benzidine | U | | 0.144 | 3.86 | 2 | 06/12/2024 04:47 | WG2302475 |
| Benzo(a)anthracene | 0.0258 | J | 0.0135 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Benzo(b)fluoranthene | 0.0433 | J | 0.0143 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Benzo(k)fluoranthene | U | | 0.0136 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Benzo(g,h,i)perylene | 0.0311 | J | 0.0141 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Benzo(a)pyrene | 0.0374 | J | 0.0143 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Bis(2-chlorethoxy)methane | U | | 0.0231 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.0254 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0333 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.0270 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.0135 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.0268 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Chrysene | 0.0232 | J | 0.0153 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.0214 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.0228 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.0233 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.0229 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.0284 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.0221 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.0252 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Fluoranthene | 0.0366 | J | 0.0139 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Fluorene | U | | 0.0125 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Hexachlorobenzene | U | | 0.0273 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.0259 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.0404 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Hexachloroethane | U | | 0.0303 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | 0.0269 | J | 0.0217 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Isophorone | U | | 0.0236 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Naphthalene | U | | 0.0193 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Nitrobenzene | U | | 0.0268 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.114 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.0582 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.0257 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Phenanthrene | 0.0201 | J | 0.0153 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.0240 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0975 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Di-n-butyl phthalate | 0.0335 | J | 0.0263 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Diethyl phthalate | U | | 0.0254 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Dimethyl phthalate | U | | 0.163 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.0520 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Pyrene | 0.0389 | J | 0.0150 | 0.0770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.0240 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.0250 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2-Chlorophenol | U | | 0.0254 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.0224 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.0201 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.174 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.180 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0275 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 4-Nitrophenol | U | | 0.0240 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Pentachlorophenol | U | | 0.0207 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| Phenol | U | | 0.0310 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.0247 | 0.770 | 2 | 06/12/2024 04:47 | WG2302475 |
| *(S) 2-Fluorophenol* | *67.9* | | | *12.0-120* | | *06/12/2024 04:47* | WG2302475 |
| *(S) Phenol-d5* | *65.6* | | | *10.0-120* | | *06/12/2024 04:47* | WG2302475 |
| *(S) Nitrobenzene-d5* | *59.1* | | | *10.0-122* | | *06/12/2024 04:47* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *60.7* | | | *15.0-120* | | *06/12/2024 04:47* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *60.1* | | | *10.0-127* | | *06/12/2024 04:47* | WG2302475 |
| *(S) p-Terphenyl-d14* | *64.2* | | | *10.0-120* | | *06/12/2024 04:47* | WG2302475 |

**Sample Narrative:**

L1741921-26 WG2302475: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.138 | | 0.0209 | 0.0464 | 1 | 06/05/2024 19:02 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 6.81 | | 0.631 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| Arsenic | 4.88 | | 0.601 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| Barium | 214 | | 0.0988 | 0.580 | 1 | 06/09/2024 08:47 | WG2299945 |
| Beryllium | 0.413 | | 0.0365 | 0.232 | 1 | 06/09/2024 08:47 | WG2299945 |
| Cadmium | 0.515 | J | 0.0546 | 0.580 | 1 | 06/09/2024 08:47 | WG2299945 |
| Chromium | 79.0 | | 0.154 | 1.16 | 1 | 06/09/2024 08:47 | WG2299945 |
| Cobalt | 11.2 | | 0.0940 | 1.16 | 1 | 06/09/2024 08:47 | WG2299945 |
| Copper | 35.8 | | 0.464 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| Lead | 109 | | 0.241 | 0.580 | 1 | 06/09/2024 08:47 | WG2299945 |
| Molybdenum | 0.892 | | 0.126 | 0.580 | 1 | 06/09/2024 08:47 | WG2299945 |
| Nickel | 57.5 | | 0.153 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| Selenium | U | | 0.886 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| Silver | 0.238 | B J | 0.147 | 1.16 | 1 | 06/09/2024 08:47 | WG2299945 |
| Thallium | U | | 0.457 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| Vanadium | 47.3 | | 0.587 | 2.32 | 1 | 06/09/2024 08:47 | WG2299945 |
| Zinc | 210 | | 0.965 | 5.80 | 1 | 06/09/2024 08:47 | WG2299945 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.12 | 3.39 | 25 | 06/05/2024 23:51 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/05/2024 23:51* | WG2299409 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 5.86 | J | 1.70 | 9.28 | 2 | 06/11/2024 22:59 | WG2302178 |
| C22-C32 Hydrocarbons | 47.0 | | 3.08 | 9.28 | 2 | 06/11/2024 22:59 | WG2302178 |
| C32-C40 Hydrocarbons | 33.5 | | 3.08 | 9.28 | 2 | 06/11/2024 22:59 | WG2302178 |
| *(S) o-Terphenyl* | *56.8* | | | *18.0-148* | | *06/11/2024 22:59* | WG2302178 |

**Sample Narrative:**

L1741921-27 WG2302178: Dilution due to matrix impact during extraction procedure

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0125 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Acenaphthylene | U | | 0.0109 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Anthracene | U | | 0.0138 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Benzidine | U | | 0.145 | 3.87 | 2 | 06/12/2024 05:08 | WG2302475 |
| Benzo(a)anthracene | U | | 0.0136 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Benzo(b)fluoranthene | U | | 0.0144 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(k)fluoranthene | U | | 0.0137 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Benzo(g,h,i)perylene | U | | 0.0141 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Benzo(a)pyrene | U | | 0.0144 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Bis(2-chlorethoxy)methane | U | | 0.0232 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.0255 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0334 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.0271 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.0136 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.0269 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Chrysene | U | | 0.0153 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.0215 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.0228 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.0234 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.0230 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.0285 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.0221 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.0253 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Fluoranthene | U | | 0.0139 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Fluorene | U | | 0.0125 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Hexachlorobenzene | U | | 0.0274 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.0260 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.0406 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Hexachloroethane | U | | 0.0304 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0218 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Isophorone | U | | 0.0237 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Naphthalene | U | | 0.0194 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Nitrobenzene | U | | 0.0269 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.115 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.0584 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.0257 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Phenanthrene | U | | 0.0153 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.0241 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0979 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.0264 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Diethyl phthalate | U | | 0.0255 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Dimethyl phthalate | U | | 0.163 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.0522 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Pyrene | U | | 0.0151 | 0.0772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.0241 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.0250 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2-Chlorophenol | U | | 0.0255 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.0225 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.0202 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.175 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.181 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2-Nitrophenol | U | | 0.0276 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 4-Nitrophenol | U | | 0.0241 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Pentachlorophenol | U | | 0.0208 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| Phenol | U | | 0.0311 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.0248 | 0.772 | 2 | 06/12/2024 05:08 | WG2302475 |
| *(S) 2-Fluorophenol* | *71.1* | | | *12.0-120* | | *06/12/2024 05:08* | WG2302475 |
| *(S) Phenol-d5* | *67.9* | | | *10.0-120* | | *06/12/2024 05:08* | WG2302475 |
| *(S) Nitrobenzene-d5* | *64.3* | | | *10.0-122* | | *06/12/2024 05:08* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *64.6* | | | *15.0-120* | | *06/12/2024 05:08* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *64.6* | | | *10.0-127* | | *06/12/2024 05:08* | WG2302475 |
| *(S) p-Terphenyl-d14* | *66.5* | | | *10.0-120* | | *06/12/2024 05:08* | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

**Sample Narrative:**

L1741921-27 WG2302475: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.5 | | 1 | 06/13/2024 07:36 | WG2304167 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.49 | B J | 1.28 | 3.84 | 25 | 06/13/2024 11:29 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.1* | | | *77.0-120* | | *06/13/2024 11:29* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0561 | 0.0768 | 1 | 06/13/2024 02:58 | WG2304049 |
| Acrylonitrile | U | | 0.00555 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| Benzene | U | | 0.000717 | 0.00154 | 1 | 06/13/2024 02:58 | WG2304049 |
| Bromobenzene | U | | 0.00138 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| Bromodichloromethane | U | | 0.00111 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Bromoform | U | | 0.00180 | 0.0384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Bromomethane | U | | 0.00303 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| n-Butylbenzene | U | | 0.00807 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| sec-Butylbenzene | U | | 0.00442 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| tert-Butylbenzene | U | | 0.00300 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| Carbon tetrachloride | U | | 0.00138 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| Chlorobenzene | U | | 0.000323 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Chlorodibromomethane | U | | 0.000940 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Chloroethane | U | | 0.00261 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| Chloroform | U | | 0.00158 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Chloromethane | U | | 0.00668 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00133 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000691 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00599 | 0.0384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.000996 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Dibromomethane | U | | 0.00115 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000653 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.000922 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00108 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00247 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000754 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.000997 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.000931 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00113 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00160 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00218 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00124 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000770 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00116 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00175 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00212 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Di-isopropyl ether | U | | 0.000630 | 0.00154 | 1 | 06/13/2024 02:58 | WG2304049 |
| Ethylbenzene | U | | 0.00113 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.00922 | 0.0384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Isopropylbenzene | U | | 0.000653 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00392 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.0976 | 0.154 | 1 | 06/13/2024 02:58 | WG2304049 |
| Methylene Chloride | U | | 0.0102 | 0.0384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00350 | 0.0384 | 1 | 06/13/2024 02:58 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000538 | 0.00154 | 1 | 06/13/2024 02:58 | WG2304049 |
| Naphthalene | U | J3 | 0.00750 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| n-Propylbenzene | U | | 0.00146 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| Styrene | U | | 0.000352 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00146 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00107 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00116 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Tetrachloroethene | U | | 0.00138 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Toluene | U | | 0.00200 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0113 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00676 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00142 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.000917 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Trichloroethene | U | | 0.000897 | 0.00154 | 1 | 06/13/2024 02:58 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00127 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00249 | 0.0192 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00243 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00243 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00307 | 0.00768 | 1 | 06/13/2024 02:58 | WG2304049 |
| Vinyl chloride | U | | 0.00178 | 0.00384 | 1 | 06/13/2024 02:58 | WG2304049 |
| Xylenes, Total | 0.00217 | J | 0.00135 | 0.00999 | 1 | 06/13/2024 02:58 | WG2304049 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/13/2024 02:58* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/13/2024 02:58* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *83.4* | | | *70.0-130* | | *06/13/2024 02:58* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.910 | 4.97 | 1 | 06/14/2024 04:11 | WG2304127 |
| C22-C32 Hydrocarbons | 1.68 | J | 1.65 | 4.97 | 1 | 06/14/2024 04:11 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.65 | 4.97 | 1 | 06/14/2024 04:11 | WG2304127 |
| *(S) o-Terphenyl* | *70.6* | | | *18.0-148* | | *06/14/2024 04:11* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0669 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Acenaphthylene | U | | 0.0582 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Anthracene | U | | 0.0736 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Benzidine | U | | 0.777 | 20.7 | 10 | 06/14/2024 11:00 | WG2304128 |
| Benzo(a)anthracene | U | | 0.0729 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Benzo(b)fluoranthene | U | | 0.0771 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.0735 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.0756 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Benzo(a)pyrene | U | | 0.0769 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.124 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.137 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.179 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.145 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.0727 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.144 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Chrysene | U | | 0.0822 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.115 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.123 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.125 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.123 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.153 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.119 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.135 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Fluoranthene | U | | 0.0746 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Fluorene | U | | 0.0673 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Hexachlorobenzene | U | | 0.147 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.139 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.217 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Hexachloroethane | U | | 0.163 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.117 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Isophorone | U | | 0.127 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Naphthalene | U | | 0.104 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Nitrobenzene | U | | 0.144 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.614 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.313 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.138 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Phenanthrene | U | | 0.0821 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.129 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.524 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.142 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Diethyl phthalate | U | | 0.137 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Dimethyl phthalate | U | | 0.877 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.279 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Pyrene | U | | 0.0805 | 0.414 | 10 | 06/14/2024 11:00 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.129 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.134 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2-Chlorophenol | U | | 0.137 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.120 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.108 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.938 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.967 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2-Nitrophenol | U | | 0.148 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 4-Nitrophenol | U | | 0.129 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Pentachlorophenol | U | | 0.111 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| Phenol | U | | 0.166 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.133 | 4.14 | 10 | 06/14/2024 11:00 | WG2304128 |
| *(S) 2-Fluorophenol* | *63.9* | | | *12.0-120* | | *06/14/2024 11:00* | WG2304128 |
| *(S) Phenol-d5* | *61.6* | | | *10.0-120* | | *06/14/2024 11:00* | WG2304128 |
| *(S) Nitrobenzene-d5* | *52.3* | | | *10.0-122* | | *06/14/2024 11:00* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *65.3* | | | *15.0-120* | | *06/14/2024 11:00* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *70.9* | | | *10.0-127* | | *06/14/2024 11:00* | WG2304128 |
| *(S) p-Terphenyl-d14* | *72.4* | | | *10.0-120* | | *06/14/2024 11:00* | WG2304128 |

**Sample Narrative:**

L1741921-28 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.4 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.48 | J | 1.27 | 3.82 | 25 | 06/06/2024 00:13 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/06/2024 00:13* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0557 | 0.0764 | 1 | 06/11/2024 21:22 | WG2303115 |
| Acrylonitrile | U | | 0.00551 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| Benzene | U | | 0.000713 | 0.00153 | 1 | 06/11/2024 21:22 | WG2303115 |
| Bromobenzene | U | | 0.00137 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| Bromodichloromethane | U | | 0.00111 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Bromoform | U | | 0.00179 | 0.0382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Bromomethane | U | | 0.00301 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| n-Butylbenzene | U | | 0.00802 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| sec-Butylbenzene | U | | 0.00440 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| tert-Butylbenzene | U | | 0.00298 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| Carbon tetrachloride | U | | 0.00137 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| Chlorobenzene | U | | 0.000321 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Chlorodibromomethane | U | | 0.000935 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Chloroethane | U | | 0.00260 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| Chloroform | U | | 0.00157 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Chloromethane | U | | 0.00664 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000687 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00596 | 0.0382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000990 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Dibromomethane | U | | 0.00115 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000649 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000916 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00246 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000750 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000991 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000925 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00159 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00217 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00124 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000765 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00116 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00174 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00211 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Di-isopropyl ether | U | | 0.000626 | 0.00153 | 1 | 06/11/2024 21:22 | WG2303115 |
| Ethylbenzene | U | | 0.00113 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00916 | 0.0382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Isopropylbenzene | U | | 0.000649 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00389 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0970 | 0.153 | 1 | 06/11/2024 21:22 | WG2303115 |
| Methylene Chloride | U | | 0.0101 | 0.0382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00348 | 0.0382 | 1 | 06/11/2024 21:22 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000534 | 0.00153 | 1 | 06/11/2024 21:22 | WG2303115 |
| Naphthalene | U | | 0.00745 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| n-Propylbenzene | U | | 0.00145 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| Styrene | U | | 0.000350 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00145 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00115 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Tetrachloroethene | U | | 0.00137 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Toluene | U | | 0.00199 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00672 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000912 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Trichloroethene | U | | 0.000892 | 0.00153 | 1 | 06/11/2024 21:22 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00247 | 0.0191 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00241 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00241 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00305 | 0.00764 | 1 | 06/11/2024 21:22 | WG2303115 |
| Vinyl chloride | U | | 0.00177 | 0.00382 | 1 | 06/11/2024 21:22 | WG2303115 |
| Xylenes, Total | U | | 0.00134 | 0.00993 | 1 | 06/11/2024 21:22 | WG2303115 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/11/2024 21:22* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/11/2024 21:22* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *109* | | | *70.0-130* | | *06/11/2024 21:22* | WG2303115 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 0.960 | J | 0.912 | 4.98 | 1 | 06/11/2024 14:55 | WG2302178 |
| C22-C32 Hydrocarbons | 2.25 | J | 1.65 | 4.98 | 1 | 06/11/2024 14:55 | WG2302178 |
| C32-C40 Hydrocarbons | 2.10 | J | 1.65 | 4.98 | 1 | 06/11/2024 14:55 | WG2302178 |
| *(S) o-Terphenyl* | *49.1* | | | *18.0-148* | | *06/11/2024 14:55* | WG2302178 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/06/2024 11:54 | WG2299510 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/06/2024 11:54 | WG2299510 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/06/2024 11:54 | WG2299510 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Chlorodibromomethane | U | J4 | 0.140 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/06/2024 11:54 | WG2299510 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/06/2024 11:54 | WG2299510 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/06/2024 11:54 | WG2299510 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/06/2024 11:54 | WG2299510 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *06/06/2024 11:54* | WG2299510 |
| *(S) 4-Bromofluorobenzene* | *94.9* | | | *77.0-126* | | *06/06/2024 11:54* | WG2299510 |
| *(S) 1,2-Dichloroethane-d4* | *108* | | | *70.0-130* | | *06/06/2024 11:54* | WG2299510 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 85.9 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.206 | | 0.0210 | 0.0466 | 1 | 06/05/2024 19:04 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 11.2 | | 0.633 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| Arsenic | 1.40 | J | 0.603 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| Barium | 219 | | 0.0992 | 0.582 | 1 | 06/09/2024 08:49 | WG2299945 |
| Beryllium | 0.337 | | 0.0367 | 0.233 | 1 | 06/09/2024 08:49 | WG2299945 |
| Cadmium | 5.90 | | 0.0548 | 0.582 | 1 | 06/09/2024 08:49 | WG2299945 |
| Chromium | 43.4 | | 0.155 | 1.16 | 1 | 06/09/2024 08:49 | WG2299945 |
| Cobalt | 15.3 | | 0.0944 | 1.16 | 1 | 06/09/2024 08:49 | WG2299945 |
| Copper | 78.8 | | 0.466 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| Lead | 743 | | 0.242 | 0.582 | 1 | 06/09/2024 08:49 | WG2299945 |
| Molybdenum | 12.6 | | 0.127 | 0.582 | 1 | 06/09/2024 08:49 | WG2299945 |
| Nickel | 61.1 | | 0.154 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| Selenium | U | | 0.889 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| Silver | 1.37 | B | 0.148 | 1.16 | 1 | 06/09/2024 08:49 | WG2299945 |
| Thallium | U | | 0.459 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| Vanadium | 62.0 | | 0.589 | 2.33 | 1 | 06/09/2024 08:49 | WG2299945 |
| Zinc | 339 | | 0.969 | 5.82 | 1 | 06/09/2024 08:49 | WG2299945 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0275 | 0.0792 | 2 | 06/19/2024 09:11 | WG2304583 |
| PCB 1221 | U | | 0.0275 | 0.0792 | 2 | 06/19/2024 09:11 | WG2304583 |
| PCB 1232 | U | | 0.0275 | 0.0792 | 2 | 06/19/2024 09:11 | WG2304583 |
| PCB 1242 | U | | 0.0275 | 0.0792 | 2 | 06/19/2024 09:11 | WG2304583 |
| PCB 1248 | U | | 0.0172 | 0.0396 | 2 | 06/19/2024 09:11 | WG2304583 |
| PCB 1254 | U | | 0.0172 | 0.0396 | 2 | 06/19/2024 09:11 | WG2304583 |
| PCB 1260 | 2.51 | | 0.0859 | 0.198 | 10 | 06/21/2024 02:20 | WG2304583 |
| *(S) Decachlorobiphenyl* | *77.1* | | | *10.0-135* | | *06/19/2024 09:11* | WG2304583 |
| *(S) Decachlorobiphenyl* | *62.0* | | | *10.0-135* | | *06/21/2024 02:20* | WG2304583 |
| *(S) Tetrachloro-m-xylene* | *62.5* | | | *10.0-139* | | *06/21/2024 02:20* | WG2304583 |
| *(S) Tetrachloro-m-xylene* | *71.6* | | | *10.0-139* | | *06/19/2024 09:11* | WG2304583 |

**Sample Narrative:**

L1741921-31 WG2304583: Dilution due to sulfur cleanup.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.126 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Acenaphthylene | 0.119 | J | 0.109 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Anthracene | U | | 0.139 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Benzidine | U | | 1.46 | 38.9 | 20 | 06/12/2024 05:48 | WG2302475 |
| Benzo(a)anthracene | 0.232 | J | 0.136 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Benzo(b)fluoranthene | 0.608 | J | 0.144 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(k)fluoranthene | U | | 0.137 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Benzo(g,h,i)perylene | 0.397 | J | 0.142 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Benzo(a)pyrene | 0.469 | J | 0.144 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Bis(2-chlorethoxy)methane | U | | 0.233 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.256 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.335 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.272 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.136 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.270 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Chrysene | 0.244 | J | 0.154 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.215 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.229 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.235 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.230 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.286 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.222 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.254 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Fluoranthene | 0.400 | J | 0.140 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Fluorene | U | | 0.126 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Hexachlorobenzene | U | | 0.275 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.261 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.407 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Hexachloroethane | U | | 0.305 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | 0.441 | J | 0.219 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Isophorone | U | | 0.237 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Naphthalene | U | | 0.194 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Nitrobenzene | U | | 0.270 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| n-Nitrosodimethylamine | U | | 1.15 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.587 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.258 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Phenanthrene | U | | 0.154 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.242 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.983 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.265 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Diethyl phthalate | U | | 0.256 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Dimethyl phthalate | U | | 1.64 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Di-n-octyl phthalate | U | | 0.524 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Pyrene | 0.678 | J | 0.151 | 0.775 | 20 | 06/12/2024 05:48 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.242 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.251 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2-Chlorophenol | U | | 0.256 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.226 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.203 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 1.76 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2,4-Dinitrophenol | U | | 1.82 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2-Nitrophenol | U | | 0.277 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 4-Nitrophenol | U | | 0.242 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Pentachlorophenol | U | | 0.208 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| Phenol | U | | 0.312 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.249 | 7.75 | 20 | 06/12/2024 05:48 | WG2302475 |
| *(S) 2-Fluorophenol* | *73.8* | J7 | | *12.0-120* | | *06/12/2024 05:48* | WG2302475 |
| *(S) Phenol-d5* | *83.3* | J7 | | *10.0-120* | | *06/12/2024 05:48* | WG2302475 |
| *(S) Nitrobenzene-d5* | *86.9* | J7 | | *10.0-122* | | *06/12/2024 05:48* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *72.0* | J7 | | *15.0-120* | | *06/12/2024 05:48* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *60.7* | J7 | | *10.0-127* | | *06/12/2024 05:48* | WG2302475 |
| *(S) p-Terphenyl-d14* | *80.4* | J7 | | *10.0-120* | | *06/12/2024 05:48* | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

Sample Narrative:

L1741921-31 WG2302475: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 84.3 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0501 | | 0.0214 | 0.0475 | 1 | 06/05/2024 19:07 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 16.7 | | 0.646 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| Arsenic | 2.94 | | 0.615 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| Barium | 243 | | 0.101 | 0.593 | 1 | 06/09/2024 08:51 | WG2299945 |
| Beryllium | 0.587 | | 0.0374 | 0.237 | 1 | 06/09/2024 08:51 | WG2299945 |
| Cadmium | 7.58 | | 0.0559 | 0.593 | 1 | 06/09/2024 08:51 | WG2299945 |
| Chromium | 112 | | 0.158 | 1.19 | 1 | 06/09/2024 08:51 | WG2299945 |
| Cobalt | 9.20 | | 0.0962 | 1.19 | 1 | 06/09/2024 08:51 | WG2299945 |
| Copper | 204 | | 0.475 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| Lead | 1620 | | 0.247 | 0.593 | 1 | 06/09/2024 08:51 | WG2299945 |
| Molybdenum | 19.2 | | 0.129 | 0.593 | 1 | 06/09/2024 08:51 | WG2299945 |
| Nickel | 77.1 | | 0.157 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| Selenium | 2.81 | | 0.907 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| Silver | 2.47 | B | 0.151 | 1.19 | 1 | 06/09/2024 08:51 | WG2299945 |
| Thallium | U | | 0.468 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| Vanadium | 40.1 | | 0.601 | 2.37 | 1 | 06/09/2024 08:51 | WG2299945 |
| Zinc | 1240 | | 0.987 | 5.93 | 1 | 06/09/2024 08:51 | WG2299945 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 J4 | 0.0515 | 0.0706 | 1 | 06/11/2024 21:41 | WG2303115 |
| Acrylonitrile | U | | 0.00509 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| Benzene | 0.0306 | | 0.000659 | 0.00141 | 1 | 06/11/2024 21:41 | WG2303115 |
| Bromobenzene | U | | 0.00127 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| Bromodichloromethane | U | | 0.00102 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Bromoform | U | | 0.00165 | 0.0353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Bromomethane | U | | 0.00278 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| n-Butylbenzene | 0.0165 | J | 0.00741 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| sec-Butylbenzene | 0.00559 | J | 0.00406 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| tert-Butylbenzene | U | | 0.00275 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| Carbon tetrachloride | U | | 0.00127 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| Chlorobenzene | 0.00117 | J | 0.000296 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Chlorodibromomethane | U | | 0.000864 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Chloroethane | U | | 0.00240 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| Chloroform | U | | 0.00145 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Chloromethane | U | | 0.00614 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00122 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000635 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00550 | 0.0353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000914 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Dibromomethane | U | | 0.00106 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2-Dichlorobenzene | 0.0193 | | 0.000600 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,3-Dichlorobenzene | 0.00111 | J | 0.000847 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,4-Dichlorobenzene | 0.00433 | J | 0.000988 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00227 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,1-Dichloroethane | 0.00905 | | 0.000693 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000916 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000855 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| cis-1,2-Dichloroethene | 0.00490 | | 0.00104 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00147 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00200 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00114 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000707 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00107 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00161 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00195 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Di-isopropyl ether | U | | 0.000579 | 0.00141 | 1 | 06/11/2024 21:41 | WG2303115 |
| Ethylbenzene | 0.0203 | | 0.00104 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00847 | 0.0353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Isopropylbenzene | 0.00368 | | 0.000600 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| p-Isopropyltoluene | 0.0164 | | 0.00360 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0896 | 0.141 | 1 | 06/11/2024 21:41 | WG2303115 |
| Methylene Chloride | U | | 0.00937 | 0.0353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00322 | 0.0353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Methyl tert-butyl ether | U | | 0.000494 | 0.00141 | 1 | 06/11/2024 21:41 | WG2303115 |
| Naphthalene | 0.0762 | | 0.00689 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| n-Propylbenzene | 0.0164 | | 0.00134 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| Styrene | U | | 0.000323 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00134 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000981 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00106 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Tetrachloroethene | U | | 0.00126 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Toluene | 0.0344 | | 0.00183 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0103 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00621 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,1,1-Trichloroethane | U | | 0.00130 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000842 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Trichloroethene | 0.00436 | | 0.000824 | 0.00141 | 1 | 06/11/2024 21:41 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00117 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00229 | 0.0176 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2,4-Trimethylbenzene | 0.0505 | | 0.00223 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,2,3-Trimethylbenzene | 0.0231 | | 0.00223 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| 1,3,5-Trimethylbenzene | 0.00902 | | 0.00282 | 0.00706 | 1 | 06/11/2024 21:41 | WG2303115 |
| Vinyl chloride | U | | 0.00164 | 0.00353 | 1 | 06/11/2024 21:41 | WG2303115 |
| Xylenes, Total | 0.0982 | | 0.00124 | 0.00917 | 1 | 06/11/2024 21:41 | WG2303115 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/11/2024 21:41* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/11/2024 21:41* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* | | *06/11/2024 21:41* | WG2303115 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0640 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Acenaphthylene | U | | 0.0557 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Anthracene | U | | 0.0704 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Benzidine | U | | 0.743 | 19.8 | 10 | 06/12/2024 06:08 | WG2302475 |
| Benzo(a)anthracene | 0.317 | J | 0.0697 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Benzo(b)fluoranthene | 0.668 | | 0.0737 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Benzo(k)fluoranthene | 0.211 | J | 0.0703 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Benzo(g,h,i)perylene | 0.265 | J | 0.0723 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.484 | | 0.0735 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Bis(2-chlorethoxy)methane | U | | 0.119 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Bis(2-chloroethyl)ether | U | J4 | 0.131 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.171 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 4-Bromophenyl-phenylether | U | | 0.139 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2-Chloronaphthalene | U | | 0.0694 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| 4-Chlorophenyl-phenylether | U | | 0.138 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Chrysene | 0.329 | J | 0.0786 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Dibenz(a,h)anthracene | U | | 0.110 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| 1,2-Dichlorobenzene | U | | 0.117 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 1,3-Dichlorobenzene | U | | 0.120 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 1,4-Dichlorobenzene | U | | 0.118 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 3,3-Dichlorobenzidine | U | | 0.146 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2,4-Dinitrotoluene | U | | 0.113 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2,6-Dinitrotoluene | U | | 0.129 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Fluoranthene | 0.380 | J | 0.0713 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Fluorene | 0.0717 | J | 0.0643 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Hexachlorobenzene | U | | 0.140 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Hexachloro-1,3-butadiene | U | | 0.133 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Hexachlorocyclopentadiene | U | | 0.208 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Hexachloroethane | U | | 0.155 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Indeno(1,2,3-cd)pyrene | 0.268 | J | 0.112 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Isophorone | U | | 0.121 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Naphthalene | 0.211 | J | 0.0992 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Nitrobenzene | U | | 0.138 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| n-Nitrosodimethylamine | U | | 0.586 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| n-Nitrosodiphenylamine | U | | 0.299 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| n-Nitrosodi-n-propylamine | U | | 0.132 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Phenanthrene | 0.179 | J | 0.0784 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| Benzylbutyl phthalate | U | | 0.123 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Bis(2-ethylhexyl)phthalate | U | | 0.501 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Di-n-butyl phthalate | U | | 0.135 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Diethyl phthalate | U | | 0.131 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Dimethyl phthalate | U | | 0.838 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Di-n-octyl phthalate | 1.39 | J | 0.267 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Pyrene | 0.453 | | 0.0769 | 0.395 | 10 | 06/12/2024 06:08 | WG2302475 |
| 1,2,4-Trichlorobenzene | U | | 0.123 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 4-Chloro-3-methylphenol | U | | 0.128 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2-Chlorophenol | U | | 0.131 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2,4-Dichlorophenol | U | | 0.115 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2,4-Dimethylphenol | U | | 0.103 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 4,6-Dinitro-2-methylphenol | U | | 0.896 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2,4-Dinitrophenol | U | | 0.925 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2-Nitrophenol | U | | 0.141 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 4-Nitrophenol | U | | 0.123 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Pentachlorophenol | U | | 0.106 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| Phenol | U | | 0.159 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| 2,4,6-Trichlorophenol | U | | 0.127 | 3.95 | 10 | 06/12/2024 06:08 | WG2302475 |
| *(S) 2-Fluorophenol* | *62.7* | | | *12.0-120* | | *06/12/2024 06:08* | WG2302475 |
| *(S) Phenol-d5* | *61.6* | | | *10.0-120* | | *06/12/2024 06:08* | WG2302475 |
| *(S) Nitrobenzene-d5* | *59.9* | | | *10.0-122* | | *06/12/2024 06:08* | WG2302475 |
| *(S) 2-Fluorobiphenyl* | *53.0* | | | *15.0-120* | | *06/12/2024 06:08* | WG2302475 |
| *(S) 2,4,6-Tribromophenol* | *55.0* | | | *10.0-127* | | *06/12/2024 06:08* | WG2302475 |
| *(S) p-Terphenyl-d14* | *60.2* | | | *10.0-120* | | *06/12/2024 06:08* | WG2302475 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.7 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | U | | 0.0210 | 0.0467 | 1 | 06/05/2024 19:09 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 16.8 | | 0.635 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| Arsenic | 15.1 | | 3.02 | 11.7 | 5 | 06/10/2024 09:10 | WG2299939 |
| Barium | 207 | | 0.0994 | 0.584 | 1 | 06/09/2024 19:33 | WG2299939 |
| Beryllium | 0.571 | | 0.0368 | 0.233 | 1 | 06/09/2024 19:33 | WG2299939 |
| Cadmium | 11.4 | | 0.0550 | 0.584 | 1 | 06/09/2024 19:33 | WG2299939 |
| Chromium | 77.6 | | 0.155 | 1.17 | 1 | 06/09/2024 19:33 | WG2299939 |
| Cobalt | 2.07 | | 0.0947 | 1.17 | 1 | 06/09/2024 19:33 | WG2299939 |
| Copper | 173 | | 0.467 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| Lead | 4540 | | 0.243 | 0.584 | 1 | 06/09/2024 19:33 | WG2299939 |
| Molybdenum | 6.02 | | 0.127 | 0.584 | 1 | 06/09/2024 19:33 | WG2299939 |
| Nickel | 22.9 | | 0.154 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| Selenium | 7.42 | | 0.892 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| Silver | 6.93 | | 0.148 | 1.17 | 1 | 06/10/2024 09:41 | WG2299939 |
| Thallium | U | | 2.30 | 11.7 | 5 | 06/10/2024 09:10 | WG2299939 |
| Vanadium | 26.0 | | 0.591 | 2.33 | 1 | 06/09/2024 19:33 | WG2299939 |
| Zinc | 1880 | | 0.971 | 5.84 | 1 | 06/09/2024 19:33 | WG2299939 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.17 | J | 1.11 | 3.35 | 25 | 06/06/2024 00:34 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/06/2024 00:34* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0490 | 0.0671 | 1 | 06/11/2024 22:01 | WG2303115 |
| Acrylonitrile | U | | 0.00484 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| Benzene | 0.00287 | | 0.000626 | 0.00134 | 1 | 06/11/2024 22:01 | WG2303115 |
| Bromobenzene | U | | 0.00121 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| Bromodichloromethane | U | | 0.000973 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Bromoform | U | | 0.00157 | 0.0335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Bromomethane | U | | 0.00264 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| n-Butylbenzene | U | | 0.00704 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| sec-Butylbenzene | U | | 0.00386 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| tert-Butylbenzene | U | | 0.00262 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| Carbon tetrachloride | 0.00322 | J | 0.00120 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| Chlorobenzene | U | | 0.000282 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Chlorodibromomethane | U | | 0.000821 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Chloroethane | U | | 0.00228 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| Chloroform | U | | 0.00138 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Chloromethane | U | | 0.00584 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00116 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000604 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00523 | 0.0335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000869 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Dibromomethane | U | | 0.00101 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2-Dichlorobenzene | 0.000869 | J | 0.000570 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000805 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.000939 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00216 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000659 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000871 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000813 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.000985 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00140 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00190 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00109 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000672 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00102 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00153 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00185 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Di-isopropyl ether | U | | 0.000550 | 0.00134 | 1 | 06/11/2024 22:01 | WG2303115 |
| Ethylbenzene | 0.00287 | J | 0.000989 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00805 | 0.0335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Isopropylbenzene | 0.00122 | J | 0.000570 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| p-Isopropyltoluene | 0.00483 | J | 0.00342 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0852 | 0.134 | 1 | 06/11/2024 22:01 | WG2303115 |
| Methylene Chloride | U | | 0.00891 | 0.0335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00306 | 0.0335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Methyl tert-butyl ether | U | | 0.000470 | 0.00134 | 1 | 06/11/2024 22:01 | WG2303115 |
| Naphthalene | 0.0286 | | 0.00655 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| n-Propylbenzene | 0.00287 | J | 0.00127 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| Styrene | U | | 0.000307 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00127 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000932 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00101 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Tetrachloroethene | 0.00370 | | 0.00120 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Toluene | 0.00975 | | 0.00174 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.00983 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00590 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,1,1-Trichloroethane | 0.0330 | | 0.00124 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000801 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Trichloroethene | U | | 0.000783 | 0.00134 | 1 | 06/11/2024 22:01 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00111 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00217 | 0.0168 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2,4-Trimethylbenzene | 0.0182 | | 0.00212 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,2,3-Trimethylbenzene | 0.0115 | | 0.00212 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| 1,3,5-Trimethylbenzene | 0.00773 | | 0.00268 | 0.00671 | 1 | 06/11/2024 22:01 | WG2303115 |
| Vinyl chloride | U | | 0.00156 | 0.00335 | 1 | 06/11/2024 22:01 | WG2303115 |
| Xylenes, Total | 0.0239 | | 0.00118 | 0.00872 | 1 | 06/11/2024 22:01 | WG2303115 |
| *(S) Toluene-d8* | *105* | | | *75.0-131* | | *06/11/2024 22:01* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/11/2024 22:01* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/11/2024 22:01* | WG2303115 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 27.7 | | 0.856 | 4.67 | 1 | 06/13/2024 13:54 | WG2303234 |
| C22-C32 Hydrocarbons | 38.4 | | 1.55 | 4.67 | 1 | 06/13/2024 13:54 | WG2303234 |
| C32-C40 Hydrocarbons | 21.5 | | 1.55 | 4.67 | 1 | 06/13/2024 13:54 | WG2303234 |
| *(S) o-Terphenyl* | *61.5* | | | *18.0-148* | | *06/13/2024 13:54* | WG2303234 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00629 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Acenaphthylene | U | | 0.00547 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Anthracene | U | | 0.00692 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Benzidine | U | | 0.0731 | 1.95 | 1 | 06/13/2024 22:41 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00685 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00725 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00691 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00711 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00723 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0117 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0128 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0168 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0137 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00683 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0135 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Chrysene | U | | 0.00773 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0108 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0115 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0118 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0116 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0144 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0111 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0127 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Fluoranthene | U | | 0.00702 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Fluorene | U | | 0.00633 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Hexachlorobenzene | U | | 0.0138 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0131 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0204 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Hexachloroethane | U | | 0.0153 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0110 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Isophorone | U | | 0.0119 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Naphthalene | U | | 0.00976 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Nitrobenzene | U | | 0.0135 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0577 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0294 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0130 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Phenanthrene | U | | 0.00772 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0121 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0493 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0133 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Diethyl phthalate | U | | 0.0128 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Dimethyl phthalate | U | | 0.0824 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0263 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Pyrene | U | | 0.00756 | 0.0389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0121 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0126 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2-Chlorophenol | U | | 0.0128 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0113 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0102 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0881 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0909 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2-Nitrophenol | U | | 0.0139 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 4-Nitrophenol | U | | 0.0121 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Pentachlorophenol | U | | 0.0105 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| Phenol | U | | 0.0156 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0125 | 0.389 | 1 | 06/13/2024 22:41 | WG2303251 |
| *(S) 2-Fluorophenol* | *78.9* | | | *12.0-120* | | *06/13/2024 22:41* | WG2303251 |
| *(S) Phenol-d5* | *73.4* | | | *10.0-120* | | *06/13/2024 22:41* | WG2303251 |
| *(S) Nitrobenzene-d5* | *57.8* | | | *10.0-122* | | *06/13/2024 22:41* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *69.3* | | | *15.0-120* | | *06/13/2024 22:41* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *69.8* | | | *10.0-127* | | *06/13/2024 22:41* | WG2303251 |
| *(S) p-Terphenyl-d14* | *77.2* | | | *10.0-120* | | *06/13/2024 22:41* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 84.6 | | 1 | 06/13/2024 07:36 | WG2304167 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Arsenic | 5.46 | | 0.612 | 2.36 | 1 | 07/01/2024 20:14 | WG2315127 |
| Lead | 53.8 | | 0.246 | 0.591 | 1 | 07/01/2024 20:14 | WG2315127 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 3.03 | B J | 1.13 | 3.41 | 25 | 06/13/2024 11:48 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.4* | | | *77.0-120* | | *06/13/2024 11:48* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0498 | 0.0683 | 1 | 06/13/2024 03:17 | WG2304049 |
| Acrylonitrile | U | | 0.00493 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| Benzene | U | | 0.000638 | 0.00137 | 1 | 06/13/2024 03:17 | WG2304049 |
| Bromobenzene | U | | 0.00123 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| Bromodichloromethane | U | | 0.000990 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Bromoform | U | | 0.00160 | 0.0341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Bromomethane | U | | 0.00269 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| n-Butylbenzene | U | | 0.00717 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| sec-Butylbenzene | U | | 0.00393 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| tert-Butylbenzene | U | | 0.00266 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| Carbon tetrachloride | U | | 0.00123 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| Chlorobenzene | U | | 0.000287 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Chlorodibromomethane | U | | 0.000836 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Chloroethane | U | | 0.00232 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| Chloroform | U | | 0.00141 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Chloromethane | U | | 0.00594 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00118 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000614 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00532 | 0.0341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.000885 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Dibromomethane | U | | 0.00102 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000580 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.000819 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.000956 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00220 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000670 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.000886 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.000827 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00100 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00142 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00194 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00110 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000684 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00103 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00156 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00188 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Di-isopropyl ether | U | | 0.000560 | 0.00137 | 1 | 06/13/2024 03:17 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Ethylbenzene | U | | 0.00101 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.00819 | 0.0341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Isopropylbenzene | U | | 0.000580 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00348 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.0867 | 0.137 | 1 | 06/13/2024 03:17 | WG2304049 |
| Methylene Chloride | 0.0103 | J | 0.00907 | 0.0341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00311 | 0.0341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Methyl tert-butyl ether | U | | 0.000478 | 0.00137 | 1 | 06/13/2024 03:17 | WG2304049 |
| Naphthalene | U | J3 | 0.00666 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| n-Propylbenzene | U | | 0.00130 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| Styrene | U | | 0.000313 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00129 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000949 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00103 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Tetrachloroethene | U | | 0.00122 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Toluene | U | | 0.00177 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0100 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00601 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00126 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.000815 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Trichloroethene | U | | 0.000797 | 0.00137 | 1 | 06/13/2024 03:17 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00113 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00221 | 0.0171 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00216 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00216 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00273 | 0.00683 | 1 | 06/13/2024 03:17 | WG2304049 |
| Vinyl chloride | U | | 0.00158 | 0.00341 | 1 | 06/13/2024 03:17 | WG2304049 |
| Xylenes, Total | U | | 0.00120 | 0.00887 | 1 | 06/13/2024 03:17 | WG2304049 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/13/2024 03:17* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/13/2024 03:17* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *78.4* | | | *70.0-130* | | *06/13/2024 03:17* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 87.3 | | 0.866 | 4.73 | 1 | 06/14/2024 04:54 | WG2304127 |
| C22-C32 Hydrocarbons | 490 | | 15.7 | 47.3 | 10 | 06/14/2024 18:34 | WG2304127 |
| C32-C40 Hydrocarbons | 220 | | 15.7 | 47.3 | 10 | 06/14/2024 18:34 | WG2304127 |
| *(S) o-Terphenyl* | *73.0* | | | *18.0-148* | | *06/14/2024 18:34* | WG2304127 |
| *(S) o-Terphenyl* | *69.4* | | | *18.0-148* | | *06/14/2024 04:54* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0128 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Acenaphthylene | U | | 0.0111 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Anthracene | U | | 0.0141 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Benzidine | U | | 0.148 | 3.95 | 2 | 06/14/2024 10:38 | WG2304128 |
| Benzo(a)anthracene | U | | 0.0138 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Benzo(b)fluoranthene | 0.0276 | J | 0.0146 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.0139 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Benzo(g,h,i)perylene | 0.0176 | J | 0.0144 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Benzo(a)pyrene | 0.0176 | J | 0.0146 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0236 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0260 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0340 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0276 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.0138 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0274 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Chrysene | U | | 0.0156 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0219 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0233 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0239 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 1,4-Dichlorobenzene | U | | 0.0234 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0291 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0226 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0258 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Fluoranthene | 0.0154 | J | 0.0142 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Fluorene | U | | 0.0128 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Hexachlorobenzene | U | | 0.0279 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0265 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0413 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Hexachloroethane | U | | 0.0310 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0222 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Isophorone | U | | 0.0241 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Naphthalene | U | | 0.0197 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Nitrobenzene | U | | 0.0274 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.117 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0595 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0262 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Phenanthrene | 0.0171 | J | 0.0156 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0246 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0997 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0269 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Diethyl phthalate | U | | 0.0260 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Dimethyl phthalate | U | | 0.167 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0532 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Pyrene | 0.0267 | J | 0.0154 | 0.0787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0246 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0255 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2-Chlorophenol | U | | 0.0260 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0229 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0206 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.178 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.184 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2-Nitrophenol | U | | 0.0281 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 4-Nitrophenol | U | | 0.0246 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Pentachlorophenol | U | | 0.0211 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| Phenol | U | | 0.0317 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0253 | 0.787 | 2 | 06/14/2024 10:38 | WG2304128 |
| *(S) 2-Fluorophenol* | *65.1* | | | *12.0-120* | | *06/14/2024 10:38* | WG2304128 |
| *(S) Phenol-d5* | *64.2* | | | *10.0-120* | | *06/14/2024 10:38* | WG2304128 |
| *(S) Nitrobenzene-d5* | *53.9* | | | *10.0-122* | | *06/14/2024 10:38* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *67.3* | | | *15.0-120* | | *06/14/2024 10:38* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *80.5* | | | *10.0-127* | | *06/14/2024 10:38* | WG2304128 |
| *(S) p-Terphenyl-d14* | *87.9* | | | *10.0-120* | | *06/14/2024 10:38* | WG2304128 |

**Sample Narrative:**

L1741921-34 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.6 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.33 | 3.99 | 25 | 06/06/2024 00:56 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *06/06/2024 00:56* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0583 | 0.0799 | 1 | 06/11/2024 22:19 | WG2303115 |
| Acrylonitrile | U | | 0.00577 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| Benzene | U | | 0.000746 | 0.00160 | 1 | 06/11/2024 22:19 | WG2303115 |
| Bromobenzene | U | | 0.00144 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| Bromodichloromethane | U | | 0.00116 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Bromoform | U | | 0.00187 | 0.0399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Bromomethane | U | | 0.00315 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| n-Butylbenzene | U | | 0.00839 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| sec-Butylbenzene | U | | 0.00460 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| tert-Butylbenzene | U | | 0.00312 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| Carbon tetrachloride | U | | 0.00143 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| Chlorobenzene | U | | 0.000336 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Chlorodibromomethane | U | | 0.000978 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Chloroethane | U | | 0.00272 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| Chloroform | U | | 0.00165 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Chloromethane | U | | 0.00695 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00138 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000719 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00623 | 0.0399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.00104 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Dibromomethane | U | | 0.00120 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000679 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000959 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.00112 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00257 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000784 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.00104 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000968 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.00117 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00166 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00227 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00129 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000800 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00121 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00182 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00220 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Di-isopropyl ether | U | | 0.000655 | 0.00160 | 1 | 06/11/2024 22:19 | WG2303115 |
| Ethylbenzene | U | | 0.00118 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00959 | 0.0399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Isopropylbenzene | U | | 0.000679 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00407 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.101 | 0.160 | 1 | 06/11/2024 22:19 | WG2303115 |
| Methylene Chloride | U | | 0.0106 | 0.0399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00364 | 0.0399 | 1 | 06/11/2024 22:19 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000559 | 0.00160 | 1 | 06/11/2024 22:19 | WG2303115 |
| Naphthalene | U | | 0.00780 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| n-Propylbenzene | U | | 0.00152 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| Styrene | U | | 0.000366 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00151 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00111 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00120 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Tetrachloroethene | U | | 0.00143 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Toluene | U | | 0.00208 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0117 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00703 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,1,1-Trichloroethane | U | | 0.00147 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000954 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Trichloroethene | U | | 0.000933 | 0.00160 | 1 | 06/11/2024 22:19 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00132 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00259 | 0.0200 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00252 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00252 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00320 | 0.00799 | 1 | 06/11/2024 22:19 | WG2303115 |
| Vinyl chloride | U | | 0.00185 | 0.00399 | 1 | 06/11/2024 22:19 | WG2303115 |
| Xylenes, Total | U | | 0.00141 | 0.0104 | 1 | 06/11/2024 22:19 | WG2303115 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/11/2024 22:19* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *67.0-138* | | *06/11/2024 22:19* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *109* | | | *70.0-130* | | *06/11/2024 22:19* | WG2303115 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 325 | | 46.7 | 255 | 50 | 06/13/2024 15:21 | WG2303234 |
| C22-C32 Hydrocarbons | 2390 | | 84.6 | 255 | 50 | 06/13/2024 15:21 | WG2303234 |
| C32-C40 Hydrocarbons | 1250 | | 84.6 | 255 | 50 | 06/13/2024 15:21 | WG2303234 |
| *(S) o-Terphenyl* | *93.1* | J7 | | *18.0-148* | | *06/13/2024 15:21* | WG2303234 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.440 | | 0.0208 | 0.0462 | 1 | 06/05/2024 19:12 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 6.34 | | 0.628 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| Arsenic | U | | 0.598 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| Barium | 85.8 | | 0.0984 | 0.577 | 1 | 06/09/2024 19:35 | WG2299939 |
| Beryllium | 0.0628 | J | 0.0364 | 0.231 | 1 | 06/09/2024 19:35 | WG2299939 |
| Cadmium | 3.15 | | 0.0544 | 0.577 | 1 | 06/09/2024 19:35 | WG2299939 |
| Chromium | 73.7 | | 0.154 | 1.15 | 1 | 06/09/2024 19:35 | WG2299939 |
| Cobalt | 20.0 | | 0.0936 | 1.15 | 1 | 06/09/2024 19:35 | WG2299939 |
| Copper | 141 | | 0.462 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| Lead | 779 | | 0.240 | 0.577 | 1 | 06/09/2024 19:35 | WG2299939 |
| Molybdenum | 5.08 | | 0.126 | 0.577 | 1 | 06/09/2024 19:35 | WG2299939 |
| Nickel | 46.0 | | 0.152 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| Selenium | U | | 0.882 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| Silver | 1.61 | | 0.147 | 1.15 | 1 | 06/10/2024 09:43 | WG2299939 |
| Thallium | U | | 0.455 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| Vanadium | 26.8 | | 0.584 | 2.31 | 1 | 06/09/2024 19:35 | WG2299939 |
| Zinc | 629 | | 0.961 | 5.77 | 1 | 06/09/2024 19:35 | WG2299939 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0136 | 0.0393 | 1 | 06/13/2024 12:43 | WG2303247 |
| PCB 1221 | U | | 0.0136 | 0.0393 | 1 | 06/13/2024 12:43 | WG2303247 |
| PCB 1232 | U | | 0.0136 | 0.0393 | 1 | 06/13/2024 12:43 | WG2303247 |
| PCB 1242 | U | | 0.0136 | 0.0393 | 1 | 06/13/2024 12:43 | WG2303247 |
| PCB 1248 | U | | 0.00852 | 0.0196 | 1 | 06/13/2024 12:43 | WG2303247 |
| PCB 1254 | U | | 0.00852 | 0.0196 | 1 | 06/13/2024 12:43 | WG2303247 |
| PCB 1260 | 0.0926 | P | 0.00852 | 0.0196 | 1 | 06/19/2024 00:54 | WG2303247 |
| *(S) Decachlorobiphenyl* | *83.6* | | | *10.0-135* | | *06/13/2024 12:43* | WG2303247 |
| *(S) Decachlorobiphenyl* | *84.4* | | | *10.0-135* | | *06/19/2024 00:54* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *82.5* | | | *10.0-139* | | *06/19/2024 00:54* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *69.5* | | | *10.0-139* | | *06/13/2024 12:43* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.00622 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Acenaphthylene | U | | 0.00542 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Anthracene | U | | 0.00685 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Benzidine | U | | 0.0723 | 1.93 | 1 | 06/13/2024 19:49 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00678 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00717 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00684 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00703 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00715 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0115 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0127 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0166 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0135 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00675 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0134 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Chrysene | U | | 0.00764 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0107 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0114 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0117 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0114 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0142 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0110 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0126 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Fluoranthene | U | | 0.00694 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Fluorene | U | | 0.00626 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Hexachlorobenzene | U | | 0.0136 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0129 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0202 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Hexachloroethane | U | | 0.0151 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0109 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Isophorone | U | | 0.0118 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Naphthalene | U | | 0.00965 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Nitrobenzene | U | | 0.0134 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0570 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0291 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0128 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Phenanthrene | U | | 0.00763 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0120 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0487 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0132 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Diethyl phthalate | U | | 0.0127 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Dimethyl phthalate | U | | 0.0815 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0260 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Pyrene | U | | 0.00748 | 0.0384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0120 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0125 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2-Chlorophenol | U | | 0.0127 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0112 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0100 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0872 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0899 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2-Nitrophenol | U | | 0.0137 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 4-Nitrophenol | U | | 0.0120 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Pentachlorophenol | U | | 0.0103 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| Phenol | U | | 0.0155 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0124 | 0.384 | 1 | 06/13/2024 19:49 | WG2303251 |
| *(S) 2-Fluorophenol* | *69.0* | | | *12.0-120* | | *06/13/2024 19:49* | WG2303251 |
| *(S) Phenol-d5* | *63.5* | | | *10.0-120* | | *06/13/2024 19:49* | WG2303251 |
| *(S) Nitrobenzene-d5* | *52.2* | | | *10.0-122* | | *06/13/2024 19:49* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *59.4* | | | *15.0-120* | | *06/13/2024 19:49* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *64.9* | | | *10.0-127* | | *06/13/2024 19:49* | WG2303251 |
| *(S) p-Terphenyl-d14* | *72.3* | | | *10.0-120* | | *06/13/2024 19:49* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.0 | | 1 | 06/03/2024 15:57 | WG2297634 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.189 | | 0.0198 | 0.0439 | 1 | 06/05/2024 19:14 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 5.94 | | 0.598 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| Arsenic | U | | 0.569 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| Barium | 55.1 | | 0.0936 | 0.549 | 1 | 06/09/2024 19:37 | WG2299939 |
| Beryllium | 0.152 | J | 0.0346 | 0.220 | 1 | 06/09/2024 19:37 | WG2299939 |
| Cadmium | 0.586 | | 0.0517 | 0.549 | 1 | 06/09/2024 19:37 | WG2299939 |
| Chromium | 34.7 | | 0.146 | 1.10 | 1 | 06/09/2024 19:37 | WG2299939 |
| Cobalt | 11.2 | | 0.0891 | 1.10 | 1 | 06/09/2024 19:37 | WG2299939 |
| Copper | 80.1 | | 0.439 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| Lead | 172 | | 0.229 | 0.549 | 1 | 06/09/2024 19:37 | WG2299939 |
| Molybdenum | 1.44 | | 0.120 | 0.549 | 1 | 06/09/2024 19:37 | WG2299939 |
| Nickel | 28.3 | | 0.145 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| Selenium | 1.22 | J | 0.839 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| Silver | 0.740 | J | 0.140 | 1.10 | 1 | 06/10/2024 09:48 | WG2299939 |
| Thallium | U | | 0.433 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| Vanadium | 26.0 | | 0.556 | 2.20 | 1 | 06/09/2024 19:37 | WG2299939 |
| Zinc | 168 | | 0.914 | 5.49 | 1 | 06/09/2024 19:37 | WG2299939 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0439 | 0.0602 | 1 | 06/11/2024 22:38 | WG2303115 |
| Acrylonitrile | U | | 0.00435 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| Benzene | 0.000792 | J | 0.000562 | 0.00120 | 1 | 06/11/2024 22:38 | WG2303115 |
| Bromobenzene | U | | 0.00108 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| Bromodichloromethane | U | | 0.000873 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Bromoform | U | | 0.00141 | 0.0301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Bromomethane | U | | 0.00237 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| n-Butylbenzene | U | | 0.00632 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| sec-Butylbenzene | U | | 0.00347 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| tert-Butylbenzene | U | | 0.00235 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| Carbon tetrachloride | U | | 0.00108 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| Chlorobenzene | U | | 0.000253 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Chlorodibromomethane | U | | 0.000737 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Chloroethane | U | | 0.00205 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| Chloroform | U | | 0.00124 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Chloromethane | U | | 0.00524 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00104 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000542 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00469 | 0.0301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000780 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Dibromomethane | U | | 0.000903 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000512 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000722 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.000843 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00194 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000591 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000781 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000729 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.000884 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00125 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00171 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.000974 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000603 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.000911 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00137 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00166 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Di-isopropyl ether | U | | 0.000494 | 0.00120 | 1 | 06/11/2024 22:38 | WG2303115 |
| Ethylbenzene | U | | 0.000887 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00722 | 0.0301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Isopropylbenzene | U | | 0.000512 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00307 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0764 | 0.120 | 1 | 06/11/2024 22:38 | WG2303115 |
| Methylene Chloride | U | | 0.00799 | 0.0301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00274 | 0.0301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Methyl tert-butyl ether | U | | 0.000421 | 0.00120 | 1 | 06/11/2024 22:38 | WG2303115 |
| Naphthalene | 0.0165 | | 0.00587 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| n-Propylbenzene | U | | 0.00114 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| Styrene | U | | 0.000276 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00114 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000837 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000908 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Tetrachloroethene | U | | 0.00108 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Toluene | 0.00193 | J | 0.00156 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.00882 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00530 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,1,1-Trichloroethane | 0.00136 | J | 0.00111 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000719 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Trichloroethene | U | | 0.000703 | 0.00120 | 1 | 06/11/2024 22:38 | WG2303115 |
| Trichlorofluoromethane | U | | 0.000996 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00195 | 0.0150 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00190 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00190 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00241 | 0.00602 | 1 | 06/11/2024 22:38 | WG2303115 |
| Vinyl chloride | U | | 0.00140 | 0.00301 | 1 | 06/11/2024 22:38 | WG2303115 |
| Xylenes, Total | 0.00110 | J | 0.00106 | 0.00782 | 1 | 06/11/2024 22:38 | WG2303115 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/11/2024 22:38* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *67.0-138* | | *06/11/2024 22:38* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *108* | | | *70.0-130* | | *06/11/2024 22:38* | WG2303115 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0130 | 0.0374 | 1 | 07/01/2024 23:34 | WG2314791 |
| PCB 1221 | U | | 0.0130 | 0.0374 | 1 | 07/01/2024 23:34 | WG2314791 |
| PCB 1232 | U | | 0.0130 | 0.0374 | 1 | 07/01/2024 23:34 | WG2314791 |
| PCB 1242 | U | | 0.0130 | 0.0374 | 1 | 07/01/2024 23:34 | WG2314791 |
| PCB 1248 | U | | 0.00811 | 0.0187 | 1 | 07/01/2024 23:34 | WG2314791 |
| PCB 1254 | U | | 0.00811 | 0.0187 | 1 | 07/01/2024 23:34 | WG2314791 |
| PCB 1260 | U | | 0.00811 | 0.0187 | 1 | 07/01/2024 23:34 | WG2314791 |
| *(S) Decachlorobiphenyl* | *68.3* | | | *10.0-135* | | *07/01/2024 23:34* | WG2314791 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *83.9* | | | *10.0-139* | | *07/01/2024 23:34* | WG2314791 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00592 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Acenaphthylene | U | | 0.00515 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Anthracene | U | | 0.00651 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Benzidine | U | | 0.0688 | 1.83 | 1 | 06/13/2024 22:16 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00645 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00682 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00650 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00669 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00680 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0110 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0121 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0158 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0129 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00643 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0127 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Chrysene | U | | 0.00727 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0101 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0108 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0111 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0109 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0135 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0105 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0120 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Fluoranthene | U | | 0.00660 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Fluorene | U | | 0.00595 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Hexachlorobenzene | U | | 0.0130 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0123 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0192 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Hexachloroethane | U | | 0.0144 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0103 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Isophorone | U | | 0.0112 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Naphthalene | U | | 0.00918 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Nitrobenzene | U | | 0.0127 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0543 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0277 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0122 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Phenanthrene | U | | 0.00726 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0114 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0464 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0125 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Diethyl phthalate | U | | 0.0121 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Dimethyl phthalate | U | | 0.0776 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0247 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Pyrene | U | | 0.00712 | 0.0366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0114 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0119 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2-Chlorophenol | U | | 0.0121 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0107 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.00956 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0829 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0856 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0131 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 4-Nitrophenol | U | | 0.0114 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Pentachlorophenol | U | | 0.00984 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| Phenol | U | | 0.0147 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0118 | 0.366 | 1 | 06/13/2024 22:16 | WG2303251 |
| *(S) 2-Fluorophenol* | *72.2* | | | *12.0-120* | | *06/13/2024 22:16* | WG2303251 |
| *(S) Phenol-d5* | *66.6* | | | *10.0-120* | | *06/13/2024 22:16* | WG2303251 |
| *(S) Nitrobenzene-d5* | *53.8* | | | *10.0-122* | | *06/13/2024 22:16* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *66.2* | | | *15.0-120* | | *06/13/2024 22:16* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *64.5* | | | *10.0-127* | | *06/13/2024 22:16* | WG2303251 |
| *(S) p-Terphenyl-d14* | *75.7* | | | *10.0-120* | | *06/13/2024 22:16* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.6 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0456 | J | 0.0215 | 0.0478 | 1 | 06/05/2024 19:17 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 23.4 | | 3.25 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| Arsenic | 38.3 | | 3.10 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| Barium | 138 | | 0.509 | 2.99 | 5 | 06/10/2024 09:50 | WG2299939 |
| Beryllium | 0.284 | J | 0.189 | 1.20 | 5 | 06/10/2024 09:50 | WG2299939 |
| Cadmium | 2.15 | J | 0.282 | 2.99 | 5 | 06/10/2024 09:50 | WG2299939 |
| Chromium | 117 | | 0.795 | 5.98 | 5 | 06/10/2024 09:50 | WG2299939 |
| Cobalt | 16.7 | | 0.486 | 5.98 | 5 | 06/10/2024 09:50 | WG2299939 |
| Copper | 369 | | 2.39 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| Lead | 437 | | 1.24 | 2.99 | 5 | 06/10/2024 09:50 | WG2299939 |
| Molybdenum | 7.73 | | 0.652 | 2.99 | 5 | 06/10/2024 09:50 | WG2299939 |
| Nickel | 84.5 | | 0.789 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| Selenium | U | | 4.57 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| Silver | U | | 0.759 | 5.98 | 5 | 06/10/2024 09:50 | WG2299939 |
| Thallium | U | | 2.36 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| Vanadium | 96.3 | | 3.03 | 12.0 | 5 | 06/10/2024 09:50 | WG2299939 |
| Zinc | 459 | | 4.97 | 29.9 | 5 | 06/10/2024 09:50 | WG2299939 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.49 | J | 1.17 | 3.51 | 25.3 | 06/06/2024 01:17 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *06/06/2024 01:17* | WG2299409 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C12-C22 Hydrocarbons | 11.1 | | 0.877 | 4.78 | 1 | 06/13/2024 14:08 | WG2303234 |
| C22-C32 Hydrocarbons | 33.6 | | 1.59 | 4.78 | 1 | 06/13/2024 14:08 | WG2303234 |
| C32-C40 Hydrocarbons | 19.5 | | 1.59 | 4.78 | 1 | 06/13/2024 14:08 | WG2303234 |
| *(S) o-Terphenyl* | *72.9* | | | *18.0-148* | | *06/13/2024 14:08* | WG2303234 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.00645 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Acenaphthylene | U | | 0.00561 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Anthracene | U | | 0.00709 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Benzidine | U | | 0.0749 | 2.00 | 1 | 06/14/2024 00:43 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00702 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00743 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00708 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00728 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00740 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0120 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0132 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0172 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0140 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00700 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0139 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Chrysene | U | | 0.00792 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0110 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0118 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0121 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0119 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0147 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0114 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0130 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Fluoranthene | U | | 0.00719 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Fluorene | U | | 0.00648 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Hexachlorobenzene | U | | 0.0141 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0134 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0209 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Hexachloroethane | U | | 0.0157 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0113 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Isophorone | U | | 0.0122 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Naphthalene | U | | 0.0100 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Nitrobenzene | U | | 0.0139 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0591 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0301 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0133 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Phenanthrene | U | | 0.00790 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0124 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0505 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0136 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Diethyl phthalate | U | | 0.0132 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Dimethyl phthalate | U | | 0.0844 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0269 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Pyrene | 0.00898 | J | 0.00775 | 0.0398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0124 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0129 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2-Chlorophenol | U | | 0.0132 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0116 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0104 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0903 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0932 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2-Nitrophenol | U | | 0.0142 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 4-Nitrophenol | U | | 0.0124 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Pentachlorophenol | U | | 0.0107 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| Phenol | U | | 0.0160 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0128 | 0.398 | 1 | 06/14/2024 00:43 | WG2303251 |
| *(S) 2-Fluorophenol* | *72.6* | | | *12.0-120* | | *06/14/2024 00:43* | WG2303251 |
| *(S) Phenol-d5* | *66.7* | | | *10.0-120* | | *06/14/2024 00:43* | WG2303251 |
| *(S) Nitrobenzene-d5* | *53.3* | | | *10.0-122* | | *06/14/2024 00:43* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *65.0* | | | *15.0-120* | | *06/14/2024 00:43* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *66.9* | | | *10.0-127* | | *06/14/2024 00:43* | WG2303251 |
| *(S) p-Terphenyl-d14* | *72.1* | | | *10.0-120* | | *06/14/2024 00:43* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 82.0 | | 1 | 06/13/2024 07:36 | WG2304167 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Arsenic | 6.66 | | 0.632 | 2.44 | 1 | 07/01/2024 20:16 | WG2315127 |
| Lead | 26.5 | | 0.254 | 0.610 | 1 | 07/01/2024 20:16 | WG2315127 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.34 | B J | 1.25 | 3.77 | 25 | 06/13/2024 12:08 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.7* | | | *77.0-120* | | *06/13/2024 12:08* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0551 | 0.0754 | 1 | 06/13/2024 03:37 | WG2304049 |
| Acrylonitrile | U | | 0.00545 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| Benzene | 0.00241 | | 0.000704 | 0.00151 | 1 | 06/13/2024 03:37 | WG2304049 |
| Bromobenzene | U | | 0.00136 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| Bromodichloromethane | U | | 0.00109 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Bromoform | U | | 0.00176 | 0.0377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Bromomethane | U | | 0.00297 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| n-Butylbenzene | U | | 0.00792 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| sec-Butylbenzene | U | | 0.00434 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| tert-Butylbenzene | U | | 0.00294 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| Carbon tetrachloride | U | | 0.00135 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| Chlorobenzene | U | | 0.000317 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Chlorodibromomethane | U | | 0.000923 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Chloroethane | U | | 0.00256 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| Chloroform | U | | 0.00155 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Chloromethane | U | | 0.00656 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00130 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000679 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00588 | 0.0377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.000977 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Dibromomethane | U | | 0.00113 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2-Dichlorobenzene | 0.0225 | | 0.000641 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.000905 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,4-Dichlorobenzene | 0.0175 | | 0.00106 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00243 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,1-Dichloroethane | 0.00249 | J | 0.000741 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.000979 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.000914 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00111 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00157 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00214 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00122 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000756 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00114 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00172 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00208 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Di-isopropyl ether | U | | 0.000618 | 0.00151 | 1 | 06/13/2024 03:37 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.00674 | | 0.00111 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.00905 | 0.0377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Isopropylbenzene | 0.00261 | J | 0.000641 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| p-Isopropyltoluene | 0.00554 | J | 0.00385 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.0958 | 0.151 | 1 | 06/13/2024 03:37 | WG2304049 |
| Methylene Chloride | U | | 0.0100 | 0.0377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00344 | 0.0377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Methyl tert-butyl ether | U | | 0.000528 | 0.00151 | 1 | 06/13/2024 03:37 | WG2304049 |
| Naphthalene | 0.0300 | J3 | 0.00736 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| n-Propylbenzene | 0.0140 | | 0.00143 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| Styrene | U | | 0.000345 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00143 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00105 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00114 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Tetrachloroethene | U | | 0.00135 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Toluene | 0.0119 | | 0.00196 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0111 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00664 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00139 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.000901 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Trichloroethene | U | | 0.000881 | 0.00151 | 1 | 06/13/2024 03:37 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00125 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00244 | 0.0189 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2,4-Trimethylbenzene | 0.0869 | | 0.00238 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,2,3-Trimethylbenzene | 0.0228 | | 0.00238 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| 1,3,5-Trimethylbenzene | 0.0269 | | 0.00302 | 0.00754 | 1 | 06/13/2024 03:37 | WG2304049 |
| Vinyl chloride | U | | 0.00175 | 0.00377 | 1 | 06/13/2024 03:37 | WG2304049 |
| Xylenes, Total | 0.0637 | | 0.00133 | 0.00980 | 1 | 06/13/2024 03:37 | WG2304049 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/13/2024 03:37* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/13/2024 03:37* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *85.2* | | | *70.0-130* | | *06/13/2024 03:37* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.65 | J | 0.894 | 4.88 | 1 | 06/14/2024 18:06 | WG2304127 |
| C22-C32 Hydrocarbons | 6.33 | | 1.62 | 4.88 | 1 | 06/14/2024 18:06 | WG2304127 |
| C32-C40 Hydrocarbons | 4.21 | J | 1.62 | 4.88 | 1 | 06/14/2024 18:06 | WG2304127 |
| *(S) o-Terphenyl* | *73.4* | | | *18.0-148* | | *06/14/2024 18:06* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0132 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Acenaphthylene | U | | 0.0114 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Anthracene | U | | 0.0145 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Benzidine | U | | 0.153 | 4.08 | 2 | 06/14/2024 00:13 | WG2304128 |
| Benzo(a)anthracene | U | | 0.0143 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Benzo(b)fluoranthene | U | | 0.0151 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.0144 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.0149 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Benzo(a)pyrene | U | | 0.0151 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0244 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0268 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0351 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Bromophenyl-phenylether | U | | 0.0286 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.0143 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0283 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Chrysene | U | | 0.0161 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0226 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0240 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0246 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 1,4-Dichlorobenzene | U | | 0.0242 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0300 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0233 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0266 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Fluoranthene | U | | 0.0146 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Fluorene | U | | 0.0132 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Hexachlorobenzene | U | | 0.0288 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0273 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Hexachlorocyclopentadiene | U | J3 J6 | 0.0427 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Hexachloroethane | U | | 0.0320 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0229 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Isophorone | U | | 0.0249 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Naphthalene | U | | 0.0204 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Nitrobenzene | U | | 0.0283 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.121 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0615 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0271 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Phenanthrene | U | | 0.0161 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0254 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.103 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0278 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Diethyl phthalate | U | | 0.0268 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Dimethyl phthalate | U | | 0.172 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0549 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Pyrene | U | | 0.0159 | 0.0813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0254 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0264 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2-Chlorophenol | U | | 0.0268 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0237 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0212 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.184 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2,4-Dinitrophenol | U | J3 J6 | 0.190 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2-Nitrophenol | U | | 0.0290 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 4-Nitrophenol | U | | 0.0254 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Pentachlorophenol | U | | 0.0218 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| Phenol | U | | 0.0327 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0261 | 0.813 | 2 | 06/14/2024 00:13 | WG2304128 |
| *(S) 2-Fluorophenol* | *64.8* | | | *12.0-120* | | *06/14/2024 00:13* | WG2304128 |
| *(S) Phenol-d5* | *61.1* | | | *10.0-120* | | *06/14/2024 00:13* | WG2304128 |
| *(S) Nitrobenzene-d5* | *58.6* | | | *10.0-122* | | *06/14/2024 00:13* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *66.8* | | | *15.0-120* | | *06/14/2024 00:13* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *54.9* | | | *10.0-127* | | *06/14/2024 00:13* | WG2304128 |
| *(S) p-Terphenyl-d14* | *67.7* | | | *10.0-120* | | *06/14/2024 00:13* | WG2304128 |

**Sample Narrative:**

L1741921-39 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 82.6 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | | 1.22 | 3.68 | 25 | 06/06/2024 01:39 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/06/2024 01:39* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 J4 | 0.0537 | 0.0736 | 1 | 06/11/2024 22:57 | WG2303115 |
| Acrylonitrile | U | | 0.00532 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| Benzene | U | | 0.000688 | 0.00147 | 1 | 06/11/2024 22:57 | WG2303115 |
| Bromobenzene | U | | 0.00133 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| Bromodichloromethane | U | | 0.00107 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Bromoform | U | | 0.00172 | 0.0368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Bromomethane | U | | 0.00290 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| n-Butylbenzene | U | | 0.00773 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| sec-Butylbenzene | U | | 0.00424 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| tert-Butylbenzene | U | | 0.00287 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| Carbon tetrachloride | U | | 0.00132 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| Chlorobenzene | U | | 0.000309 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Chlorodibromomethane | U | | 0.000901 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Chloroethane | U | | 0.00250 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| Chloroform | U | | 0.00152 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Chloromethane | U | | 0.00640 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00127 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000663 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00574 | 0.0368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000954 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Dibromomethane | U | | 0.00110 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000626 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000883 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.00103 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00237 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000723 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000956 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000892 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.00108 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00153 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00209 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00119 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000738 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00111 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00168 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00203 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Di-isopropyl ether | U | | 0.000604 | 0.00147 | 1 | 06/11/2024 22:57 | WG2303115 |
| Ethylbenzene | U | | 0.00109 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00883 | 0.0368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Isopropylbenzene | U | | 0.000626 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00375 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0935 | 0.147 | 1 | 06/11/2024 22:57 | WG2303115 |
| Methylene Chloride | U | | 0.00978 | 0.0368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00336 | 0.0368 | 1 | 06/11/2024 22:57 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000515 | 0.00147 | 1 | 06/11/2024 22:57 | WG2303115 |
| Naphthalene | U | | 0.00719 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| n-Propylbenzene | U | | 0.00140 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| Styrene | U | | 0.000337 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00140 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00102 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00111 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Tetrachloroethene | U | | 0.00132 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Toluene | U | | 0.00191 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0108 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00648 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,1,1-Trichloroethane | U | | 0.00136 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000879 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Trichloroethene | U | | 0.000860 | 0.00147 | 1 | 06/11/2024 22:57 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00122 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00239 | 0.0184 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00233 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00233 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00294 | 0.00736 | 1 | 06/11/2024 22:57 | WG2303115 |
| Vinyl chloride | U | | 0.00171 | 0.00368 | 1 | 06/11/2024 22:57 | WG2303115 |
| Xylenes, Total | U | | 0.00130 | 0.00957 | 1 | 06/11/2024 22:57 | WG2303115 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/11/2024 22:57* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/11/2024 22:57* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *110* | | | *70.0-130* | | *06/11/2024 22:57* | WG2303115 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.887 | 4.84 | 1 | 06/13/2024 11:15 | WG2303234 |
| C22-C32 Hydrocarbons | U | | 1.61 | 4.84 | 1 | 06/13/2024 11:15 | WG2303234 |
| C32-C40 Hydrocarbons | U | | 1.61 | 4.84 | 1 | 06/13/2024 11:15 | WG2303234 |
| *(S) o-Terphenyl* | *40.5* | | | *18.0-148* | | *06/13/2024 11:15* | WG2303234 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 81.0 | | 1 | 06/13/2024 08:01 | WG2304168 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | | 1.27 | 3.83 | 25 | 06/13/2024 12:27 | WG2304284 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.1* | | | *77.0-120* | | *06/13/2024 12:27* | WG2304284 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0559 | 0.0765 | 1 | 06/13/2024 03:56 | WG2304049 |
| Acrylonitrile | U | | 0.00553 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| Benzene | U | | 0.000715 | 0.00153 | 1 | 06/13/2024 03:56 | WG2304049 |
| Bromobenzene | U | | 0.00138 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| Bromodichloromethane | U | | 0.00111 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Bromoform | U | | 0.00179 | 0.0383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Bromomethane | U | | 0.00302 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| n-Butylbenzene | U | | 0.00804 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| sec-Butylbenzene | U | | 0.00441 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| tert-Butylbenzene | U | | 0.00299 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| Carbon tetrachloride | U | | 0.00137 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| Chlorobenzene | U | | 0.000321 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Chlorodibromomethane | U | | 0.000937 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Chloroethane | U | | 0.00260 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| Chloroform | U | | 0.00158 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Chloromethane | U | | 0.00666 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000689 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00597 | 0.0383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.000992 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Dibromomethane | U | | 0.00115 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000651 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.000918 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00246 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000752 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.000993 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.000928 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00159 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00217 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00124 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000767 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00116 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00175 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00211 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Di-isopropyl ether | U | | 0.000628 | 0.00153 | 1 | 06/13/2024 03:56 | WG2304049 |
| Ethylbenzene | U | | 0.00113 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.00918 | 0.0383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Isopropylbenzene | U | | 0.000651 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00390 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.0972 | 0.153 | 1 | 06/13/2024 03:56 | WG2304049 |
| Methylene Chloride | U | | 0.0102 | 0.0383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00349 | 0.0383 | 1 | 06/13/2024 03:56 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000536 | 0.00153 | 1 | 06/13/2024 03:56 | WG2304049 |
| Naphthalene | U | J3 | 0.00747 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| n-Propylbenzene | U | | 0.00145 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| Styrene | U | | 0.000351 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00145 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Tetrachloroethene | U | | 0.00137 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Toluene | U | | 0.00199 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00674 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.000914 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Trichloroethene | U | | 0.000894 | 0.00153 | 1 | 06/13/2024 03:56 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00127 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00248 | 0.0191 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00242 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00242 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00306 | 0.00765 | 1 | 06/13/2024 03:56 | WG2304049 |
| Vinyl chloride | U | | 0.00178 | 0.00383 | 1 | 06/13/2024 03:56 | WG2304049 |
| Xylenes, Total | U | | 0.00135 | 0.00995 | 1 | 06/13/2024 03:56 | WG2304049 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/13/2024 03:56* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/13/2024 03:56* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *91.8* | | | *70.0-130* | | *06/13/2024 03:56* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.905 | 4.94 | 1 | 06/14/2024 01:46 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.64 | 4.94 | 1 | 06/14/2024 01:46 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.64 | 4.94 | 1 | 06/14/2024 01:46 | WG2304127 |
| *(S) o-Terphenyl* | *60.7* | | | *18.0-148* | | *06/14/2024 01:46* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00666 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Acenaphthylene | U | | 0.00579 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Anthracene | U | | 0.00733 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Benzidine | U | | 0.0773 | 2.06 | 1 | 06/13/2024 20:25 | WG2304128 |
| Benzo(a)anthracene | U | | 0.00725 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Benzo(b)fluoranthene | U | | 0.00767 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.00731 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.00752 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Benzo(a)pyrene | U | | 0.00765 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0124 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0136 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0178 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0145 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.00723 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0143 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Chrysene | U | | 0.00818 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0114 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0122 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0125 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0122 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0152 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0118 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0135 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Fluoranthene | U | | 0.00742 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Fluorene | U | | 0.00670 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Hexachlorobenzene | U | | 0.0146 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0138 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0216 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Hexachloroethane | U | | 0.0162 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0116 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Isophorone | U | | 0.0126 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Naphthalene | U | | 0.0103 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Nitrobenzene | U | | 0.0143 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.0610 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0311 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0137 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Phenanthrene | U | | 0.00817 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0128 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0521 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0141 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Diethyl phthalate | U | | 0.0136 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Dimethyl phthalate | U | | 0.0872 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0278 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Pyrene | U | | 0.00800 | 0.0411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0128 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0133 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2-Chlorophenol | U | | 0.0136 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0120 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0107 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0933 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.0962 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2-Nitrophenol | U | | 0.0147 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 4-Nitrophenol | U | | 0.0128 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Pentachlorophenol | U | | 0.0111 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| Phenol | U | | 0.0166 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0132 | 0.411 | 1 | 06/13/2024 20:25 | WG2304128 |
| *(S) 2-Fluorophenol* | *57.8* | | | *12.0-120* | | *06/13/2024 20:25* | WG2304128 |
| *(S) Phenol-d5* | *51.3* | | | *10.0-120* | | *06/13/2024 20:25* | WG2304128 |
| *(S) Nitrobenzene-d5* | *53.3* | | | *10.0-122* | | *06/13/2024 20:25* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *58.4* | | | *15.0-120* | | *06/13/2024 20:25* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *43.5* | | | *10.0-127* | | *06/13/2024 20:25* | WG2304128 |
| *(S) p-Terphenyl-d14* | *56.2* | | | *10.0-120* | | *06/13/2024 20:25* | WG2304128 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 73.1 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0655 | 0.0898 | 1 | 06/11/2024 23:16 | WG2303115 |
| Acrylonitrile | U | | 0.00648 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| Benzene | U | | 0.000838 | 0.00180 | 1 | 06/11/2024 23:16 | WG2303115 |
| Bromobenzene | U | | 0.00162 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| Bromodichloromethane | U | | 0.00130 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Bromoform | U | | 0.00210 | 0.0449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Bromomethane | U | | 0.00354 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| n-Butylbenzene | U | | 0.00942 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| sec-Butylbenzene | U | | 0.00517 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| tert-Butylbenzene | U | | 0.00350 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| Carbon tetrachloride | U | | 0.00161 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| Chlorobenzene | U | | 0.000377 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Chlorodibromomethane | U | | 0.00110 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Chloroethane | U | | 0.00305 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| Chloroform | U | | 0.00185 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Chloromethane | U | | 0.00781 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00155 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000808 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00700 | 0.0449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.00116 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Dibromomethane | U | | 0.00135 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000763 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.00108 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.00126 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00289 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000881 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.00117 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.00109 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.00132 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00187 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00255 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00145 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000899 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00136 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00205 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00248 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Di-isopropyl ether | U | | 0.000736 | 0.00180 | 1 | 06/11/2024 23:16 | WG2303115 |
| Ethylbenzene | U | | 0.00132 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.0108 | 0.0449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Isopropylbenzene | U | | 0.000763 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00458 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.114 | 0.180 | 1 | 06/11/2024 23:16 | WG2303115 |
| Methylene Chloride | U | | 0.0119 | 0.0449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00409 | 0.0449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Methyl tert-butyl ether | 0.00147 | J | 0.000628 | 0.00180 | 1 | 06/11/2024 23:16 | WG2303115 |
| Naphthalene | U | | 0.00876 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| n-Propylbenzene | U | | 0.00171 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| Styrene | U | | 0.000411 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00170 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00125 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00135 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Tetrachloroethene | U | | 0.00161 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Toluene | U | | 0.00233 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0132 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00790 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,1,1-Trichloroethane | U | | 0.00166 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.00107 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Trichloroethene | U | | 0.00105 | 0.00180 | 1 | 06/11/2024 23:16 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00148 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00291 | 0.0224 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00284 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00284 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00359 | 0.00898 | 1 | 06/11/2024 23:16 | WG2303115 |
| Vinyl chloride | U | | 0.00208 | 0.00449 | 1 | 06/11/2024 23:16 | WG2303115 |
| Xylenes, Total | U | | 0.00158 | 0.0117 | 1 | 06/11/2024 23:16 | WG2303115 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/11/2024 23:16* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/11/2024 23:16* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* | | *06/11/2024 23:16* | WG2303115 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 94.7 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0515 | | 0.0190 | 0.0422 | 1 | 06/05/2024 19:19 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 15.9 | | 0.575 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| Arsenic | 6.80 | | 0.547 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| Barium | 118 | | 0.0900 | 0.528 | 1 | 06/09/2024 19:44 | WG2299939 |
| Beryllium | 0.727 | | 0.0333 | 0.211 | 1 | 06/09/2024 19:44 | WG2299939 |
| Cadmium | U | | 0.0497 | 0.528 | 1 | 06/09/2024 19:44 | WG2299939 |
| Chromium | 22.3 | | 0.140 | 1.06 | 1 | 06/09/2024 19:44 | WG2299939 |
| Cobalt | 5.26 | | 0.0856 | 1.06 | 1 | 06/09/2024 19:44 | WG2299939 |
| Copper | 23.7 | | 0.422 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| Lead | 13.2 | | 0.220 | 0.528 | 1 | 06/09/2024 19:44 | WG2299939 |
| Molybdenum | 0.360 | J | 0.115 | 0.528 | 1 | 06/09/2024 19:44 | WG2299939 |
| Nickel | 22.4 | | 0.139 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| Selenium | 2.70 | | 0.807 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| Silver | 1.06 | | 0.134 | 1.06 | 1 | 06/10/2024 09:51 | WG2299939 |
| Thallium | U | | 0.416 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| Vanadium | 100 | | 0.534 | 2.11 | 1 | 06/09/2024 19:44 | WG2299939 |
| Zinc | 41.1 | | 0.879 | 5.28 | 1 | 06/09/2024 19:44 | WG2299939 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0125 | 0.0359 | 1 | 06/13/2024 12:52 | WG2303247 |
| PCB 1221 | U | | 0.0125 | 0.0359 | 1 | 06/13/2024 12:52 | WG2303247 |
| PCB 1232 | U | | 0.0125 | 0.0359 | 1 | 06/13/2024 12:52 | WG2303247 |
| PCB 1242 | U | | 0.0125 | 0.0359 | 1 | 06/13/2024 12:52 | WG2303247 |
| PCB 1248 | U | | 0.00779 | 0.0180 | 1 | 06/13/2024 12:52 | WG2303247 |
| PCB 1254 | U | | 0.00779 | 0.0180 | 1 | 06/13/2024 12:52 | WG2303247 |
| PCB 1260 | U | | 0.00779 | 0.0180 | 1 | 06/13/2024 12:52 | WG2303247 |
| *(S) Decachlorobiphenyl* | *67.7* | | | *10.0-135* | | *06/13/2024 12:52* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *59.6* | | | *10.0-139* | | *06/13/2024 12:52* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00569 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Acenaphthylene | U | | 0.00495 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Anthracene | U | | 0.00626 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Benzidine | U | | 0.0661 | 1.76 | 1 | 06/13/2024 23:05 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00620 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00656 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00625 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00643 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00654 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0106 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0116 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0152 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0124 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00618 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0123 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Chrysene | U | | 0.00699 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.00975 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0104 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0107 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0105 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0130 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0101 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0115 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Fluoranthene | U | | 0.00635 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Fluorene | U | | 0.00572 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Hexachlorobenzene | U | | 0.0125 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0118 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0185 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Hexachloroethane | U | | 0.0138 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00994 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Isophorone | U | | 0.0108 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Naphthalene | U | | 0.00883 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Nitrobenzene | U | | 0.0123 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0522 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0266 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0117 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Phenanthrene | U | | 0.00698 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0110 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0446 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0120 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Diethyl phthalate | U | | 0.0116 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Dimethyl phthalate | U | | 0.0746 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0238 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Pyrene | U | | 0.00684 | 0.0352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0114 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2-Chlorophenol | U | | 0.0116 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0102 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.00919 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0797 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0823 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2-Nitrophenol | U | | 0.0126 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 4-Nitrophenol | U | | 0.0110 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Pentachlorophenol | U | | 0.00946 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| Phenol | U | | 0.0142 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0113 | 0.352 | 1 | 06/13/2024 23:05 | WG2303251 |
| *(S) 2-Fluorophenol* | *65.0* | | | *12.0-120* | | *06/13/2024 23:05* | WG2303251 |
| *(S) Phenol-d5* | *60.3* | | | *10.0-120* | | *06/13/2024 23:05* | WG2303251 |
| *(S) Nitrobenzene-d5* | *47.4* | | | *10.0-122* | | *06/13/2024 23:05* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *57.4* | | | *15.0-120* | | *06/13/2024 23:05* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *58.2* | | | *10.0-127* | | *06/13/2024 23:05* | WG2303251 |
| *(S) p-Terphenyl-d14* | *63.2* | | | *10.0-120* | | *06/13/2024 23:05* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 93.2 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0284 | J | 0.0193 | 0.0429 | 1 | 06/05/2024 19:22 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 9.36 | | 0.584 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| Arsenic | 31.5 | | 0.556 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| Barium | 905 | | 0.0914 | 0.537 | 1 | 06/09/2024 19:46 | WG2299939 |
| Beryllium | 0.326 | | 0.0338 | 0.215 | 1 | 06/09/2024 19:46 | WG2299939 |
| Cadmium | 2.09 | | 0.0506 | 0.537 | 1 | 06/09/2024 19:46 | WG2299939 |
| Chromium | 29.2 | | 0.143 | 1.07 | 1 | 06/09/2024 19:46 | WG2299939 |
| Cobalt | 7.69 | | 0.0870 | 1.07 | 1 | 06/09/2024 19:46 | WG2299939 |
| Copper | 71.8 | | 0.429 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| Lead | 99.9 | | 0.223 | 0.537 | 1 | 06/09/2024 19:46 | WG2299939 |
| Molybdenum | 1.04 | | 0.117 | 0.537 | 1 | 06/09/2024 19:46 | WG2299939 |
| Nickel | 32.9 | | 0.142 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| Selenium | 3.37 | | 0.820 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| Silver | U | | 0.136 | 1.07 | 1 | 06/10/2024 09:53 | WG2299939 |
| Thallium | U | | 0.423 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| Vanadium | 50.8 | | 0.543 | 2.15 | 1 | 06/09/2024 19:46 | WG2299939 |
| Zinc | 243 | | 0.893 | 5.37 | 1 | 06/09/2024 19:46 | WG2299939 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 J4 | 0.0419 | 0.0574 | 1 | 06/11/2024 23:35 | WG2303115 |
| Acrylonitrile | U | | 0.00414 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| Benzene | U | | 0.000536 | 0.00115 | 1 | 06/11/2024 23:35 | WG2303115 |
| Bromobenzene | U | | 0.00103 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| Bromodichloromethane | U | | 0.000832 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Bromoform | U | | 0.00134 | 0.0287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Bromomethane | U | | 0.00226 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| n-Butylbenzene | U | | 0.00603 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| sec-Butylbenzene | U | | 0.00331 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| tert-Butylbenzene | U | | 0.00224 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| Carbon tetrachloride | U | | 0.00103 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| Chlorobenzene | U | | 0.000241 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Chlorodibromomethane | U | | 0.000703 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Chloroethane | U | | 0.00195 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| Chloroform | U | | 0.00118 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Chloromethane | U | | 0.00499 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| 2-Chlorotoluene | U | | 0.000993 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000517 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00448 | 0.0287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000744 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Dibromomethane | U | | 0.000861 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000488 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000689 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.000804 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00185 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000564 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000745 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000696 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.000843 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00119 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00163 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.000929 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000575 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.000869 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00131 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00158 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Di-isopropyl ether | U | | 0.000471 | 0.00115 | 1 | 06/11/2024 23:35 | WG2303115 |
| Ethylbenzene | U | | 0.000846 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00689 | 0.0287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Isopropylbenzene | U | | 0.000488 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00293 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0729 | 0.115 | 1 | 06/11/2024 23:35 | WG2303115 |
| Methylene Chloride | U | | 0.00762 | 0.0287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00262 | 0.0287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Methyl tert-butyl ether | U | | 0.000402 | 0.00115 | 1 | 06/11/2024 23:35 | WG2303115 |
| Naphthalene | U | | 0.00560 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| n-Propylbenzene | U | | 0.00109 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| Styrene | U | | 0.000263 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00109 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000798 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000866 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Tetrachloroethene | U | | 0.00103 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Toluene | 0.00217 | J | 0.00149 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.00841 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00505 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,1,1-Trichloroethane | 0.00855 | | 0.00106 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000685 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Trichloroethene | U | | 0.000670 | 0.00115 | 1 | 06/11/2024 23:35 | WG2303115 |
| Trichlorofluoromethane | U | | 0.000949 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00186 | 0.0143 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00181 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00181 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00230 | 0.00574 | 1 | 06/11/2024 23:35 | WG2303115 |
| Vinyl chloride | U | | 0.00133 | 0.00287 | 1 | 06/11/2024 23:35 | WG2303115 |
| Xylenes, Total | U | | 0.00101 | 0.00746 | 1 | 06/11/2024 23:35 | WG2303115 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/11/2024 23:35* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/11/2024 23:35* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *109* | | | *70.0-130* | | *06/11/2024 23:35* | WG2303115 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00579 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Acenaphthylene | U | | 0.00503 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Anthracene | U | | 0.00636 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Benzidine | U | | 0.0672 | 1.79 | 1 | 06/13/2024 20:14 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00630 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00667 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00635 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00654 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | U | | 0.00664 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0107 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0118 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0155 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0126 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00628 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0125 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Chrysene | U | | 0.00711 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.00991 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0106 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0108 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0106 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0132 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0103 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0117 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Fluoranthene | U | | 0.00645 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Fluorene | U | | 0.00582 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Hexachlorobenzene | U | | 0.0127 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0120 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0188 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Hexachloroethane | U | | 0.0141 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0101 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Isophorone | U | | 0.0109 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Naphthalene | U | | 0.00897 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Nitrobenzene | U | | 0.0125 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0530 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0270 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0119 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Phenanthrene | U | | 0.00709 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0112 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0453 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0122 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Diethyl phthalate | U | | 0.0118 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Dimethyl phthalate | U | | 0.0758 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0241 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Pyrene | U | | 0.00696 | 0.0357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0112 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0116 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2-Chlorophenol | U | | 0.0118 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0104 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.00934 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0810 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0836 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2-Nitrophenol | U | | 0.0128 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 4-Nitrophenol | U | | 0.0112 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Pentachlorophenol | U | | 0.00962 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| Phenol | U | | 0.0144 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0115 | 0.357 | 1 | 06/13/2024 20:14 | WG2303251 |
| *(S) 2-Fluorophenol* | *78.9* | | | *12.0-120* | | *06/13/2024 20:14* | WG2303251 |
| *(S) Phenol-d5* | *75.0* | | | *10.0-120* | | *06/13/2024 20:14* | WG2303251 |
| *(S) Nitrobenzene-d5* | *60.2* | | | *10.0-122* | | *06/13/2024 20:14* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *70.7* | | | *15.0-120* | | *06/13/2024 20:14* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *71.9* | | | *10.0-127* | | *06/13/2024 20:14* | WG2303251 |
| *(S) p-Terphenyl-d14* | *80.6* | | | *10.0-120* | | *06/13/2024 20:14* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.9 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0225 | J | 0.0212 | 0.0471 | 1 | 06/05/2024 19:24 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 8.56 | | 0.641 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| Arsenic | 59.5 | | 0.610 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| Barium | 1550 | | 0.100 | 0.589 | 1 | 06/09/2024 08:52 | WG2299945 |
| Beryllium | 0.291 | | 0.0371 | 0.236 | 1 | 06/09/2024 08:52 | WG2299945 |
| Cadmium | 6.09 | | 0.0555 | 0.589 | 1 | 06/09/2024 08:52 | WG2299945 |
| Chromium | 52.0 | | 0.157 | 1.18 | 1 | 06/09/2024 08:52 | WG2299945 |
| Cobalt | 43.3 | | 0.0956 | 1.18 | 1 | 06/09/2024 08:52 | WG2299945 |
| Copper | 82.2 | | 0.471 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| Lead | 150 | | 0.245 | 0.589 | 1 | 06/09/2024 08:52 | WG2299945 |
| Molybdenum | 1.48 | | 0.128 | 0.589 | 1 | 06/09/2024 08:52 | WG2299945 |
| Nickel | 104 | | 0.156 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| Selenium | 4.43 | | 0.900 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| Silver | 0.437 | B J | 0.150 | 1.18 | 1 | 06/09/2024 08:52 | WG2299945 |
| Thallium | U | | 0.464 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| Vanadium | 59.2 | | 0.596 | 2.36 | 1 | 06/09/2024 08:52 | WG2299945 |
| Zinc | 283 | | 0.980 | 5.89 | 1 | 06/09/2024 08:52 | WG2299945 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.21 | J | 1.13 | 3.42 | 25 | 06/06/2024 02:00 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *105* | | | *77.0-120* | | *06/06/2024 02:00* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0499 | 0.0684 | 1 | 06/11/2024 23:54 | WG2303115 |
| Acrylonitrile | U | | 0.00494 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| Benzene | U | | 0.000639 | 0.00137 | 1 | 06/11/2024 23:54 | WG2303115 |
| Bromobenzene | U | | 0.00123 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| Bromodichloromethane | U | | 0.000991 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Bromoform | U | | 0.00160 | 0.0342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Bromomethane | U | | 0.00269 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| n-Butylbenzene | U | | 0.00718 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| sec-Butylbenzene | U | | 0.00394 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| tert-Butylbenzene | U | | 0.00267 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| Carbon tetrachloride | U | | 0.00123 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| Chlorobenzene | U | | 0.000287 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Chlorodibromomethane | U | | 0.000837 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Chloroethane | U | | 0.00232 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| Chloroform | U | | 0.00141 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Chloromethane | U | | 0.00595 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00118 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000615 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00533 | 0.0342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.000886 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Dibromomethane | U | | 0.00103 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000581 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.000820 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.000957 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00220 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000671 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.000887 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.000829 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.00100 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00142 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00194 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00111 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000685 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00104 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00156 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00189 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Di-isopropyl ether | U | | 0.000561 | 0.00137 | 1 | 06/11/2024 23:54 | WG2303115 |
| Ethylbenzene | U | | 0.00101 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.00820 | 0.0342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Isopropylbenzene | U | | 0.000581 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00349 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.0868 | 0.137 | 1 | 06/11/2024 23:54 | WG2303115 |
| Methylene Chloride | U | | 0.00908 | 0.0342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00312 | 0.0342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Methyl tert-butyl ether | U | | 0.000479 | 0.00137 | 1 | 06/11/2024 23:54 | WG2303115 |
| Naphthalene | U | | 0.00667 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| n-Propylbenzene | U | | 0.00130 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| Styrene | U | | 0.000313 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00130 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000950 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00103 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Tetrachloroethene | U | | 0.00123 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Toluene | 0.00209 | J | 0.00178 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0100 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00602 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,1,1-Trichloroethane | 0.0130 | | 0.00126 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.000816 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Trichloroethene | U | | 0.000799 | 0.00137 | 1 | 06/11/2024 23:54 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00113 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00222 | 0.0171 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00216 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00216 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00273 | 0.00684 | 1 | 06/11/2024 23:54 | WG2303115 |
| Vinyl chloride | U | | 0.00159 | 0.00342 | 1 | 06/11/2024 23:54 | WG2303115 |
| Xylenes, Total | 0.00129 | J | 0.00120 | 0.00889 | 1 | 06/11/2024 23:54 | WG2303115 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/11/2024 23:54* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/11/2024 23:54* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* | | *06/11/2024 23:54* | WG2303115 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 17.3 | 94.3 | 20 | 06/13/2024 20:17 | WG2303234 |
| C22-C32 Hydrocarbons | 134 | | 31.3 | 94.3 | 20 | 06/13/2024 20:17 | WG2303234 |
| C32-C40 Hydrocarbons | 153 | | 31.3 | 94.3 | 20 | 06/13/2024 20:17 | WG2303234 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *06/13/2024 20:17* | WG2303234 |

Sample Narrative:

L1741921-45 WG2303234: Cannot run at lower dilution due to viscosity of extract.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00635 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Acenaphthylene | U | | 0.00553 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Anthracene | U | | 0.00699 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Benzidine | U | | 0.0738 | 1.97 | 1 | 06/13/2024 23:29 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00692 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00732 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00698 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00718 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00729 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0118 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0130 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0170 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0138 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00689 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0137 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Chrysene | U | | 0.00780 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0109 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0116 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0119 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0117 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0145 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0113 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0128 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Fluoranthene | U | | 0.00708 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Fluorene | U | | 0.00639 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Hexachlorobenzene | U | | 0.0139 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0132 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0206 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Hexachloroethane | U | | 0.0154 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0111 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Isophorone | U | | 0.0120 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Naphthalene | U | | 0.00985 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Nitrobenzene | U | | 0.0137 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0582 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0297 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0131 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Phenanthrene | U | | 0.00779 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0123 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0497 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0134 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Diethyl phthalate | U | | 0.0130 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Dimethyl phthalate | U | | 0.0832 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0265 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Pyrene | U | | 0.00764 | 0.0392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0123 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.0127 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2-Chlorophenol | U | | 0.0130 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0114 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0103 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0890 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0918 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2-Nitrophenol | U | | 0.0140 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 4-Nitrophenol | U | | 0.0123 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Pentachlorophenol | U | | 0.0106 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| Phenol | U | | 0.0158 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0126 | 0.392 | 1 | 06/13/2024 23:29 | WG2303251 |
| *(S) 2-Fluorophenol* | *52.9* | | | *12.0-120* | | *06/13/2024 23:29* | WG2303251 |
| *(S) Phenol-d5* | *48.8* | | | *10.0-120* | | *06/13/2024 23:29* | WG2303251 |
| *(S) Nitrobenzene-d5* | *40.5* | | | *10.0-122* | | *06/13/2024 23:29* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *48.5* | | | *15.0-120* | | *06/13/2024 23:29* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *48.2* | | | *10.0-127* | | *06/13/2024 23:29* | WG2303251 |
| *(S) p-Terphenyl-d14* | *53.4* | | | *10.0-120* | | *06/13/2024 23:29* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 69.2 | | 1 | 06/13/2024 08:01 | WG2304168 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Arsenic | 13.5 | | 0.749 | 2.89 | 1 | 07/01/2024 20:18 | WG2315127 |
| Cobalt | 12.4 | | 0.117 | 1.45 | 1 | 07/01/2024 20:18 | WG2315127 |
| Nickel | 56.5 | | 0.191 | 2.89 | 1 | 07/01/2024 20:18 | WG2315127 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 5.13 | B J | 1.83 | 5.50 | 30.3 | 06/13/2024 03:17 | WG2304093 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *06/13/2024 03:17* | WG2304093 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0802 | 0.110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Acrylonitrile | U | | 0.00793 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Benzene | U | | 0.00102 | 0.00219 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Bromobenzene | U | | 0.00198 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Bromodichloromethane | U | | 0.00159 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Bromoform | U | | 0.00258 | 0.0550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Bromomethane | U | | 0.00432 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| n-Butylbenzene | U | | 0.0115 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| sec-Butylbenzene | U | | 0.00631 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| tert-Butylbenzene | U | | 0.00428 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Carbon tetrachloride | U | | 0.00198 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Chlorobenzene | U | | 0.000461 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Chlorodibromomethane | U | | 0.00134 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Chloroethane | U | | 0.00374 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Chloroform | U | | 0.00227 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Chloromethane | U | | 0.00954 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00190 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000987 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00856 | 0.0550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.00142 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Dibromomethane | U | | 0.00165 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000932 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.00132 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00154 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00354 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.00108 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.00142 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.00133 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| cis-1,2-Dichloroethene | 0.00209 | J | 0.00161 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00229 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00312 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00178 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.00110 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00166 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00250 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00303 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | U | | 0.000900 | 0.00219 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Ethylbenzene | U | | 0.00162 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.0132 | 0.0550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Isopropylbenzene | U | | 0.000932 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00560 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.139 | 0.219 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Methylene Chloride | U | | 0.0146 | 0.0550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00501 | 0.0550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Methyl tert-butyl ether | U | | 0.000767 | 0.00219 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Naphthalene | U | J3 | 0.0107 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| n-Propylbenzene | U | | 0.00209 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Styrene | U | | 0.000502 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00209 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00153 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00165 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Tetrachloroethene | U | | 0.00196 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Toluene | U | | 0.00285 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0161 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00965 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00203 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.00131 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Trichloroethene | U | | 0.00128 | 0.00219 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00181 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00355 | 0.0274 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00346 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00346 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00439 | 0.0110 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Vinyl chloride | U | | 0.00254 | 0.00550 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| Xylenes, Total | U | | 0.00192 | 0.0143 | 1.21 | 06/13/2024 04:15 | WG2304049 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/13/2024 04:15* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/13/2024 04:15* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *88.4* | | | *70.0-130* | | *06/13/2024 04:15* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 90.5 | J | 42.3 | 231 | 40 | 06/14/2024 18:20 | WG2304127 |
| C22-C32 Hydrocarbons | 451 | | 76.9 | 231 | 40 | 06/14/2024 18:20 | WG2304127 |
| C32-C40 Hydrocarbons | 318 | | 76.9 | 231 | 40 | 06/14/2024 18:20 | WG2304127 |
| *(S) o-Terphenyl* | *72.9* | J7 | | *18.0-148* | | *06/14/2024 18:20* | WG2304127 |

Sample Narrative:

L1741921-46 WG2304127: Cannot run at lower dilution due to viscosity of extract.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0929 | J | 0.0779 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Acenaphthylene | U | | 0.0678 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Anthracene | 0.168 | J | 0.0857 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Benzidine | U | | 0.905 | 24.1 | 10 | 06/13/2024 22:51 | WG2304128 |
| Benzo(a)anthracene | 0.502 | | 0.0848 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Benzo(b)fluoranthene | 0.896 | | 0.0898 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Benzo(k)fluoranthene | 0.306 | J | 0.0856 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Benzo(g,h,i)perylene | 0.484 | | 0.0880 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.705 | | 0.0895 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.145 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.159 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.208 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.169 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.0846 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.168 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Chrysene | 0.546 | | 0.0957 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.133 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.143 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.146 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 1,4-Dichlorobenzene | U | | 0.143 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.178 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.138 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.158 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Fluoranthene | 0.821 | | 0.0869 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Fluorene | U | | 0.0783 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Hexachlorobenzene | U | | 0.171 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.162 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.253 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Hexachloroethane | U | | 0.189 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | 0.474 | J | 0.136 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Isophorone | U | | 0.147 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Naphthalene | U | | 0.121 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Nitrobenzene | U | | 0.168 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.714 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.364 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.160 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Phenanthrene | 0.617 | | 0.0955 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| Benzylbutyl phthalate | 0.314 | J | 0.150 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | 2.37 | J | 0.610 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.165 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Diethyl phthalate | U | | 0.159 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Dimethyl phthalate | U | | 1.02 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.325 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Pyrene | 1.12 | | 0.0937 | 0.481 | 10 | 06/13/2024 22:51 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.150 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.156 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2-Chlorophenol | U | | 0.159 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.140 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.126 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 1.09 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2,4-Dinitrophenol | U | | 1.13 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2-Nitrophenol | U | | 0.172 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 4-Nitrophenol | U | | 0.150 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Pentachlorophenol | U | | 0.130 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| Phenol | U | | 0.194 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.155 | 4.81 | 10 | 06/13/2024 22:51 | WG2304128 |
| *(S) 2-Fluorophenol* | *61.0* | | | *12.0-120* | | *06/13/2024 22:51* | WG2304128 |
| *(S) Phenol-d5* | *56.5* | | | *10.0-120* | | *06/13/2024 22:51* | WG2304128 |
| *(S) Nitrobenzene-d5* | *57.3* | | | *10.0-122* | | *06/13/2024 22:51* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *70.0* | | | *15.0-120* | | *06/13/2024 22:51* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *46.9* | | | *10.0-127* | | *06/13/2024 22:51* | WG2304128 |
| *(S) p-Terphenyl-d14* | *66.6* | | | *10.0-120* | | *06/13/2024 22:51* | WG2304128 |

**Sample Narrative:**

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1741921-46 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.0 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.83 | J | 1.41 | 4.24 | 25.5 | 06/06/2024 02:22 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/06/2024 02:22* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 J4 | 0.0618 | 0.0847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Acrylonitrile | U | | 0.00611 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Benzene | U | | 0.000791 | 0.00169 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Bromobenzene | U | | 0.00152 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Bromodichloromethane | U | | 0.00123 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Bromoform | U | | 0.00198 | 0.0424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Bromomethane | U | | 0.00334 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| n-Butylbenzene | U | | 0.00889 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| sec-Butylbenzene | U | | 0.00488 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| tert-Butylbenzene | U | | 0.00331 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Carbon tetrachloride | U | | 0.00152 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Chlorobenzene | U | | 0.000355 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Chlorodibromomethane | U | | 0.00104 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Chloroethane | U | | 0.00287 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Chloroform | U | | 0.00174 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Chloromethane | U | | 0.00737 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 2-Chlorotoluene | U | | 0.00146 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 4-Chlorotoluene | U | | 0.000762 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00661 | 0.0424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2-Dibromoethane | U | | 0.00110 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Dibromomethane | U | | 0.00127 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2-Dichlorobenzene | U | | 0.000719 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,3-Dichlorobenzene | U | | 0.00102 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,4-Dichlorobenzene | U | | 0.00119 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Dichlorodifluoromethane | U | | 0.00272 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,1-Dichloroethane | U | | 0.000832 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2-Dichloroethane | U | | 0.00110 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,1-Dichloroethene | U | | 0.00103 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| cis-1,2-Dichloroethene | U | | 0.00124 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| trans-1,2-Dichloroethene | U | | 0.00176 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2-Dichloropropane | U | | 0.00241 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,1-Dichloropropene | U | | 0.00137 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,3-Dichloropropane | U | | 0.000849 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| cis-1,3-Dichloropropene | U | | 0.00128 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| trans-1,3-Dichloropropene | U | | 0.00193 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 2,2-Dichloropropane | U | | 0.00234 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Di-isopropyl ether | U | | 0.000694 | 0.00169 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Ethylbenzene | U | | 0.00125 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Hexachloro-1,3-butadiene | U | | 0.0102 | 0.0424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Isopropylbenzene | U | | 0.000719 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| p-Isopropyltoluene | U | | 0.00432 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 2-Butanone (MEK) | U | J3 | 0.108 | 0.169 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Methylene Chloride | U | | 0.0112 | 0.0424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00387 | 0.0424 | 1.02 | 06/12/2024 00:13 | WG2303115 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000593 | 0.00169 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Naphthalene | U | | 0.00827 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| n-Propylbenzene | U | | 0.00161 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Styrene | U | | 0.000389 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00161 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00118 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.00128 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Tetrachloroethene | U | | 0.00152 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Toluene | U | | 0.00221 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2,3-Trichlorobenzene | U | | 0.0124 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2,4-Trichlorobenzene | U | | 0.00746 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,1,1-Trichloroethane | 0.00165 | J | 0.00156 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,1,2-Trichloroethane | U | | 0.00101 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Trichloroethene | U | | 0.000990 | 0.00169 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Trichlorofluoromethane | U | | 0.00140 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2,3-Trichloropropane | U | J4 | 0.00274 | 0.0213 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2,4-Trimethylbenzene | U | | 0.00267 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,2,3-Trimethylbenzene | U | | 0.00267 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| 1,3,5-Trimethylbenzene | U | | 0.00339 | 0.00847 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Vinyl chloride | U | | 0.00196 | 0.00424 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| Xylenes, Total | U | | 0.00149 | 0.0110 | 1.02 | 06/12/2024 00:13 | WG2303115 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/12/2024 00:13* | WG2303115 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *67.0-138* | | *06/12/2024 00:13* | WG2303115 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *06/12/2024 00:13* | WG2303115 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 132 | | 4.90 | 26.7 | 5 | 06/13/2024 14:52 | WG2303234 |
| C22-C32 Hydrocarbons | 275 | | 8.87 | 26.7 | 5 | 06/13/2024 14:52 | WG2303234 |
| C32-C40 Hydrocarbons | 124 | | 8.87 | 26.7 | 5 | 06/13/2024 14:52 | WG2303234 |
| *(S) o-Terphenyl* | *69.2* | | | *18.0-148* | | *06/13/2024 14:52* | WG2303234 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 89.8 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.137 | | 0.0201 | 0.0446 | 1 | 06/05/2024 19:31 | WG2297785 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 7.95 | | 0.606 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| Arsenic | 5.14 | | 0.577 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| Barium | 161 | | 0.0949 | 0.557 | 1 | 06/09/2024 08:54 | WG2299945 |
| Beryllium | 0.186 | J | 0.0351 | 0.223 | 1 | 06/09/2024 08:54 | WG2299945 |
| Cadmium | 1.12 | | 0.0525 | 0.557 | 1 | 06/09/2024 08:54 | WG2299945 |
| Chromium | 26.8 | | 0.148 | 1.11 | 1 | 06/09/2024 08:54 | WG2299945 |
| Cobalt | 6.54 | | 0.0903 | 1.11 | 1 | 06/09/2024 08:54 | WG2299945 |
| Copper | 55.8 | | 0.446 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| Lead | 244 | | 0.232 | 0.557 | 1 | 06/09/2024 08:54 | WG2299945 |
| Molybdenum | 1.13 | | 0.121 | 0.557 | 1 | 06/09/2024 08:54 | WG2299945 |
| Nickel | 25.9 | | 0.147 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| Selenium | U | | 0.851 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| Silver | 0.374 | B J | 0.141 | 1.11 | 1 | 06/09/2024 08:54 | WG2299945 |
| Thallium | U | | 0.439 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| Vanadium | 27.9 | | 0.564 | 2.23 | 1 | 06/09/2024 08:54 | WG2299945 |
| Zinc | 250 | | 0.927 | 5.57 | 1 | 06/09/2024 08:54 | WG2299945 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0131 | 0.0379 | 1 | 06/13/2024 13:01 | WG2303247 |
| PCB 1221 | U | | 0.0131 | 0.0379 | 1 | 06/13/2024 13:01 | WG2303247 |
| PCB 1232 | U | | 0.0131 | 0.0379 | 1 | 06/13/2024 13:01 | WG2303247 |
| PCB 1242 | U | | 0.0131 | 0.0379 | 1 | 06/13/2024 13:01 | WG2303247 |
| PCB 1248 | U | | 0.00822 | 0.0189 | 1 | 06/13/2024 13:01 | WG2303247 |
| PCB 1254 | U | | 0.00822 | 0.0189 | 1 | 06/13/2024 13:01 | WG2303247 |
| PCB 1260 | 0.0456 | P | 0.00822 | 0.0189 | 1 | 06/19/2024 01:04 | WG2303247 |
| *(S) Decachlorobiphenyl* | *65.6* | | | *10.0-135* | | *06/19/2024 01:04* | WG2303247 |
| *(S) Decachlorobiphenyl* | *65.2* | | | *10.0-135* | | *06/13/2024 13:01* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *60.7* | | | *10.0-139* | | *06/13/2024 13:01* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *62.2* | | | *10.0-139* | | *06/19/2024 01:04* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0120 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Acenaphthylene | U | | 0.0104 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Anthracene | U | | 0.0133 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Benzidine | U | | 0.139 | 3.72 | 2 | 06/14/2024 02:21 | WG2303251 |
| Benzo(a)anthracene | U | | 0.0130 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Benzo(b)fluoranthene | 0.0174 | J | 0.0138 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.0131 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.0136 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Benzo(a)pyrene | U | | 0.0138 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0223 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0245 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0321 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0261 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.0130 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0258 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Chrysene | U | | 0.0147 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0206 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0219 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0225 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0221 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0274 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0213 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0243 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Fluoranthene | 0.0138 | J | 0.0134 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Fluorene | U | | 0.0120 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Hexachlorobenzene | U | | 0.0263 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0250 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0390 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Hexachloroethane | U | | 0.0292 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0209 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Isophorone | U | | 0.0227 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Naphthalene | U | | 0.0186 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Nitrobenzene | U | | 0.0258 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.110 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0561 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0247 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Phenanthrene | U | | 0.0147 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0232 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0940 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0254 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Diethyl phthalate | U | | 0.0245 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Dimethyl phthalate | U | | 0.157 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0501 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Pyrene | 0.0204 | J | 0.0145 | 0.0742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0232 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0241 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2-Chlorophenol | U | | 0.0245 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0216 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0194 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.168 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.174 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2-Nitrophenol | U | | 0.0265 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 4-Nitrophenol | U | | 0.0232 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Pentachlorophenol | U | | 0.0199 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| Phenol | U | | 0.0299 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0238 | 0.742 | 2 | 06/14/2024 02:21 | WG2303251 |
| *(S) 2-Fluorophenol* | *69.5* | | | *12.0-120* | | *06/14/2024 02:21* | WG2303251 |
| *(S) Phenol-d5* | *67.8* | | | *10.0-120* | | *06/14/2024 02:21* | WG2303251 |
| *(S) Nitrobenzene-d5* | *55.0* | | | *10.0-122* | | *06/14/2024 02:21* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *70.9* | | | *15.0-120* | | *06/14/2024 02:21* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *75.3* | | | *10.0-127* | | *06/14/2024 02:21* | WG2303251 |
| *(S) p-Terphenyl-d14* | *81.4* | | | *10.0-120* | | *06/14/2024 02:21* | WG2303251 |

**Sample Narrative:**

L1741921-48 WG2303251: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 79.0 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.151 | | 0.0228 | 0.0507 | 1 | 06/04/2024 09:47 | WG2297782 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 3.05 | | 0.689 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| Arsenic | U | | 0.656 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| Barium | 25.4 | | 0.108 | 0.633 | 1 | 06/09/2024 08:56 | WG2299945 |
| Beryllium | U | | 0.0399 | 0.253 | 1 | 06/09/2024 08:56 | WG2299945 |
| Cadmium | 0.193 | J | 0.0596 | 0.633 | 1 | 06/09/2024 08:56 | WG2299945 |
| Chromium | 75.2 | | 0.168 | 1.27 | 1 | 06/09/2024 08:56 | WG2299945 |
| Cobalt | 24.5 | | 0.103 | 1.27 | 1 | 06/09/2024 08:56 | WG2299945 |
| Copper | 127 | | 0.507 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| Lead | 20.4 | | 0.263 | 0.633 | 1 | 06/09/2024 08:56 | WG2299945 |
| Molybdenum | U | | 0.138 | 0.633 | 1 | 06/09/2024 08:56 | WG2299945 |
| Nickel | 54.5 | | 0.167 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| Selenium | 0.973 | J | 0.968 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| Silver | 1.00 | B J | 0.161 | 1.27 | 1 | 06/09/2024 08:56 | WG2299945 |
| Thallium | U | | 0.499 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| Vanadium | 36.7 | | 0.641 | 2.53 | 1 | 06/09/2024 08:56 | WG2299945 |
| Zinc | 53.9 | | 1.05 | 6.33 | 1 | 06/09/2024 08:56 | WG2299945 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0569 | 0.0780 | 1 | 06/11/2024 19:26 | WG2303036 |
| Acrylonitrile | U | | 0.00563 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| Benzene | 0.00153 | J | 0.000728 | 0.00156 | 1 | 06/11/2024 19:26 | WG2303036 |
| Bromobenzene | U | | 0.00140 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| Bromodichloromethane | U | | 0.00113 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Bromoform | U | | 0.00182 | 0.0390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Bromomethane | U | | 0.00307 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| n-Butylbenzene | U | | 0.00819 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| sec-Butylbenzene | U | | 0.00449 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| tert-Butylbenzene | U | | 0.00304 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| Carbon tetrachloride | U | | 0.00140 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| Chlorobenzene | U | | 0.000327 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Chlorodibromomethane | U | | 0.000954 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Chloroethane | U | | 0.00265 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| Chloroform | U | | 0.00161 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Chloromethane | U | | 0.00678 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| 2-Chlorotoluene | U | | 0.00135 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000702 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00608 | 0.0390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.00101 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Dibromomethane | U | | 0.00117 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000663 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.000936 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.00109 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00251 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000766 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.00101 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.000945 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.00114 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00162 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00221 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.00126 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000781 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.00118 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00178 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00215 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Di-isopropyl ether | U | | 0.000639 | 0.00156 | 1 | 06/11/2024 19:26 | WG2303036 |
| Ethylbenzene | 0.00135 | J | 0.00115 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.00936 | 0.0390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Isopropylbenzene | U | | 0.000663 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| p-Isopropyltoluene | U | | 0.00398 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.0990 | 0.156 | 1 | 06/11/2024 19:26 | WG2303036 |
| Methylene Chloride | U | | 0.0104 | 0.0390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00356 | 0.0390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Methyl tert-butyl ether | U | | 0.000546 | 0.00156 | 1 | 06/11/2024 19:26 | WG2303036 |
| Naphthalene | 0.0644 | | 0.00761 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| n-Propylbenzene | U | | 0.00148 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| Styrene | U | | 0.000357 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00148 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00108 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00118 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Tetrachloroethene | U | | 0.00140 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Toluene | 0.00756 | J | 0.00203 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.0114 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00686 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00144 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.000931 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Trichloroethene | U | | 0.000911 | 0.00156 | 1 | 06/11/2024 19:26 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00129 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00253 | 0.0195 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2,4-Trimethylbenzene | 0.00504 | J | 0.00246 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,2,3-Trimethylbenzene | 0.00390 | J | 0.00246 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.00312 | 0.00780 | 1 | 06/11/2024 19:26 | WG2303036 |
| Vinyl chloride | U | | 0.00181 | 0.00390 | 1 | 06/11/2024 19:26 | WG2303036 |
| Xylenes, Total | 0.0120 | | 0.00137 | 0.0101 | 1 | 06/11/2024 19:26 | WG2303036 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/11/2024 19:26* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/11/2024 19:26* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *88.3* | | | *70.0-130* | | *06/11/2024 19:26* | WG2303036 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0149 | 0.0431 | 1 | 07/01/2024 23:43 | WG2314791 |
| PCB 1221 | U | | 0.0149 | 0.0431 | 1 | 07/01/2024 23:43 | WG2314791 |
| PCB 1232 | U | | 0.0149 | 0.0431 | 1 | 07/01/2024 23:43 | WG2314791 |
| PCB 1242 | U | | 0.0149 | 0.0431 | 1 | 07/01/2024 23:43 | WG2314791 |
| PCB 1248 | U | | 0.00935 | 0.0215 | 1 | 07/01/2024 23:43 | WG2314791 |
| PCB 1254 | U | | 0.00935 | 0.0215 | 1 | 07/01/2024 23:43 | WG2314791 |
| PCB 1260 | 0.00969 | J | 0.00935 | 0.0215 | 1 | 07/01/2024 23:43 | WG2314791 |
| *(S) Decachlorobiphenyl* | *75.9* | | | *10.0-135* | | *07/01/2024 23:43* | WG2314791 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) Tetrachloro-m-xylene* | *91.8* | | | *10.0-139* | | *07/01/2024 23:43* | WG2314791 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00683 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Acenaphthylene | U | | 0.00594 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Anthracene | U | | 0.00751 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Benzidine | U | | 0.0793 | 2.11 | 1 | 06/14/2024 00:18 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00743 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Benzo(b)fluoranthene | 0.00995 | J | 0.00786 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00750 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00771 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00784 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0127 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0139 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0182 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0148 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00741 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0147 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Chrysene | U | | 0.00838 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0117 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0125 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0128 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0126 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0156 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0121 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0138 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Fluoranthene | 0.0117 | J | 0.00761 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Fluorene | U | | 0.00686 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Hexachlorobenzene | U | | 0.0149 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0142 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0222 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Hexachloroethane | U | | 0.0166 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0119 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Isophorone | U | | 0.0129 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Naphthalene | U | | 0.0106 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Nitrobenzene | U | | 0.0147 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0626 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0319 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0141 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Phenanthrene | U | | 0.00837 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0132 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0534 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0144 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Diethyl phthalate | U | | 0.0139 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Dimethyl phthalate | U | | 0.0894 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0285 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Pyrene | 0.0121 | J | 0.00821 | 0.0422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0132 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0137 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2-Chlorophenol | U | | 0.0139 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0123 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0110 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0956 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0987 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Nitrophenol | U | | 0.0151 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 4-Nitrophenol | U | | 0.0132 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Pentachlorophenol | U | | 0.0113 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| Phenol | U | | 0.0170 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0136 | 0.422 | 1 | 06/14/2024 00:18 | WG2303251 |
| *(S) 2-Fluorophenol* | *65.2* | | | *12.0-120* | | *06/14/2024 00:18* | WG2303251 |
| *(S) Phenol-d5* | *61.4* | | | *10.0-120* | | *06/14/2024 00:18* | WG2303251 |
| *(S) Nitrobenzene-d5* | *53.3* | | | *10.0-122* | | *06/14/2024 00:18* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *61.8* | | | *15.0-120* | | *06/14/2024 00:18* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *61.0* | | | *10.0-127* | | *06/14/2024 00:18* | WG2303251 |
| *(S) p-Terphenyl-d14* | *68.7* | | | *10.0-120* | | *06/14/2024 00:18* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 83.6 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.111 | | 0.0215 | 0.0478 | 1 | 06/04/2024 09:50 | WG2297782 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 6.89 | | 0.651 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| Arsenic | 1.42 | J | 0.619 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| Barium | 173 | | 0.102 | 0.598 | 1 | 06/09/2024 19:47 | WG2299939 |
| Beryllium | 0.379 | | 0.0377 | 0.239 | 1 | 06/09/2024 19:47 | WG2299939 |
| Cadmium | 0.205 | J | 0.0563 | 0.598 | 1 | 06/09/2024 19:47 | WG2299939 |
| Chromium | 47.8 | | 0.159 | 1.20 | 1 | 06/09/2024 19:47 | WG2299939 |
| Cobalt | 10.0 | | 0.0970 | 1.20 | 1 | 06/09/2024 19:47 | WG2299939 |
| Copper | 22.0 | | 0.478 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| Lead | 16.4 | | 0.249 | 0.598 | 1 | 06/09/2024 19:47 | WG2299939 |
| Molybdenum | 0.413 | J | 0.130 | 0.598 | 1 | 06/09/2024 19:47 | WG2299939 |
| Nickel | 50.6 | | 0.158 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| Selenium | 1.02 | J | 0.914 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| Silver | U | | 0.152 | 1.20 | 1 | 06/10/2024 09:55 | WG2299939 |
| Thallium | U | | 0.471 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| Vanadium | 41.7 | | 0.605 | 2.39 | 1 | 06/09/2024 19:47 | WG2299939 |
| Zinc | 57.5 | | 0.995 | 5.98 | 1 | 06/09/2024 19:47 | WG2299939 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.17 | J | 1.16 | 3.49 | 25 | 06/06/2024 02:43 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/06/2024 02:43* | WG2299409 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| C12-C22 Hydrocarbons | 2.06 | J | 0.877 | 4.78 | 1 | 06/13/2024 13:11 | WG2303234 |
| C22-C32 Hydrocarbons | 4.96 | | 1.59 | 4.78 | 1 | 06/13/2024 13:11 | WG2303234 |
| C32-C40 Hydrocarbons | 3.95 | J | 1.59 | 4.78 | 1 | 06/13/2024 13:11 | WG2303234 |
| *(S) o-Terphenyl* | *52.6* | | | *18.0-148* | | *06/13/2024 13:11* | WG2303234 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00645 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Acenaphthylene | U | | 0.00561 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Anthracene | U | | 0.00709 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Benzidine | U | | 0.0749 | 2.00 | 1 | 06/13/2024 20:38 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00702 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00743 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00708 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00728 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00740 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0120 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0132 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0172 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0140 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00700 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0139 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Chrysene | U | | 0.00792 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0110 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0118 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0121 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0119 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0147 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0114 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0130 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Fluoranthene | U | | 0.00719 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Fluorene | U | | 0.00648 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Hexachlorobenzene | U | | 0.0141 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0134 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0209 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Hexachloroethane | U | | 0.0157 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0113 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Isophorone | U | | 0.0122 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Naphthalene | U | | 0.0100 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Nitrobenzene | U | | 0.0139 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0591 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0301 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0133 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Phenanthrene | U | | 0.00790 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0124 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0505 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0136 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Diethyl phthalate | U | | 0.0132 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Dimethyl phthalate | U | | 0.0844 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0269 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Pyrene | U | | 0.00775 | 0.0398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0124 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0129 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2-Chlorophenol | U | | 0.0132 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0116 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0104 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0903 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0932 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2-Nitrophenol | U | | 0.0142 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 4-Nitrophenol | U | | 0.0124 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Pentachlorophenol | U | | 0.0107 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| Phenol | U | | 0.0160 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0128 | 0.398 | 1 | 06/13/2024 20:38 | WG2303251 |
| *(S) 2-Fluorophenol* | *73.1* | | | *12.0-120* | | *06/13/2024 20:38* | WG2303251 |
| *(S) Phenol-d5* | *67.0* | | | *10.0-120* | | *06/13/2024 20:38* | WG2303251 |
| *(S) Nitrobenzene-d5* | *54.8* | | | *10.0-122* | | *06/13/2024 20:38* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *63.8* | | | *15.0-120* | | *06/13/2024 20:38* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *61.0* | | | *10.0-127* | | *06/13/2024 20:38* | WG2303251 |
| *(S) p-Terphenyl-d14* | *71.2* | | | *10.0-120* | | *06/13/2024 20:38* | WG2303251 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 80.1 | | 1 | 06/13/2024 08:01 | WG2304168 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.79 | B J | 1.35 | 4.06 | 27.5 | 06/13/2024 03:40 | WG2304093 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *06/13/2024 03:40* | WG2304093 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0592 | 0.0812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Acrylonitrile | U | | 0.00586 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Benzene | U | | 0.000759 | 0.00162 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Bromobenzene | U | | 0.00146 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Bromodichloromethane | U | | 0.00118 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Bromoform | U | | 0.00190 | 0.0406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Bromomethane | U | | 0.00320 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| n-Butylbenzene | U | | 0.00853 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| sec-Butylbenzene | U | | 0.00468 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| tert-Butylbenzene | U | | 0.00317 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Carbon tetrachloride | U | | 0.00146 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Chlorobenzene | U | | 0.000341 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Chlorodibromomethane | U | | 0.000994 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Chloroethane | U | | 0.00276 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Chloroform | U | | 0.00167 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Chloromethane | U | | 0.00707 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00141 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000731 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00633 | 0.0406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.00105 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Dibromomethane | U | | 0.00122 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000691 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.000974 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00114 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00261 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000797 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.00105 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.000985 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00119 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00168 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00230 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00131 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000813 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00123 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00185 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00224 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Di-isopropyl ether | U | | 0.000666 | 0.00162 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Ethylbenzene | U | | 0.00120 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.00974 | 0.0406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Isopropylbenzene | U | | 0.000691 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00415 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.103 | 0.162 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Methylene Chloride | 0.0146 | J | 0.0108 | 0.0406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00371 | 0.0406 | 1.1 | 06/13/2024 04:35 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000568 | 0.00162 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Naphthalene | U | J3 | 0.00793 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| n-Propylbenzene | U | | 0.00155 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Styrene | U | | 0.000372 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00154 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00113 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00122 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Tetrachloroethene | U | | 0.00146 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Toluene | 0.00248 | J | 0.00211 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0119 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00715 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00151 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.000970 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Trichloroethene | U | | 0.000948 | 0.00162 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00134 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00263 | 0.0204 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00257 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00257 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00325 | 0.00812 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Vinyl chloride | U | | 0.00189 | 0.00406 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| Xylenes, Total | U | | 0.00143 | 0.0106 | 1.1 | 06/13/2024 04:35 | WG2304049 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/13/2024 04:35* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/13/2024 04:35* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *91.3* | | | *70.0-130* | | *06/13/2024 04:35* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.916 | 5.00 | 1 | 06/14/2024 01:32 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.66 | 5.00 | 1 | 06/14/2024 01:32 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.66 | 5.00 | 1 | 06/14/2024 01:32 | WG2304127 |
| *(S) o-Terphenyl* | *46.0* | | | *18.0-148* | | *06/14/2024 01:32* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0413 | J | 0.0135 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Acenaphthylene | U | | 0.0117 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Anthracene | U | | 0.0149 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Benzidine | U | | 0.156 | 4.17 | 2 | 06/13/2024 23:11 | WG2304128 |
| Benzo(a)anthracene | U | | 0.0146 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Benzo(b)fluoranthene | 0.0190 | J | 0.0155 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.0147 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.0152 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Benzo(a)pyrene | U | | 0.0155 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0250 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0275 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0360 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0292 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.0146 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0290 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Chrysene | 0.0215 | J | 0.0165 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0231 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0246 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0252 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0247 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0307 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0239 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0272 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Fluoranthene | 0.0330 | J | 0.0150 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Fluorene | 0.0297 | J | 0.0135 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Hexachlorobenzene | U | | 0.0295 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0280 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0437 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Hexachloroethane | U | | 0.0327 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0235 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Isophorone | U | | 0.0255 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Naphthalene | U | | 0.0209 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Nitrobenzene | U | | 0.0290 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.123 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0630 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0277 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Phenanthrene | 0.0596 | J | 0.0165 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0260 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.105 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0285 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Diethyl phthalate | U | | 0.0275 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Dimethyl phthalate | U | | 0.176 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0562 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Pyrene | 0.0660 | J | 0.0162 | 0.0832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0260 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0270 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2-Chlorophenol | U | | 0.0275 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0242 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0217 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.189 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.195 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2-Nitrophenol | U | | 0.0297 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 4-Nitrophenol | U | | 0.0260 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Pentachlorophenol | U | | 0.0224 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| Phenol | U | | 0.0335 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0267 | 0.832 | 2 | 06/13/2024 23:11 | WG2304128 |
| *(S) 2-Fluorophenol* | *57.6* | | | *12.0-120* | | *06/13/2024 23:11* | WG2304128 |
| *(S) Phenol-d5* | *53.1* | | | *10.0-120* | | *06/13/2024 23:11* | WG2304128 |
| *(S) Nitrobenzene-d5* | *55.6* | | | *10.0-122* | | *06/13/2024 23:11* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *64.4* | | | *15.0-120* | | *06/13/2024 23:11* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *47.9* | | | *10.0-127* | | *06/13/2024 23:11* | WG2304128 |
| *(S) p-Terphenyl-d14* | *62.5* | | | *10.0-120* | | *06/13/2024 23:11* | WG2304128 |

**Sample Narrative:**

L1741921-51 WG2304128: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.6 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.18 | 3.54 | 25 | 06/06/2024 03:05 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *06/06/2024 03:05* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0517 | 0.0709 | 1 | 06/11/2024 19:45 | WG2303036 |
| Acrylonitrile | U | | 0.00512 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| Benzene | U | | 0.000662 | 0.00142 | 1 | 06/11/2024 19:45 | WG2303036 |
| Bromobenzene | U | | 0.00128 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| Bromodichloromethane | U | | 0.00103 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Bromoform | U | | 0.00166 | 0.0354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Bromomethane | U | | 0.00279 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| n-Butylbenzene | U | | 0.00744 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| sec-Butylbenzene | U | | 0.00408 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| tert-Butylbenzene | U | | 0.00276 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| Carbon tetrachloride | U | | 0.00127 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| Chlorobenzene | U | | 0.000298 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Chlorodibromomethane | U | | 0.000867 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Chloroethane | U | | 0.00241 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| Chloroform | U | | 0.00146 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Chloromethane | U | | 0.00617 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| 2-Chlorotoluene | U | | 0.00123 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000638 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00553 | 0.0354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.000918 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Dibromomethane | U | | 0.00106 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000602 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.000850 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.000992 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| Dichlorodifluoromethane | U | | 0.00228 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000696 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.000920 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.000859 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.00104 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00147 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00201 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.00115 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000710 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.00107 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00162 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00196 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Di-isopropyl ether | U | | 0.000581 | 0.00142 | 1 | 06/11/2024 19:45 | WG2303036 |
| Ethylbenzene | U | | 0.00104 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.00850 | 0.0354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Isopropylbenzene | U | | 0.000602 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| p-Isopropyltoluene | U | | 0.00361 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.0900 | 0.142 | 1 | 06/11/2024 19:45 | WG2303036 |
| Methylene Chloride | U | | 0.00941 | 0.0354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00323 | 0.0354 | 1 | 06/11/2024 19:45 | WG2303036 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000496 | 0.00142 | 1 | 06/11/2024 19:45 | WG2303036 |
| Naphthalene | U | | 0.00692 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| n-Propylbenzene | U | | 0.00135 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| Styrene | U | | 0.000325 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00134 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000985 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00107 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Tetrachloroethene | U | | 0.00127 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Toluene | 0.00449 | J | 0.00184 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.0104 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00624 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00131 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.000846 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Trichloroethene | U | | 0.000828 | 0.00142 | 1 | 06/11/2024 19:45 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00117 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00230 | 0.0177 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2,4-Trimethylbenzene | U | | 0.00224 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,2,3-Trimethylbenzene | U | | 0.00224 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.00283 | 0.00709 | 1 | 06/11/2024 19:45 | WG2303036 |
| Vinyl chloride | U | | 0.00164 | 0.00354 | 1 | 06/11/2024 19:45 | WG2303036 |
| Xylenes, Total | 0.00171 | J | 0.00125 | 0.00921 | 1 | 06/11/2024 19:45 | WG2303036 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/11/2024 19:45* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/11/2024 19:45* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *86.9* | | | *70.0-130* | | *06/11/2024 19:45* | WG2303036 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.876 | 4.78 | 1 | 06/13/2024 11:44 | WG2303234 |
| C22-C32 Hydrocarbons | U | | 1.59 | 4.78 | 1 | 06/13/2024 11:44 | WG2303234 |
| C32-C40 Hydrocarbons | U | | 1.59 | 4.78 | 1 | 06/13/2024 11:44 | WG2303234 |
| *(S) o-Terphenyl* | *51.0* | | | *18.0-148* | | *06/13/2024 11:44* | WG2303234 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 74.6 | | 1 | 06/13/2024 08:01 | WG2304168 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.48 | B J | 1.42 | 4.29 | 25 | 06/13/2024 04:03 | WG2304093 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *107* | | | *77.0-120* | | *06/13/2024 04:03* | WG2304093 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | J3 | 0.0626 | 0.0857 | 1 | 06/13/2024 04:54 | WG2304049 |
| Acrylonitrile | U | | 0.00619 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| Benzene | U | | 0.000801 | 0.00171 | 1 | 06/13/2024 04:54 | WG2304049 |
| Bromobenzene | U | | 0.00154 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| Bromodichloromethane | U | | 0.00124 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Bromoform | U | | 0.00201 | 0.0429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Bromomethane | U | | 0.00338 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| n-Butylbenzene | U | | 0.00900 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| sec-Butylbenzene | U | | 0.00494 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| tert-Butylbenzene | U | | 0.00334 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| Carbon tetrachloride | U | | 0.00154 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| Chlorobenzene | U | | 0.000360 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Chlorodibromomethane | U | | 0.00105 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Chloroethane | U | | 0.00291 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| Chloroform | U | | 0.00177 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Chloromethane | U | | 0.00746 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| 2-Chlorotoluene | U | | 0.00148 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 4-Chlorotoluene | U | | 0.000772 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00669 | 0.0429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2-Dibromoethane | U | | 0.00111 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Dibromomethane | U | | 0.00129 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2-Dichlorobenzene | U | | 0.000729 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,3-Dichlorobenzene | U | | 0.00103 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,4-Dichlorobenzene | U | | 0.00120 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| Dichlorodifluoromethane | U | | 0.00276 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,1-Dichloroethane | U | | 0.000842 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2-Dichloroethane | U | | 0.00111 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,1-Dichloroethene | U | | 0.00104 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| cis-1,2-Dichloroethene | U | | 0.00126 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| trans-1,2-Dichloroethene | U | | 0.00178 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2-Dichloropropane | U | | 0.00243 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,1-Dichloropropene | U | | 0.00139 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,3-Dichloropropane | U | | 0.000859 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| cis-1,3-Dichloropropene | U | | 0.00130 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| trans-1,3-Dichloropropene | U | | 0.00195 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 2,2-Dichloropropane | U | | 0.00237 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Di-isopropyl ether | U | | 0.000703 | 0.00171 | 1 | 06/13/2024 04:54 | WG2304049 |
| Ethylbenzene | U | | 0.00126 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Hexachloro-1,3-butadiene | U | | 0.0103 | 0.0429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Isopropylbenzene | U | | 0.000729 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| p-Isopropyltoluene | U | | 0.00437 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 2-Butanone (MEK) | U | | 0.109 | 0.171 | 1 | 06/13/2024 04:54 | WG2304049 |
| Methylene Chloride | U | | 0.0114 | 0.0429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00391 | 0.0429 | 1 | 06/13/2024 04:54 | WG2304049 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000600 | 0.00171 | 1 | 06/13/2024 04:54 | WG2304049 |
| Naphthalene | U | J3 | 0.00837 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| n-Propylbenzene | U | | 0.00163 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| Styrene | U | | 0.000393 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00163 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00119 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00129 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Tetrachloroethene | U | | 0.00154 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Toluene | U | | 0.00223 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2,3-Trichlorobenzene | U | | 0.0126 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.00754 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,1,1-Trichloroethane | U | | 0.00158 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,1,2-Trichloroethane | U | | 0.00102 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Trichloroethene | U | | 0.00100 | 0.00171 | 1 | 06/13/2024 04:54 | WG2304049 |
| Trichlorofluoromethane | U | | 0.00142 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2,3-Trichloropropane | U | | 0.00278 | 0.0214 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2,4-Trimethylbenzene | U | | 0.00271 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,2,3-Trimethylbenzene | U | | 0.00271 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| 1,3,5-Trimethylbenzene | U | | 0.00343 | 0.00857 | 1 | 06/13/2024 04:54 | WG2304049 |
| Vinyl chloride | U | | 0.00199 | 0.00429 | 1 | 06/13/2024 04:54 | WG2304049 |
| Xylenes, Total | U | | 0.00151 | 0.0111 | 1 | 06/13/2024 04:54 | WG2304049 |
| *(S) Toluene-d8* | *105* | | | *75.0-131* | | *06/13/2024 04:54* | WG2304049 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/13/2024 04:54* | WG2304049 |
| *(S) 1,2-Dichloroethane-d4* | *94.0* | | | *70.0-130* | | *06/13/2024 04:54* | WG2304049 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.982 | 5.36 | 1 | 06/14/2024 02:15 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.78 | 5.36 | 1 | 06/14/2024 02:15 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.78 | 5.36 | 1 | 06/14/2024 02:15 | WG2304127 |
| *(S) o-Terphenyl* | *61.6* | | | *18.0-148* | | *06/14/2024 02:15* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00722 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Acenaphthylene | U | | 0.00629 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Anthracene | U | | 0.00795 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Benzidine | U | | 0.0839 | 2.24 | 1 | 06/13/2024 20:05 | WG2304128 |
| Benzo(a)anthracene | U | | 0.00787 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Benzo(b)fluoranthene | U | | 0.00832 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.00793 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.00816 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Benzo(a)pyrene | U | | 0.00830 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0134 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0147 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0193 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0157 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.00784 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0155 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Chrysene | U | | 0.00887 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0124 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0132 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0135 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0133 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0165 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0128 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0146 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Fluoranthene | U | | 0.00805 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Fluorene | U | | 0.00726 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Hexachlorobenzene | U | | 0.0158 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0150 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0235 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Hexachloroethane | U | | 0.0176 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0126 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Isophorone | U | | 0.0137 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Naphthalene | U | | 0.0112 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Nitrobenzene | U | | 0.0155 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.0662 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0338 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0149 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Phenanthrene | U | | 0.00886 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0139 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0566 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0153 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Diethyl phthalate | U | | 0.0147 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Dimethyl phthalate | U | | 0.0946 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0302 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Pyrene | U | | 0.00868 | 0.0446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0139 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0145 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2-Chlorophenol | U | | 0.0147 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0130 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0117 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.101 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.104 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2-Nitrophenol | U | | 0.0159 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 4-Nitrophenol | U | | 0.0139 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Pentachlorophenol | U | | 0.0120 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| Phenol | U | | 0.0180 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0143 | 0.446 | 1 | 06/13/2024 20:05 | WG2304128 |
| *(S) 2-Fluorophenol* | *53.9* | | | *12.0-120* | | *06/13/2024 20:05* | WG2304128 |
| *(S) Phenol-d5* | *48.8* | | | *10.0-120* | | *06/13/2024 20:05* | WG2304128 |
| *(S) Nitrobenzene-d5* | *52.3* | | | *10.0-122* | | *06/13/2024 20:05* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *57.3* | | | *15.0-120* | | *06/13/2024 20:05* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *43.8* | | | *10.0-127* | | *06/13/2024 20:05* | WG2304128 |
| *(S) p-Terphenyl-d14* | *57.3* | | | *10.0-120* | | *06/13/2024 20:05* | WG2304128 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.6 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0625 | 0.0855 | 1 | 06/11/2024 20:04 | WG2303036 |
| Acrylonitrile | U | | 0.00618 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| Benzene | U | | 0.000799 | 0.00171 | 1 | 06/11/2024 20:04 | WG2303036 |
| Bromobenzene | U | | 0.00154 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| Bromodichloromethane | U | | 0.00124 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Bromoform | U | | 0.00200 | 0.0428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Bromomethane | U | | 0.00337 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| n-Butylbenzene | U | | 0.00898 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| sec-Butylbenzene | U | | 0.00493 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| tert-Butylbenzene | U | | 0.00334 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| Carbon tetrachloride | U | | 0.00154 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| Chlorobenzene | U | | 0.000359 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Chlorodibromomethane | U | | 0.00105 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Chloroethane | U | | 0.00291 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| Chloroform | U | | 0.00176 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Chloromethane | U | | 0.00744 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| 2-Chlorotoluene | U | | 0.00148 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000770 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00667 | 0.0428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.00111 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Dibromomethane | U | | 0.00128 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000727 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.00103 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.00120 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| Dichlorodifluoromethane | U | | 0.00275 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000840 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.00111 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.00104 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.00126 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00178 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00243 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.00138 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000857 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.00130 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00195 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00236 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Di-isopropyl ether | U | | 0.000702 | 0.00171 | 1 | 06/11/2024 20:04 | WG2303036 |
| Ethylbenzene | U | | 0.00126 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.0103 | 0.0428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Isopropylbenzene | U | | 0.000727 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| p-Isopropyltoluene | U | | 0.00436 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.109 | 0.171 | 1 | 06/11/2024 20:04 | WG2303036 |
| Methylene Chloride | U | | 0.0114 | 0.0428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00390 | 0.0428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Methyl tert-butyl ether | U | | 0.000599 | 0.00171 | 1 | 06/11/2024 20:04 | WG2303036 |
| Naphthalene | U | | 0.00835 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| n-Propylbenzene | U | | 0.00163 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| Styrene | U | | 0.000392 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00162 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00119 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00129 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Tetrachloroethene | U | | 0.00153 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Toluene | U | | 0.00222 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.0125 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00753 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00158 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.00102 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Trichloroethene | U | | 0.000999 | 0.00171 | 1 | 06/11/2024 20:04 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00141 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00277 | 0.0214 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2,4-Trimethylbenzene | U | | 0.00270 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,2,3-Trimethylbenzene | U | | 0.00270 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.00342 | 0.00855 | 1 | 06/11/2024 20:04 | WG2303036 |
| Vinyl chloride | U | | 0.00198 | 0.00428 | 1 | 06/11/2024 20:04 | WG2303036 |
| Xylenes, Total | U | | 0.00151 | 0.0111 | 1 | 06/11/2024 20:04 | WG2303036 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/11/2024 20:04* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/11/2024 20:04* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *94.3* | | | *70.0-130* | | *06/11/2024 20:04* | WG2303036 |

## Mercury by Method 7470A

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 | 1 | 06/03/2024 12:20 | WG2296703 |

## Metals (ICPMS) by Method 6020

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Antimony | U | | 1.03 | 4.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Arsenic | U | | 0.180 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Barium | U | | 0.381 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Beryllium | U | | 0.190 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Cadmium | U | | 0.150 | 1.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Chromium | U | | 1.24 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Copper | U | | 1.51 | 5.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Cobalt | U | | 0.0596 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Lead | U | | 0.849 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Molybdenum | U | | 0.348 | 5.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Nickel | U | | 0.816 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Selenium | U | | 0.300 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Silver | U | | 0.0700 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Thallium | U | | 0.121 | 2.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Vanadium | U | | 0.664 | 5.00 | 1 | 06/18/2024 17:15 | WG2306181 |
| Zinc | U | | 3.02 | 25.0 | 1 | 06/18/2024 17:15 | WG2306181 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 76.0 | B J | 30.4 | 100 | 1 | 06/12/2024 03:27 | WG2303210 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.8* | | | *78.0-120* | | *06/12/2024 03:27* | WG2303210 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 06/06/2024 12:15 | WG2299510 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 06/06/2024 12:15 | WG2299510 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 06/06/2024 12:15 | WG2299510 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Chlorodibromomethane | U | J4 | 0.140 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 06/06/2024 12:15 | WG2299510 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 06/06/2024 12:15 | WG2299510 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 06/06/2024 12:15 | WG2299510 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Styrene | U | | 0.118 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Toluene | U | | 0.278 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 06/06/2024 12:15 | WG2299510 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *06/06/2024 12:15* | WG2299510 |
| *(S) 4-Bromofluorobenzene* | *96.4* | | | *77.0-126* | | *06/06/2024 12:15* | WG2299510 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *06/06/2024 12:15* | WG2299510 |

## Semi-Volatile Organic Compounds (GC) by Method 3511/8015

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 14:07 | WG2296791 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 14:07 | WG2296791 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 | 1 | 06/02/2024 14:07 | WG2296791 |
| *(S) o-Terphenyl* | *65.8* | | | *52.0-156* | | *06/02/2024 14:07* | WG2296791 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 88.6 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | U | | 0.0203 | 0.0452 | 1 | 06/04/2024 09:52 | WG2297782 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 21.2 | | 0.614 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| Arsenic | 2.19 | J | 0.585 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| Barium | 316 | | 0.0962 | 0.564 | 1 | 06/09/2024 19:49 | WG2299939 |
| Beryllium | 1.11 | | 0.0356 | 0.226 | 1 | 06/09/2024 19:49 | WG2299939 |
| Cadmium | 3.04 | | 0.0532 | 0.564 | 1 | 06/09/2024 19:49 | WG2299939 |
| Chromium | 88.0 | | 0.150 | 1.13 | 1 | 06/09/2024 19:49 | WG2299939 |
| Cobalt | 4.36 | | 0.0916 | 1.13 | 1 | 06/09/2024 19:49 | WG2299939 |
| Copper | 79.7 | | 0.452 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| Lead | 711 | | 0.235 | 0.564 | 1 | 06/09/2024 19:49 | WG2299939 |
| Molybdenum | 9.59 | | 0.123 | 0.564 | 1 | 06/09/2024 19:49 | WG2299939 |
| Nickel | 20.2 | | 0.149 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| Selenium | 6.10 | | 0.862 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| Silver | 3.75 | | 0.143 | 1.13 | 1 | 06/10/2024 09:56 | WG2299939 |
| Thallium | 1.51 | J | 0.445 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| Vanadium | 32.4 | | 0.571 | 2.26 | 1 | 06/09/2024 19:49 | WG2299939 |
| Zinc | 455 | | 0.939 | 5.64 | 1 | 06/09/2024 19:49 | WG2299939 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0266 | 0.0768 | 2 | 06/19/2024 07:36 | WG2304583 |
| PCB 1221 | U | | 0.0266 | 0.0768 | 2 | 06/19/2024 07:36 | WG2304583 |
| PCB 1232 | U | | 0.0266 | 0.0768 | 2 | 06/19/2024 07:36 | WG2304583 |
| PCB 1242 | U | | 0.0266 | 0.0768 | 2 | 06/19/2024 07:36 | WG2304583 |
| PCB 1248 | U | | 0.0167 | 0.0384 | 2 | 06/19/2024 07:36 | WG2304583 |
| PCB 1254 | U | | 0.0167 | 0.0384 | 2 | 06/19/2024 07:36 | WG2304583 |
| PCB 1260 | 0.265 | | 0.0167 | 0.0384 | 2 | 06/19/2024 23:10 | WG2304583 |
| *(S) Decachlorobiphenyl* | *80.8* | | | *10.0-135* | | *06/19/2024 07:36* | WG2304583 |
| *(S) Decachlorobiphenyl* | *97.8* | | | *10.0-135* | | *06/19/2024 23:10* | WG2304583 |
| *(S) Tetrachloro-m-xylene* | *106* | | | *10.0-139* | | *06/19/2024 23:10* | WG2304583 |
| *(S) Tetrachloro-m-xylene* | *88.1* | | | *10.0-139* | | *06/19/2024 07:36* | WG2304583 |

**Sample Narrative:**

L1741921-56 WG2304583: Dilution due to sulfur cleanup.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0608 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Acenaphthylene | U | | 0.0529 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Anthracene | U | | 0.0669 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Benzidine | U | | 0.707 | 18.9 | 10 | 06/14/2024 12:04 | WG2303251 |
| Benzo(a)anthracene | U | | 0.0663 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.0701 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(k)fluoranthene | U | | 0.0668 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.0687 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Benzo(a)pyrene | U | | 0.0699 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.113 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.124 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.163 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.132 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.0660 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.131 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Chrysene | U | | 0.0747 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.104 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.111 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.114 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.112 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.139 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.108 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.123 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Fluoranthene | U | | 0.0678 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Fluorene | U | | 0.0612 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Hexachlorobenzene | U | | 0.133 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.126 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.198 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Hexachloroethane | U | | 0.148 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.106 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Isophorone | U | | 0.115 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Naphthalene | U | | 0.0944 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Nitrobenzene | U | | 0.131 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.558 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.284 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.125 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Phenanthrene | U | | 0.0746 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.117 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.476 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.129 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Diethyl phthalate | U | | 0.124 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Dimethyl phthalate | U | | 0.797 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.254 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Pyrene | U | | 0.0732 | 0.376 | 10 | 06/14/2024 12:04 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.117 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.122 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2-Chlorophenol | U | | 0.124 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.110 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0982 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.852 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.879 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2-Nitrophenol | U | | 0.134 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 4-Nitrophenol | U | | 0.117 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Pentachlorophenol | U | | 0.101 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| Phenol | U | | 0.151 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.121 | 3.76 | 10 | 06/14/2024 12:04 | WG2303251 |
| *(S) 2-Fluorophenol* | *79.9* | | | *12.0-120* | | *06/14/2024 12:04* | WG2303251 |
| *(S) Phenol-d5* | *71.8* | | | *10.0-120* | | *06/14/2024 12:04* | WG2303251 |
| *(S) Nitrobenzene-d5* | *62.8* | | | *10.0-122* | | *06/14/2024 12:04* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *73.1* | | | *15.0-120* | | *06/14/2024 12:04* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *79.3* | | | *10.0-127* | | *06/14/2024 12:04* | WG2303251 |
| *(S) p-Terphenyl-d14* | *89.7* | | | *10.0-120* | | *06/14/2024 12:04* | WG2303251 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

Sample Narrative:

L1741921-56 WG2303251: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 90.1 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.193 | | 0.0200 | 0.0444 | 1 | 06/04/2024 09:32 | WG2297782 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 9.09 | | 0.604 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| Arsenic | 2.28 | | 0.575 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| Barium | 128 | | 0.0946 | 0.555 | 1 | 06/09/2024 19:51 | WG2299939 |
| Beryllium | 0.204 | J | 0.0350 | 0.222 | 1 | 06/09/2024 19:51 | WG2299939 |
| Cadmium | 1.43 | | 0.0523 | 0.555 | 1 | 06/09/2024 19:51 | WG2299939 |
| Chromium | 22.1 | | 0.148 | 1.11 | 1 | 06/09/2024 19:51 | WG2299939 |
| Cobalt | 9.76 | | 0.0900 | 1.11 | 1 | 06/09/2024 19:51 | WG2299939 |
| Copper | 36.1 | | 0.444 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| Lead | 106 | | 0.231 | 0.555 | 1 | 06/09/2024 19:51 | WG2299939 |
| Molybdenum | 1.26 | | 0.121 | 0.555 | 1 | 06/09/2024 19:51 | WG2299939 |
| Nickel | 27.5 | | 0.147 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| Selenium | U | | 0.848 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| Silver | 0.558 | J | 0.141 | 1.11 | 1 | 06/10/2024 09:58 | WG2299939 |
| Thallium | U | | 0.437 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| Vanadium | 33.9 | | 0.562 | 2.22 | 1 | 06/09/2024 19:51 | WG2299939 |
| Zinc | 265 | | 0.924 | 5.55 | 1 | 06/09/2024 19:51 | WG2299939 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0450 | 0.0617 | 1 | 06/11/2024 20:24 | WG2303036 |
| Acrylonitrile | U | | 0.00445 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| Benzene | U | | 0.000576 | 0.00123 | 1 | 06/11/2024 20:24 | WG2303036 |
| Bromobenzene | U | | 0.00111 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| Bromodichloromethane | U | | 0.000895 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Bromoform | U | | 0.00144 | 0.0308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Bromomethane | U | | 0.00243 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| n-Butylbenzene | 0.00999 | J | 0.00648 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| sec-Butylbenzene | U | | 0.00355 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| tert-Butylbenzene | 0.00345 | J | 0.00241 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| Carbon tetrachloride | U | | 0.00111 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| Chlorobenzene | U | | 0.000259 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Chlorodibromomethane | U | | 0.000755 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Chloroethane | U | | 0.00210 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| Chloroform | U | | 0.00127 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Chloromethane | U | | 0.00537 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| 2-Chlorotoluene | U | | 0.00107 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000555 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00481 | 0.0308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.000800 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Dibromomethane | U | | 0.000925 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000524 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.000740 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.000864 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00199 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000606 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.000801 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.000748 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.000906 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00128 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00175 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.000998 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000618 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.000934 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00141 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00170 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Di-isopropyl ether | U | | 0.000506 | 0.00123 | 1 | 06/11/2024 20:24 | WG2303036 |
| Ethylbenzene | U | | 0.000909 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.00740 | 0.0308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Isopropylbenzene | U | | 0.000524 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| p-Isopropyltoluene | U | | 0.00315 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.0784 | 0.123 | 1 | 06/11/2024 20:24 | WG2303036 |
| Methylene Chloride | U | | 0.00819 | 0.0308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00281 | 0.0308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Methyl tert-butyl ether | U | | 0.000432 | 0.00123 | 1 | 06/11/2024 20:24 | WG2303036 |
| Naphthalene | U | | 0.00602 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| n-Propylbenzene | U | | 0.00117 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| Styrene | U | | 0.000283 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00117 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000858 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000930 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Tetrachloroethene | U | | 0.00111 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Toluene | U | | 0.00160 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.00904 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00543 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00114 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.000737 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Trichloroethene | U | | 0.000721 | 0.00123 | 1 | 06/11/2024 20:24 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00102 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00200 | 0.0154 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2,4-Trimethylbenzene | 0.00200 | J | 0.00195 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,2,3-Trimethylbenzene | U | | 0.00195 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.00247 | 0.00617 | 1 | 06/11/2024 20:24 | WG2303036 |
| Vinyl chloride | U | | 0.00143 | 0.00308 | 1 | 06/11/2024 20:24 | WG2303036 |
| Xylenes, Total | 0.00209 | J | 0.00109 | 0.00802 | 1 | 06/11/2024 20:24 | WG2303036 |
| *(S) Toluene-d8* | *99.0* | | | *75.0-131* | | *06/11/2024 20:24* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *67.0-138* | | *06/11/2024 20:24* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *93.6* | | | *70.0-130* | | *06/11/2024 20:24* | WG2303036 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00598 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Acenaphthylene | U | | 0.00521 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Anthracene | U | | 0.00658 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Benzidine | U | | 0.0695 | 1.85 | 1 | 06/13/2024 21:03 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00652 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00689 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00657 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00676 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | U | | 0.00687 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0111 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0122 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0160 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0130 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00649 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0129 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Chrysene | U | | 0.00735 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0102 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0110 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0112 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0110 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0137 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0106 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0121 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Fluoranthene | U | | 0.00667 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Fluorene | U | | 0.00602 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Hexachlorobenzene | U | | 0.0131 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0124 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0194 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Hexachloroethane | U | | 0.0145 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0104 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Isophorone | U | | 0.0113 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Naphthalene | U | | 0.00928 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Nitrobenzene | U | | 0.0129 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0548 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0280 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0123 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Phenanthrene | U | | 0.00734 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0115 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0469 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0127 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Diethyl phthalate | U | | 0.0122 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Dimethyl phthalate | U | | 0.0784 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0250 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Pyrene | U | | 0.00719 | 0.0370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0115 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0120 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2-Chlorophenol | U | | 0.0122 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0108 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.00966 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0838 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0865 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2-Nitrophenol | U | | 0.0132 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 4-Nitrophenol | U | | 0.0115 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Pentachlorophenol | U | | 0.00995 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| Phenol | U | | 0.0149 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0119 | 0.370 | 1 | 06/13/2024 21:03 | WG2303251 |
| *(S) 2-Fluorophenol* | *70.1* | | | *12.0-120* | | *06/13/2024 21:03* | WG2303251 |
| *(S) Phenol-d5* | *65.0* | | | *10.0-120* | | *06/13/2024 21:03* | WG2303251 |
| *(S) Nitrobenzene-d5* | *55.0* | | | *10.0-122* | | *06/13/2024 21:03* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *62.2* | | | *15.0-120* | | *06/13/2024 21:03* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *63.8* | | | *10.0-127* | | *06/13/2024 21:03* | WG2303251 |
| *(S) p-Terphenyl-d14* | *71.2* | | | *10.0-120* | | *06/13/2024 21:03* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.6 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0607 | | 0.0223 | 0.0496 | 1 | 06/04/2024 09:55 | WG2297782 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 7.98 | | 0.675 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| Arsenic | U | | 0.642 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| Barium | 154 | | 0.106 | 0.620 | 1 | 06/09/2024 19:53 | WG2299939 |
| Beryllium | 0.412 | | 0.0391 | 0.248 | 1 | 06/09/2024 19:53 | WG2299939 |
| Cadmium | 0.109 | J | 0.0584 | 0.620 | 1 | 06/09/2024 19:53 | WG2299939 |
| Chromium | 47.4 | | 0.165 | 1.24 | 1 | 06/09/2024 19:53 | WG2299939 |
| Cobalt | 10.6 | | 0.101 | 1.24 | 1 | 06/09/2024 19:53 | WG2299939 |
| Copper | 21.9 | | 0.496 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| Lead | 10.1 | | 0.258 | 0.620 | 1 | 06/09/2024 19:53 | WG2299939 |
| Molybdenum | 0.481 | J | 0.135 | 0.620 | 1 | 06/09/2024 19:53 | WG2299939 |
| Nickel | 51.8 | | 0.164 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| Selenium | U | | 0.948 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| Silver | 0.228 | J | 0.158 | 1.24 | 1 | 06/10/2024 10:00 | WG2299939 |
| Thallium | U | | 0.489 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| Vanadium | 44.8 | | 0.628 | 2.48 | 1 | 06/09/2024 19:53 | WG2299939 |
| Zinc | 53.4 | | 1.03 | 6.20 | 1 | 06/09/2024 19:53 | WG2299939 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.39 | J | 1.28 | 3.86 | 25 | 06/06/2024 03:26 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/06/2024 03:26* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0564 | 0.0772 | 1 | 06/11/2024 20:43 | WG2303036 |
| Acrylonitrile | U | | 0.00557 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| Benzene | U | | 0.000721 | 0.00154 | 1 | 06/11/2024 20:43 | WG2303036 |
| Bromobenzene | U | | 0.00139 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| Bromodichloromethane | U | | 0.00112 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Bromoform | U | | 0.00181 | 0.0386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Bromomethane | U | | 0.00304 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| n-Butylbenzene | U | | 0.00811 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| sec-Butylbenzene | U | | 0.00445 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| tert-Butylbenzene | U | | 0.00301 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| Carbon tetrachloride | U | | 0.00139 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| Chlorobenzene | U | | 0.000324 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Chlorodibromomethane | U | | 0.000945 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Chloroethane | U | | 0.00262 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| Chloroform | U | | 0.00159 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Chloromethane | U | | 0.00672 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| 2-Chlorotoluene | 0.0112 | | 0.00134 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000695 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00602 | 0.0386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.00100 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Dibromomethane | U | | 0.00116 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000656 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.000926 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.00108 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| Dichlorodifluoromethane | U | | 0.00249 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000758 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.00100 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.000936 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.00113 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00161 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00219 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.00125 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000774 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.00117 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00176 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00213 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Di-isopropyl ether | U | | 0.000633 | 0.00154 | 1 | 06/11/2024 20:43 | WG2303036 |
| Ethylbenzene | U | | 0.00114 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.00926 | 0.0386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Isopropylbenzene | 0.00769 | | 0.000656 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| p-Isopropyltoluene | U | | 0.00394 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.0980 | 0.154 | 1 | 06/11/2024 20:43 | WG2303036 |
| Methylene Chloride | U | | 0.0103 | 0.0386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00352 | 0.0386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Methyl tert-butyl ether | U | | 0.000540 | 0.00154 | 1 | 06/11/2024 20:43 | WG2303036 |
| Naphthalene | U | | 0.00754 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| n-Propylbenzene | 0.00165 | J | 0.00147 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| Styrene | U | | 0.000354 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00146 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00107 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00116 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Tetrachloroethene | U | | 0.00138 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Toluene | U | | 0.00201 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.0113 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00679 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00143 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.000922 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Trichloroethene | U | | 0.000902 | 0.00154 | 1 | 06/11/2024 20:43 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00128 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00250 | 0.0193 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2,4-Trimethylbenzene | U | | 0.00244 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,2,3-Trimethylbenzene | U | | 0.00244 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.00309 | 0.00772 | 1 | 06/11/2024 20:43 | WG2303036 |
| Vinyl chloride | U | | 0.00179 | 0.00386 | 1 | 06/11/2024 20:43 | WG2303036 |
| Xylenes, Total | 0.00222 | J | 0.00136 | 0.0100 | 1 | 06/11/2024 20:43 | WG2303036 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/11/2024 20:43* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *06/11/2024 20:43* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *87.1* | | | *70.0-130* | | *06/11/2024 20:43* | WG2303036 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 3.30 | J | 0.909 | 4.96 | 1 | 06/13/2024 12:13 | WG2303234 |
| C22-C32 Hydrocarbons | 6.00 | | 1.65 | 4.96 | 1 | 06/13/2024 12:13 | WG2303234 |
| C32-C40 Hydrocarbons | 3.70 | J | 1.65 | 4.96 | 1 | 06/13/2024 12:13 | WG2303234 |
| *(S) o-Terphenyl* | *55.4* | | | *18.0-148* | | *06/13/2024 12:13* | WG2303234 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00668 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Acenaphthylene | U | | 0.00582 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Anthracene | U | | 0.00735 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Benzidine | U | | 0.0776 | 2.07 | 1 | 06/13/2024 21:27 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00728 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00770 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00734 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00755 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00768 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0124 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0136 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0179 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0145 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00726 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0144 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Chrysene | U | | 0.00821 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0114 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0122 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0125 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0123 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0153 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0118 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0135 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Fluoranthene | U | | 0.00745 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Fluorene | U | | 0.00672 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Hexachlorobenzene | U | | 0.0146 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0139 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0217 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Hexachloroethane | U | | 0.0162 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0117 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Isophorone | U | | 0.0127 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Naphthalene | U | | 0.0104 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Nitrobenzene | U | | 0.0144 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0613 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0313 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0138 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Phenanthrene | U | | 0.00820 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0129 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0523 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0141 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Diethyl phthalate | U | | 0.0136 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Dimethyl phthalate | U | | 0.0876 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0279 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Pyrene | U | | 0.00804 | 0.0413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0129 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0134 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2-Chlorophenol | U | | 0.0136 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0120 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.0108 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0936 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0966 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2-Nitrophenol | U | | 0.0148 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 4-Nitrophenol | U | | 0.0129 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Pentachlorophenol | U | | 0.0111 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| Phenol | U | | 0.0166 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0133 | 0.413 | 1 | 06/13/2024 21:27 | WG2303251 |
| *(S) 2-Fluorophenol* | *73.1* | | | *12.0-120* | | *06/13/2024 21:27* | WG2303251 |
| *(S) Phenol-d5* | *67.9* | | | *10.0-120* | | *06/13/2024 21:27* | WG2303251 |
| *(S) Nitrobenzene-d5* | *56.4* | | | *10.0-122* | | *06/13/2024 21:27* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *65.7* | | | *15.0-120* | | *06/13/2024 21:27* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *64.0* | | | *10.0-127* | | *06/13/2024 21:27* | WG2303251 |
| *(S) p-Terphenyl-d14* | *73.8* | | | *10.0-120* | | *06/13/2024 21:27* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 79.9 | | 1 | 06/13/2024 08:01 | WG2304168 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 2.17 | B J | 1.27 | 3.82 | 25.5 | 06/13/2024 04:26 | WG2304093 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *107* | | | *77.0-120* | | *06/13/2024 04:26* | WG2304093 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0557 | 0.0764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Acrylonitrile | U | | 0.00551 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Benzene | U | | 0.000713 | 0.00153 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Bromobenzene | U | | 0.00138 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Bromodichloromethane | U | | 0.00111 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Bromoform | U | | 0.00178 | 0.0382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Bromomethane | U | | 0.00301 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| n-Butylbenzene | U | | 0.00801 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| sec-Butylbenzene | U | | 0.00440 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| tert-Butylbenzene | U | | 0.00298 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Carbon tetrachloride | U | | 0.00137 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Chlorobenzene | U | | 0.000321 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Chlorodibromomethane | U | | 0.000935 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Chloroethane | U | | 0.00259 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Chloroform | U | | 0.00157 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Chloromethane | U | | 0.00665 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 2-Chlorotoluene | U | | 0.00132 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 4-Chlorotoluene | U | | 0.000688 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00596 | 0.0382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2-Dibromoethane | U | | 0.000990 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Dibromomethane | U | | 0.00115 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2-Dichlorobenzene | U | | 0.000649 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,3-Dichlorobenzene | U | | 0.000917 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Dichlorodifluoromethane | U | | 0.00246 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,1-Dichloroethane | U | | 0.000750 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2-Dichloroethane | U | | 0.000992 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,1-Dichloroethene | U | | 0.000926 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| trans-1,2-Dichloroethene | U | | 0.00159 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2-Dichloropropane | U | | 0.00217 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,1-Dichloropropene | U | | 0.00124 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,3-Dichloropropane | U | | 0.000765 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| cis-1,3-Dichloropropene | U | | 0.00116 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| trans-1,3-Dichloropropene | U | | 0.00174 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 2,2-Dichloropropane | U | | 0.00211 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Di-isopropyl ether | U | | 0.000626 | 0.00153 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Ethylbenzene | U | | 0.00113 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Hexachloro-1,3-butadiene | U | | 0.00917 | 0.0382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Isopropylbenzene | 0.00145 | J | 0.000649 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| p-Isopropyltoluene | U | | 0.00389 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 2-Butanone (MEK) | U | | 0.0971 | 0.153 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Methylene Chloride | 0.0157 | J | 0.0101 | 0.0382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00349 | 0.0382 | 1.02 | 06/13/2024 03:08 | WG2304116 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000535 | 0.00153 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Naphthalene | U | | 0.00746 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| n-Propylbenzene | U | | 0.00145 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Styrene | U | | 0.000350 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00145 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00115 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Tetrachloroethene | U | | 0.00137 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Toluene | 0.00367 | J | 0.00199 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2,4-Trichlorobenzene | U | | 0.00673 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,1,2-Trichloroethane | U | | 0.000912 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Trichloroethene | U | | 0.000893 | 0.00153 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Trichlorofluoromethane | U | | 0.00126 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2,3-Trichloropropane | U | | 0.00247 | 0.0192 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2,4-Trimethylbenzene | U | | 0.00241 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,2,3-Trimethylbenzene | U | | 0.00241 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| 1,3,5-Trimethylbenzene | U | | 0.00306 | 0.00764 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Vinyl chloride | U | | 0.00177 | 0.00382 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| Xylenes, Total | U | | 0.00135 | 0.00993 | 1.02 | 06/13/2024 03:08 | WG2304116 |
| *(S) Toluene-d8* | *113* | | | *75.0-131* | | *06/13/2024 03:08* | WG2304116 |
| *(S) 4-Bromofluorobenzene* | *96.1* | | | *67.0-138* | | *06/13/2024 03:08* | WG2304116 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/13/2024 03:08* | WG2304116 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.23 | J | 0.917 | 5.01 | 1 | 06/14/2024 01:18 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.66 | 5.01 | 1 | 06/14/2024 01:18 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.66 | 5.01 | 1 | 06/14/2024 01:18 | WG2304127 |
| *(S) o-Terphenyl* | *55.7* | | | *18.0-148* | | *06/14/2024 01:18* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00674 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Acenaphthylene | U | | 0.00587 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Anthracene | U | | 0.00742 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Benzidine | U | | 0.0783 | 2.09 | 1 | 06/13/2024 20:46 | WG2304128 |
| Benzo(a)anthracene | U | | 0.00735 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Benzo(b)fluoranthene | U | | 0.00777 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.00741 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.00762 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Benzo(a)pyrene | U | | 0.00775 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0125 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0138 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0180 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0146 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.00732 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0145 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Chrysene | U | | 0.00828 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0115 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0124 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0126 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0124 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0154 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0120 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0136 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Fluoranthene | U | | 0.00752 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Fluorene | U | | 0.00678 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Hexachlorobenzene | U | | 0.0148 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0140 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0219 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Hexachloroethane | U | | 0.0164 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0118 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Isophorone | U | | 0.0128 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Naphthalene | U | | 0.0105 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Nitrobenzene | U | | 0.0145 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.0618 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0315 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0139 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Phenanthrene | U | | 0.00827 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0130 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0528 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0143 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Diethyl phthalate | U | | 0.0138 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Dimethyl phthalate | U | | 0.0883 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0282 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Pyrene | U | | 0.00811 | 0.0417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0130 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0135 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2-Chlorophenol | U | | 0.0138 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0121 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0109 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0945 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.0975 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2-Nitrophenol | U | | 0.0149 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 4-Nitrophenol | U | | 0.0130 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Pentachlorophenol | U | | 0.0112 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| Phenol | U | | 0.0168 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0134 | 0.417 | 1 | 06/13/2024 20:46 | WG2304128 |
| *(S) 2-Fluorophenol* | *64.7* | | | *12.0-120* | | *06/13/2024 20:46* | WG2304128 |
| *(S) Phenol-d5* | *56.9* | | | *10.0-120* | | *06/13/2024 20:46* | WG2304128 |
| *(S) Nitrobenzene-d5* | *55.8* | | | *10.0-122* | | *06/13/2024 20:46* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *65.0* | | | *15.0-120* | | *06/13/2024 20:46* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *47.9* | | | *10.0-127* | | *06/13/2024 20:46* | WG2304128 |
| *(S) p-Terphenyl-d14* | *64.7* | | | *10.0-120* | | *06/13/2024 20:46* | WG2304128 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.6 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.36 | 4.10 | 25 | 06/06/2024 03:48 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/06/2024 03:48* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0598 | 0.0820 | 1 | 06/11/2024 21:02 | WG2303036 |
| Acrylonitrile | U | | 0.00592 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| Benzene | U | | 0.000766 | 0.00164 | 1 | 06/11/2024 21:02 | WG2303036 |
| Bromobenzene | U | | 0.00148 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| Bromodichloromethane | U | | 0.00119 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Bromoform | U | | 0.00192 | 0.0410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Bromomethane | U | | 0.00323 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| n-Butylbenzene | U | | 0.00861 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| sec-Butylbenzene | U | | 0.00472 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| tert-Butylbenzene | U | | 0.00320 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| Carbon tetrachloride | U | | 0.00147 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| Chlorobenzene | U | | 0.000344 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Chlorodibromomethane | U | | 0.00100 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Chloroethane | U | | 0.00279 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| Chloroform | U | | 0.00169 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Chloromethane | U | | 0.00713 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| 2-Chlorotoluene | 0.00285 | J | 0.00142 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000738 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00639 | 0.0410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Dibromomethane | U | | 0.00123 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000697 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.000984 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.00115 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| Dichlorodifluoromethane | U | | 0.00264 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000805 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.00106 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.000994 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.00120 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00171 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00233 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.00133 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000821 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.00124 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00187 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00226 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Di-isopropyl ether | U | | 0.000672 | 0.00164 | 1 | 06/11/2024 21:02 | WG2303036 |
| Ethylbenzene | U | | 0.00121 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.00984 | 0.0410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Isopropylbenzene | U | | 0.000697 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| p-Isopropyltoluene | U | | 0.00418 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.104 | 0.164 | 1 | 06/11/2024 21:02 | WG2303036 |
| Methylene Chloride | U | | 0.0109 | 0.0410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00374 | 0.0410 | 1 | 06/11/2024 21:02 | WG2303036 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000574 | 0.00164 | 1 | 06/11/2024 21:02 | WG2303036 |
| Naphthalene | U | | 0.00800 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| n-Propylbenzene | U | | 0.00156 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| Styrene | U | | 0.000375 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00155 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00114 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00124 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Tetrachloroethene | U | | 0.00147 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Toluene | U | | 0.00213 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.0120 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00721 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00151 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.000979 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Trichloroethene | U | | 0.000957 | 0.00164 | 1 | 06/11/2024 21:02 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00136 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00266 | 0.0205 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2,4-Trimethylbenzene | U | | 0.00259 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,2,3-Trimethylbenzene | U | | 0.00259 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.00328 | 0.00820 | 1 | 06/11/2024 21:02 | WG2303036 |
| Vinyl chloride | U | | 0.00190 | 0.00410 | 1 | 06/11/2024 21:02 | WG2303036 |
| Xylenes, Total | U | | 0.00144 | 0.0107 | 1 | 06/11/2024 21:02 | WG2303036 |
| *(S) Toluene-d8* | *98.8* | | | *75.0-131* | | *06/11/2024 21:02* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/11/2024 21:02* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *92.8* | | | *70.0-130* | | *06/11/2024 21:02* | WG2303036 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.23 | J | 0.945 | 5.15 | 1 | 06/13/2024 11:29 | WG2303234 |
| C22-C32 Hydrocarbons | U | | 1.71 | 5.15 | 1 | 06/13/2024 11:29 | WG2303234 |
| C32-C40 Hydrocarbons | U | | 1.71 | 5.15 | 1 | 06/13/2024 11:29 | WG2303234 |
| *(S) o-Terphenyl* | *52.5* | | | *18.0-148* | | *06/13/2024 11:29* | WG2303234 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.9 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.153 | | 0.0228 | 0.0507 | 1 | 06/04/2024 09:57 | WG2297782 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 10.0 | | 0.690 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| Arsenic | 206 | | 0.657 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| Barium | 1550 | | 0.108 | 0.634 | 1 | 06/09/2024 19:54 | WG2299939 |
| Beryllium | 0.333 | | 0.0399 | 0.254 | 1 | 06/09/2024 19:54 | WG2299939 |
| Cadmium | 5.90 | | 0.0597 | 0.634 | 1 | 06/09/2024 19:54 | WG2299939 |
| Chromium | 46.1 | | 0.169 | 1.27 | 1 | 06/09/2024 19:54 | WG2299939 |
| Cobalt | 12.5 | | 0.103 | 1.27 | 1 | 06/09/2024 19:54 | WG2299939 |
| Copper | 86.3 | | 0.507 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| Lead | 213 | | 0.264 | 0.634 | 1 | 06/09/2024 19:54 | WG2299939 |
| Molybdenum | 3.50 | | 0.138 | 0.634 | 1 | 06/09/2024 19:54 | WG2299939 |
| Nickel | 47.6 | | 0.167 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| Selenium | 3.52 | | 0.968 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| Silver | 0.513 | J | 0.161 | 1.27 | 1 | 06/10/2024 10:01 | WG2299939 |
| Thallium | U | | 0.499 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| Vanadium | 47.1 | | 0.641 | 2.54 | 1 | 06/09/2024 19:54 | WG2299939 |
| Zinc | 171 | | 1.05 | 6.34 | 1 | 06/09/2024 19:54 | WG2299939 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0150 | 0.0431 | 1 | 06/13/2024 13:19 | WG2303247 |
| PCB 1221 | U | | 0.0150 | 0.0431 | 1 | 06/13/2024 13:19 | WG2303247 |
| PCB 1232 | U | | 0.0150 | 0.0431 | 1 | 06/13/2024 13:19 | WG2303247 |
| PCB 1242 | U | | 0.0150 | 0.0431 | 1 | 06/13/2024 13:19 | WG2303247 |
| PCB 1248 | U | | 0.00935 | 0.0215 | 1 | 06/13/2024 13:19 | WG2303247 |
| PCB 1254 | U | | 0.00935 | 0.0215 | 1 | 06/13/2024 13:19 | WG2303247 |
| PCB 1260 | U | | 0.00935 | 0.0215 | 1 | 06/13/2024 13:19 | WG2303247 |
| *(S) Decachlorobiphenyl* | *44.6* | | | *10.0-135* | | *06/13/2024 13:19* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *35.4* | | | *10.0-139* | | *06/13/2024 13:19* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.00683 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Acenaphthylene | U | | 0.00594 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Anthracene | U | | 0.00752 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Benzidine | U | | 0.0793 | 2.12 | 1 | 06/13/2024 21:52 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00744 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00787 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00750 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00772 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00785 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0127 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0139 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0183 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0148 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00741 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0147 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Chrysene | U | | 0.00839 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0117 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0125 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0128 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0126 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0156 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0121 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0138 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Fluoranthene | U | | 0.00762 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Fluorene | U | | 0.00687 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Hexachlorobenzene | U | | 0.0150 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0142 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0222 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Hexachloroethane | U | | 0.0166 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0119 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Isophorone | U | | 0.0129 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Naphthalene | U | | 0.0106 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Nitrobenzene | U | | 0.0147 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0626 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0319 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0141 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Phenanthrene | U | | 0.00838 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0132 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0535 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0144 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Diethyl phthalate | U | | 0.0139 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Dimethyl phthalate | U | | 0.0895 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0285 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Pyrene | U | | 0.00821 | 0.0422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0132 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0137 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2-Chlorophenol | U | | 0.0139 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0123 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0110 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0957 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0987 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2-Nitrophenol | U | | 0.0151 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 4-Nitrophenol | U | | 0.0132 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Pentachlorophenol | U | | 0.0114 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| Phenol | U | | 0.0170 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0136 | 0.422 | 1 | 06/13/2024 21:52 | WG2303251 |
| *(S) 2-Fluorophenol* | *69.8* | | | *12.0-120* | | *06/13/2024 21:52* | WG2303251 |
| *(S) Phenol-d5* | *65.6* | | | *10.0-120* | | *06/13/2024 21:52* | WG2303251 |
| *(S) Nitrobenzene-d5* | *52.1* | | | *10.0-122* | | *06/13/2024 21:52* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *62.0* | | | *15.0-120* | | *06/13/2024 21:52* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *62.9* | | | *10.0-127* | | *06/13/2024 21:52* | WG2303251 |
| *(S) p-Terphenyl-d14* | *71.8* | | | *10.0-120* | | *06/13/2024 21:52* | WG2303251 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 85.0 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.196 | | 0.0212 | 0.0471 | 1 | 06/04/2024 10:00 | WG2297782 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 8.61 | J6 | 0.640 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| Arsenic | 415 | J3 J5 J6 | 0.609 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| Barium | 2040 | J3 O1 V | 0.100 | 0.588 | 1 | 06/09/2024 19:25 | WG2299939 |
| Beryllium | 0.363 | | 0.0371 | 0.235 | 1 | 06/09/2024 19:25 | WG2299939 |
| Cadmium | 6.35 | | 0.0554 | 0.588 | 1 | 06/09/2024 19:25 | WG2299939 |
| Chromium | 53.6 | O1 | 0.156 | 1.18 | 1 | 06/09/2024 19:25 | WG2299939 |
| Cobalt | 13.7 | | 0.0954 | 1.18 | 1 | 06/09/2024 19:25 | WG2299939 |
| Copper | 164 | J3 J5 | 0.471 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| Lead | 187 | J3 J5 J6 | 0.245 | 0.588 | 1 | 06/09/2024 19:25 | WG2299939 |
| Molybdenum | 1.75 | | 0.128 | 0.588 | 1 | 06/09/2024 19:25 | WG2299939 |
| Nickel | 57.8 | | 0.155 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| Selenium | 4.40 | | 0.899 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| Silver | 0.665 | J | 0.149 | 1.18 | 1 | 06/10/2024 09:33 | WG2299939 |
| Thallium | U | | 0.463 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| Vanadium | 47.9 | | 0.595 | 2.35 | 1 | 06/09/2024 19:25 | WG2299939 |
| Zinc | 249 | J3 J5 J6 O1 | 0.979 | 5.88 | 1 | 06/09/2024 19:25 | WG2299939 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0562 | 0.0771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Acrylonitrile | U | | 0.00557 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Benzene | 0.00219 | | 0.000720 | 0.00154 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Bromobenzene | U | | 0.00138 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Bromodichloromethane | U | | 0.00112 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Bromoform | U | | 0.00181 | 0.0385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Bromomethane | U | | 0.00304 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| n-Butylbenzene | U | | 0.00809 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| sec-Butylbenzene | U | | 0.00444 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| tert-Butylbenzene | U | | 0.00300 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Carbon tetrachloride | U | | 0.00138 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Chlorobenzene | U | | 0.000324 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Chlorodibromomethane | U | | 0.000943 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Chloroethane | U | | 0.00262 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Chloroform | U | | 0.00158 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Chloromethane | U | | 0.00671 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 2-Chlorotoluene | U | | 0.00133 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 4-Chlorotoluene | U | | 0.000694 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00601 | 0.0385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2-Dibromoethane | U | | 0.000999 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Dibromomethane | U | | 0.00116 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2-Dichlorobenzene | U | | 0.000655 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,3-Dichlorobenzene | U | | 0.000925 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,4-Dichlorobenzene | U | | 0.00108 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00248 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,1-Dichloroethane | U | | 0.000757 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2-Dichloroethane | U | | 0.00100 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,1-Dichloroethene | U | | 0.000934 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| cis-1,2-Dichloroethene | U | | 0.00113 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| trans-1,2-Dichloroethene | U | | 0.00161 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2-Dichloropropane | U | | 0.00219 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,1-Dichloropropene | U | | 0.00125 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,3-Dichloropropane | U | | 0.000772 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| cis-1,3-Dichloropropene | U | | 0.00117 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| trans-1,3-Dichloropropene | U | | 0.00175 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 2,2-Dichloropropane | U | | 0.00213 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Di-isopropyl ether | U | | 0.000632 | 0.00154 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Ethylbenzene | 0.00247 | J | 0.00114 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Hexachloro-1,3-butadiene | U | | 0.00925 | 0.0385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Isopropylbenzene | U | | 0.000655 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| p-Isopropyltoluene | U | | 0.00393 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 2-Butanone (MEK) | U | | 0.0979 | 0.154 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Methylene Chloride | 0.0311 | J | 0.0102 | 0.0385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00351 | 0.0385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Methyl tert-butyl ether | U | | 0.000539 | 0.00154 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Naphthalene | 0.0132 | J | 0.00752 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| n-Propylbenzene | 0.00351 | J | 0.00146 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Styrene | U | | 0.000353 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00146 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00107 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00116 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Tetrachloroethene | U | | 0.00138 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Toluene | 0.00752 | J | 0.00201 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2,3-Trichlorobenzene | U | | 0.0113 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2,4-Trichlorobenzene | U | | 0.00678 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,1,1-Trichloroethane | U | | 0.00142 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,1,2-Trichloroethane | U | | 0.000921 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Trichloroethene | U | | 0.000900 | 0.00154 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Trichlorofluoromethane | U | | 0.00127 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2,3-Trichloropropane | U | | 0.00250 | 0.0193 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2,4-Trimethylbenzene | 0.00501 | B J | 0.00243 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,2,3-Trimethylbenzene | 0.00355 | J | 0.00243 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| 1,3,5-Trimethylbenzene | U | | 0.00308 | 0.00771 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Vinyl chloride | U | | 0.00179 | 0.00385 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| Xylenes, Total | 0.00714 | J | 0.00136 | 0.0100 | 1.16 | 06/13/2024 02:28 | WG2303979 |
| *(S) Toluene-d8* | *113* | | | *75.0-131* | | *06/13/2024 02:28* | WG2303979 |
| *(S) 4-Bromofluorobenzene* | *94.1* | | | *67.0-138* | | *06/13/2024 02:28* | WG2303979 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/13/2024 02:28* | WG2303979 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00634 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Acenaphthylene | U | | 0.00552 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Anthracene | U | | 0.00698 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Benzidine | U | | 0.0736 | 1.96 | 1 | 06/14/2024 11:43 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00691 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00731 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00696 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00716 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | U | | 0.00728 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0118 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0129 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0169 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0138 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00688 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0136 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Chrysene | U | | 0.00779 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0109 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0116 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0119 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0117 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0145 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0112 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0128 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Fluoranthene | U | | 0.00707 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Fluorene | U | | 0.00638 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Hexachlorobenzene | U | | 0.0139 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0132 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0206 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Hexachloroethane | U | | 0.0154 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0111 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Isophorone | U | | 0.0120 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Naphthalene | U | | 0.00983 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Nitrobenzene | U | | 0.0136 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0581 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0296 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0131 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Phenanthrene | U | | 0.00778 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0122 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0496 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0134 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Diethyl phthalate | U | | 0.0129 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Dimethyl phthalate | U | | 0.0831 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0265 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Pyrene | U | | 0.00762 | 0.0392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0122 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0127 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2-Chlorophenol | U | | 0.0129 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0114 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0102 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0888 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0916 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2-Nitrophenol | U | | 0.0140 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 4-Nitrophenol | U | | 0.0122 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Pentachlorophenol | U | | 0.0105 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| Phenol | U | | 0.0158 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0126 | 0.392 | 1 | 06/14/2024 11:43 | WG2303251 |
| *(S) 2-Fluorophenol* | *72.1* | | | *12.0-120* | | *06/14/2024 11:43* | WG2303251 |
| *(S) Phenol-d5* | *67.2* | | | *10.0-120* | | *06/14/2024 11:43* | WG2303251 |
| *(S) Nitrobenzene-d5* | *59.6* | | | *10.0-122* | | *06/14/2024 11:43* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *69.4* | | | *15.0-120* | | *06/14/2024 11:43* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *89.7* | | | *10.0-127* | | *06/14/2024 11:43* | WG2303251 |
| *(S) p-Terphenyl-d14* | *82.0* | | | *10.0-120* | | *06/14/2024 11:43* | WG2303251 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.3 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.182 | | 0.0239 | 0.0531 | 1 | 06/04/2024 10:02 | WG2297782 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 7.36 | | 0.722 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| Arsenic | 170 | | 0.688 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| Barium | 1230 | | 0.113 | 0.664 | 1 | 06/09/2024 19:56 | WG2299939 |
| Beryllium | 0.275 | | 0.0418 | 0.266 | 1 | 06/09/2024 19:56 | WG2299939 |
| Cadmium | 3.60 | | 0.0625 | 0.664 | 1 | 06/09/2024 19:56 | WG2299939 |
| Chromium | 47.0 | | 0.177 | 1.33 | 1 | 06/09/2024 19:56 | WG2299939 |
| Cobalt | 11.7 | | 0.108 | 1.33 | 1 | 06/09/2024 19:56 | WG2299939 |
| Copper | 111 | | 0.531 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| Lead | 146 | | 0.276 | 0.664 | 1 | 06/09/2024 19:56 | WG2299939 |
| Molybdenum | 1.37 | | 0.145 | 0.664 | 1 | 06/09/2024 19:56 | WG2299939 |
| Nickel | 60.0 | | 0.175 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| Selenium | 5.21 | | 1.01 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| Silver | 0.383 | J | 0.169 | 1.33 | 1 | 06/10/2024 10:03 | WG2299939 |
| Thallium | U | | 0.523 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| Vanadium | 39.1 | | 0.672 | 2.66 | 1 | 06/09/2024 19:56 | WG2299939 |
| Zinc | 127 | | 1.10 | 6.64 | 1 | 06/09/2024 19:56 | WG2299939 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.56 | J | 1.38 | 4.16 | 25 | 06/06/2024 04:10 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/06/2024 04:10* | WG2299409 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| C12-C22 Hydrocarbons | 3.80 | J | 0.973 | 5.31 | 1 | 06/13/2024 14:23 | WG2303234 |
| C22-C32 Hydrocarbons | 19.6 | | 1.77 | 5.31 | 1 | 06/13/2024 14:23 | WG2303234 |
| C32-C40 Hydrocarbons | 18.7 | | 1.77 | 5.31 | 1 | 06/13/2024 14:23 | WG2303234 |
| *(S) o-Terphenyl* | *68.0* | | | *18.0-148* | | *06/13/2024 14:23* | WG2303234 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.0143 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Acenaphthylene | U | | 0.0125 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Anthracene | U | | 0.0158 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Benzidine | U | J3 J6 | 0.166 | 4.43 | 2 | 06/14/2024 01:07 | WG2303251 |
| Benzo(a)anthracene | U | | 0.0155 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.0165 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.0157 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.0162 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Benzo(a)pyrene | U | | 0.0165 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Bis(2-chlorethoxy)methane | U | | 0.0266 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0292 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0382 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0311 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.0155 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0308 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Chrysene | U | | 0.0175 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0246 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0262 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0268 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0263 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0327 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0254 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0289 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Fluoranthene | U | | 0.0159 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Fluorene | U | | 0.0143 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Hexachlorobenzene | U | | 0.0313 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0297 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0465 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Hexachloroethane | U | | 0.0348 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0250 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Isophorone | U | | 0.0271 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Naphthalene | U | | 0.0222 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Nitrobenzene | U | | 0.0308 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.131 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0669 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0295 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Phenanthrene | U | | 0.0175 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0276 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.112 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0303 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Diethyl phthalate | U | | 0.0292 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Dimethyl phthalate | U | | 0.187 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0597 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Pyrene | U | | 0.0173 | 0.0884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0276 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0287 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2-Chlorophenol | U | | 0.0292 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0258 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0231 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.200 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.207 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2-Nitrophenol | U | | 0.0316 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 4-Nitrophenol | U | | 0.0276 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Pentachlorophenol | U | | 0.0238 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| Phenol | U | | 0.0356 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0284 | 0.884 | 2 | 06/14/2024 01:07 | WG2303251 |
| *(S) 2-Fluorophenol* | *78.0* | | | *12.0-120* | | *06/14/2024 01:07* | WG2303251 |
| *(S) Phenol-d5* | *72.9* | | | *10.0-120* | | *06/14/2024 01:07* | WG2303251 |
| *(S) Nitrobenzene-d5* | *58.0* | | | *10.0-122* | | *06/14/2024 01:07* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *71.2* | | | *15.0-120* | | *06/14/2024 01:07* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *72.0* | | | *10.0-127* | | *06/14/2024 01:07* | WG2303251 |
| *(S) p-Terphenyl-d14* | *82.0* | | | *10.0-120* | | *06/14/2024 01:07* | WG2303251 |

**Sample Narrative:**

L1741921-63 WG2303251: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.2 | | 1 | 06/13/2024 08:01 | WG2304168 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Arsenic | 5.29 | | 0.688 | 2.66 | 1 | 07/01/2024 20:20 | WG2315127 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.85 | B J | 1.51 | 4.54 | 28 | 06/13/2024 04:49 | WG2304093 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *06/13/2024 04:49* | WG2304093 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0663 | 0.0908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Acrylonitrile | U | | 0.00655 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Benzene | U | | 0.000848 | 0.00182 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Bromobenzene | U | | 0.00164 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Bromodichloromethane | U | | 0.00132 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Bromoform | U | | 0.00212 | 0.0454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Bromomethane | U | | 0.00358 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| n-Butylbenzene | U | | 0.00954 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| sec-Butylbenzene | U | | 0.00524 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| tert-Butylbenzene | U | | 0.00354 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Carbon tetrachloride | U | | 0.00164 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Chlorobenzene | U | | 0.000381 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Chlorodibromomethane | U | | 0.00111 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Chloroethane | U | | 0.00308 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Chloroform | U | | 0.00186 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Chloromethane | U | | 0.00790 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 2-Chlorotoluene | U | | 0.00157 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 4-Chlorotoluene | U | | 0.000817 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00709 | 0.0454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2-Dibromoethane | U | | 0.00118 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Dibromomethane | U | | 0.00136 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2-Dichlorobenzene | U | | 0.000772 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,3-Dichlorobenzene | U | | 0.00109 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,4-Dichlorobenzene | U | | 0.00127 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Dichlorodifluoromethane | U | | 0.00292 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,1-Dichloroethane | U | | 0.000892 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2-Dichloroethane | U | | 0.00118 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,1-Dichloroethene | U | | 0.00110 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| cis-1,2-Dichloroethene | U | | 0.00133 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| trans-1,2-Dichloroethene | U | | 0.00188 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2-Dichloropropane | U | | 0.00258 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,1-Dichloropropene | U | | 0.00147 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,3-Dichloropropane | U | | 0.000910 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| cis-1,3-Dichloropropene | U | | 0.00138 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| trans-1,3-Dichloropropene | U | | 0.00208 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 2,2-Dichloropropane | U | | 0.00251 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Di-isopropyl ether | U | | 0.000744 | 0.00182 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Ethylbenzene | 0.00381 | J | 0.00134 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.0109 | 0.0454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Isopropylbenzene | U | | 0.000772 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| p-Isopropyltoluene | U | | 0.00464 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 2-Butanone (MEK) | U | | 0.115 | 0.182 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Methylene Chloride | 0.0389 | J | 0.0121 | 0.0454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00414 | 0.0454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Methyl tert-butyl ether | U | | 0.000636 | 0.00182 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Naphthalene | U | | 0.00887 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| n-Propylbenzene | U | | 0.00172 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Styrene | U | | 0.000415 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00172 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00126 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00137 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Tetrachloroethene | U | | 0.00162 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Toluene | 0.0103 | | 0.00237 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2,3-Trichlorobenzene | U | | 0.0133 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2,4-Trichlorobenzene | U | | 0.00799 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,1,1-Trichloroethane | U | | 0.00167 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,1,2-Trichloroethane | U | | 0.00108 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Trichloroethene | U | | 0.00106 | 0.00182 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Trichlorofluoromethane | U | | 0.00150 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2,3-Trichloropropane | U | | 0.00294 | 0.0227 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2,4-Trimethylbenzene | U | | 0.00287 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,2,3-Trimethylbenzene | U | | 0.00287 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| 1,3,5-Trimethylbenzene | U | | 0.00363 | 0.00908 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Vinyl chloride | U | | 0.00211 | 0.00454 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| Xylenes, Total | 0.0185 | | 0.00160 | 0.0118 | 1.12 | 06/13/2024 03:28 | WG2304116 |
| *(S) Toluene-d8* | *114* | | | *75.0-131* | | *06/13/2024 03:28* | WG2304116 |
| *(S) 4-Bromofluorobenzene* | *96.5* | | | *67.0-138* | | *06/13/2024 03:28* | WG2304116 |
| *(S) 1,2-Dichloroethane-d4* | *103* | | | *70.0-130* | | *06/13/2024 03:28* | WG2304116 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.974 | 5.32 | 1 | 06/14/2024 02:58 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.77 | 5.32 | 1 | 06/14/2024 02:58 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.77 | 5.32 | 1 | 06/14/2024 02:58 | WG2304127 |
| *(S) o-Terphenyl* | *56.5* | | | *18.0-148* | | *06/14/2024 02:58* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00716 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Acenaphthylene | U | | 0.00623 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Anthracene | U | | 0.00788 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Benzidine | U | | 0.0832 | 2.22 | 1 | 06/13/2024 21:48 | WG2304128 |
| Benzo(a)anthracene | U | | 0.00780 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Benzo(b)fluoranthene | 0.0113 | J | 0.00825 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.00787 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.00809 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Benzo(a)pyrene | 0.00880 | J | 0.00823 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0133 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0146 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0191 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0156 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Chloronaphthalene | U | | 0.00778 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0154 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Chrysene | 0.00882 | J | 0.00880 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0123 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0131 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0134 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 1,4-Dichlorobenzene | U | | 0.0132 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0163 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0127 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0145 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Fluoranthene | 0.0132 | J | 0.00799 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Fluorene | U | | 0.00720 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Hexachlorobenzene | U | | 0.0157 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0149 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0233 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Hexachloroethane | U | | 0.0174 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0125 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Isophorone | U | | 0.0136 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Naphthalene | U | | 0.0111 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Nitrobenzene | U | | 0.0154 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.0657 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0335 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0148 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Phenanthrene | 0.0218 | J | 0.00879 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0138 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0561 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0152 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Diethyl phthalate | U | | 0.0146 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Dimethyl phthalate | U | | 0.0938 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0299 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Pyrene | 0.0142 | J | 0.00861 | 0.0443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0138 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0144 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2-Chlorophenol | U | | 0.0146 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0129 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0116 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.100 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.104 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2-Nitrophenol | U | | 0.0158 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 4-Nitrophenol | U | | 0.0138 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Pentachlorophenol | U | | 0.0119 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| Phenol | U | | 0.0178 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0142 | 0.443 | 1 | 06/13/2024 21:48 | WG2304128 |
| *(S) 2-Fluorophenol* | *56.6* | | | *12.0-120* | | *06/13/2024 21:48* | WG2304128 |
| *(S) Phenol-d5* | *49.2* | | | *10.0-120* | | *06/13/2024 21:48* | WG2304128 |
| *(S) Nitrobenzene-d5* | *51.7* | | | *10.0-122* | | *06/13/2024 21:48* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *58.9* | | | *15.0-120* | | *06/13/2024 21:48* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *47.5* | | | *10.0-127* | | *06/13/2024 21:48* | WG2304128 |
| *(S) p-Terphenyl-d14* | *60.2* | | | *10.0-120* | | *06/13/2024 21:48* | WG2304128 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 76.2 | | 1 | 06/03/2024 15:22 | WG2297639 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | | 1.39 | 4.19 | 25 | 06/06/2024 04:31 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/06/2024 04:31* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0612 | 0.0838 | 1 | 06/11/2024 21:21 | WG2303036 |
| Acrylonitrile | U | | 0.00605 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| Benzene | U | | 0.000783 | 0.00168 | 1 | 06/11/2024 21:21 | WG2303036 |
| Bromobenzene | U | | 0.00151 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| Bromodichloromethane | U | | 0.00121 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Bromoform | U | | 0.00196 | 0.0419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Bromomethane | U | | 0.00330 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| n-Butylbenzene | U | | 0.00880 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| sec-Butylbenzene | U | | 0.00483 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| tert-Butylbenzene | U | | 0.00327 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| Carbon tetrachloride | U | | 0.00150 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| Chlorobenzene | U | | 0.000352 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Chlorodibromomethane | U | | 0.00103 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Chloroethane | U | | 0.00285 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| Chloroform | U | | 0.00173 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Chloromethane | U | | 0.00729 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| 2-Chlorotoluene | U | | 0.00145 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000754 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00654 | 0.0419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.00109 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Dibromomethane | U | | 0.00126 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000712 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.00101 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.00117 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| Dichlorodifluoromethane | U | | 0.00270 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000823 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.00109 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.00102 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.00123 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00174 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00238 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.00136 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000840 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.00127 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00191 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00231 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Di-isopropyl ether | U | | 0.000687 | 0.00168 | 1 | 06/11/2024 21:21 | WG2303036 |
| Ethylbenzene | U | | 0.00123 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.0101 | 0.0419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Isopropylbenzene | U | | 0.000712 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| p-Isopropyltoluene | U | | 0.00427 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.106 | 0.168 | 1 | 06/11/2024 21:21 | WG2303036 |
| Methylene Chloride | U | | 0.0111 | 0.0419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00382 | 0.0419 | 1 | 06/11/2024 21:21 | WG2303036 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000586 | 0.00168 | 1 | 06/11/2024 21:21 | WG2303036 |
| Naphthalene | U | | 0.00818 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| n-Propylbenzene | U | | 0.00159 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| Styrene | U | | 0.000384 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00159 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00116 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00126 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Tetrachloroethene | U | | 0.00150 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Toluene | U | | 0.00218 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.0123 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00737 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00155 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.00100 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Trichloroethene | U | | 0.000979 | 0.00168 | 1 | 06/11/2024 21:21 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00139 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00271 | 0.0209 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2,4-Trimethylbenzene | U | | 0.00265 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,2,3-Trimethylbenzene | U | | 0.00265 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.00335 | 0.00838 | 1 | 06/11/2024 21:21 | WG2303036 |
| Vinyl chloride | U | | 0.00194 | 0.00419 | 1 | 06/11/2024 21:21 | WG2303036 |
| Xylenes, Total | U | | 0.00147 | 0.0109 | 1 | 06/11/2024 21:21 | WG2303036 |
| *(S) Toluene-d8* | *98.1* | | | *75.0-131* | | *06/11/2024 21:21* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/11/2024 21:21* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *91.4* | | | *70.0-130* | | *06/11/2024 21:21* | WG2303036 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 2.42 | J | 0.962 | 5.25 | 1 | 06/13/2024 12:27 | WG2303234 |
| C22-C32 Hydrocarbons | 2.72 | J | 1.75 | 5.25 | 1 | 06/13/2024 12:27 | WG2303234 |
| C32-C40 Hydrocarbons | 2.26 | J | 1.75 | 5.25 | 1 | 06/13/2024 12:27 | WG2303234 |
| *(S) o-Terphenyl* | *54.7* | | | *18.0-148* | | *06/13/2024 12:27* | WG2303234 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.0 | | 1 | 06/13/2024 08:01 | WG2304168 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.30 | B J | 1.22 | 3.69 | 25 | 06/13/2024 05:12 | WG2304093 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *06/13/2024 05:12* | WG2304093 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0538 | 0.0737 | 1 | 06/13/2024 03:49 | WG2304116 |
| Acrylonitrile | U | | 0.00532 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| Benzene | U | | 0.000689 | 0.00147 | 1 | 06/13/2024 03:49 | WG2304116 |
| Bromobenzene | U | | 0.00133 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| Bromodichloromethane | U | | 0.00107 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Bromoform | U | | 0.00173 | 0.0369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Bromomethane | U | | 0.00290 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| n-Butylbenzene | U | | 0.00774 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| sec-Butylbenzene | U | | 0.00425 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| tert-Butylbenzene | U | | 0.00288 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| Carbon tetrachloride | U | | 0.00132 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| Chlorobenzene | U | | 0.000310 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Chlorodibromomethane | U | | 0.000902 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Chloroethane | U | | 0.00251 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| Chloroform | U | | 0.00152 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Chloromethane | U | | 0.00641 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| 2-Chlorotoluene | U | | 0.00128 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 4-Chlorotoluene | U | | 0.000664 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00575 | 0.0369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2-Dibromoethane | U | | 0.000955 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Dibromomethane | U | | 0.00111 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2-Dichlorobenzene | U | | 0.000627 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,3-Dichlorobenzene | U | | 0.000885 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,4-Dichlorobenzene | U | | 0.00103 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| Dichlorodifluoromethane | U | | 0.00237 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,1-Dichloroethane | U | | 0.000724 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2-Dichloroethane | U | | 0.000957 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,1-Dichloroethene | U | | 0.000894 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| cis-1,2-Dichloroethene | U | | 0.00108 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| trans-1,2-Dichloroethene | U | | 0.00153 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2-Dichloropropane | U | | 0.00209 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,1-Dichloropropene | U | | 0.00119 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,3-Dichloropropane | U | | 0.000739 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| cis-1,3-Dichloropropene | U | | 0.00112 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| trans-1,3-Dichloropropene | U | | 0.00168 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 2,2-Dichloropropane | U | | 0.00203 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Di-isopropyl ether | U | | 0.000605 | 0.00147 | 1 | 06/13/2024 03:49 | WG2304116 |
| Ethylbenzene | U | | 0.00109 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Hexachloro-1,3-butadiene | U | | 0.00885 | 0.0369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Isopropylbenzene | U | | 0.000627 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| p-Isopropyltoluene | U | | 0.00376 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 2-Butanone (MEK) | U | | 0.0936 | 0.147 | 1 | 06/13/2024 03:49 | WG2304116 |
| Methylene Chloride | U | | 0.00979 | 0.0369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00336 | 0.0369 | 1 | 06/13/2024 03:49 | WG2304116 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000516 | 0.00147 | 1 | 06/13/2024 03:49 | WG2304116 |
| Naphthalene | U | | 0.00720 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| n-Propylbenzene | U | | 0.00140 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| Styrene | U | | 0.000338 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00140 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00102 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00111 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Tetrachloroethene | U | | 0.00132 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Toluene | U | | 0.00192 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2,3-Trichlorobenzene | U | | 0.0108 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2,4-Trichlorobenzene | U | | 0.00649 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,1,1-Trichloroethane | U | | 0.00136 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,1,2-Trichloroethane | U | | 0.000880 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Trichloroethene | U | | 0.000861 | 0.00147 | 1 | 06/13/2024 03:49 | WG2304116 |
| Trichlorofluoromethane | U | | 0.00122 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2,3-Trichloropropane | U | | 0.00239 | 0.0184 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2,4-Trimethylbenzene | U | | 0.00233 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,2,3-Trimethylbenzene | U | | 0.00233 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| 1,3,5-Trimethylbenzene | U | | 0.00295 | 0.00737 | 1 | 06/13/2024 03:49 | WG2304116 |
| Vinyl chloride | U | | 0.00171 | 0.00369 | 1 | 06/13/2024 03:49 | WG2304116 |
| Xylenes, Total | U | | 0.00130 | 0.00958 | 1 | 06/13/2024 03:49 | WG2304116 |
| *(S) Toluene-d8* | *114* | | | *75.0-131* | | *06/13/2024 03:49* | WG2304116 |
| *(S) 4-Bromofluorobenzene* | *95.4* | | | *67.0-138* | | *06/13/2024 03:49* | WG2304116 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *06/13/2024 03:49* | WG2304116 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.883 | 4.82 | 1 | 06/14/2024 00:34 | WG2304127 |
| C22-C32 Hydrocarbons | U | | 1.60 | 4.82 | 1 | 06/14/2024 00:34 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.60 | 4.82 | 1 | 06/14/2024 00:34 | WG2304127 |
| *(S) o-Terphenyl* | *64.3* | | | *18.0-148* | | *06/14/2024 00:34* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00649 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Acenaphthylene | U | | 0.00565 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Anthracene | U | | 0.00714 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Benzidine | U | | 0.0754 | 2.01 | 1 | 06/13/2024 22:30 | WG2304128 |
| Benzo(a)anthracene | U | | 0.00707 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Benzo(b)fluoranthene | U | | 0.00748 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.00713 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.00733 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Benzo(a)pyrene | U | | 0.00745 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0120 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0132 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0173 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0141 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.00704 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0140 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Chrysene | U | | 0.00797 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0111 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0119 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0122 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0119 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0148 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0115 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0131 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Fluoranthene | U | | 0.00724 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Fluorene | U | | 0.00653 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Hexachlorobenzene | U | | 0.0142 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0135 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0211 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Hexachloroethane | U | | 0.0158 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0113 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Isophorone | U | | 0.0123 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Naphthalene | U | | 0.0101 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Nitrobenzene | U | | 0.0140 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.0595 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0303 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0134 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Phenanthrene | U | | 0.00796 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0125 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0508 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0137 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Diethyl phthalate | U | | 0.0132 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Dimethyl phthalate | U | | 0.0850 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0271 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Pyrene | U | | 0.00780 | 0.0401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0125 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0130 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2-Chlorophenol | U | | 0.0132 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0117 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0105 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0909 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.0938 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2-Nitrophenol | U | | 0.0143 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 4-Nitrophenol | U | | 0.0125 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Pentachlorophenol | U | | 0.0108 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| Phenol | U | | 0.0161 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0129 | 0.401 | 1 | 06/13/2024 22:30 | WG2304128 |
| *(S) 2-Fluorophenol* | *60.8* | | | *12.0-120* | | *06/13/2024 22:30* | WG2304128 |
| *(S) Phenol-d5* | *54.9* | | | *10.0-120* | | *06/13/2024 22:30* | WG2304128 |
| *(S) Nitrobenzene-d5* | *53.8* | | | *10.0-122* | | *06/13/2024 22:30* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *66.4* | | | *15.0-120* | | *06/13/2024 22:30* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *50.5* | | | *10.0-127* | | *06/13/2024 22:30* | WG2304128 |
| *(S) p-Terphenyl-d14* | *67.6* | | | *10.0-120* | | *06/13/2024 22:30* | WG2304128 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 89.3 | | 1 | 06/03/2024 16:12 | WG2297640 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0455 | 0.0623 | 1 | 06/11/2024 21:40 | WG2303036 |
| Acrylonitrile | U | | 0.00450 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| Benzene | U | | 0.000582 | 0.00125 | 1 | 06/11/2024 21:40 | WG2303036 |
| Bromobenzene | U | | 0.00112 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| Bromodichloromethane | U | | 0.000904 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Bromoform | U | | 0.00146 | 0.0312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Bromomethane | U | | 0.00246 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| n-Butylbenzene | U | | 0.00654 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| sec-Butylbenzene | U | | 0.00359 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| tert-Butylbenzene | U | | 0.00243 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| Carbon tetrachloride | U | | 0.00112 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| Chlorobenzene | U | | 0.000262 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Chlorodibromomethane | U | | 0.000763 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Chloroethane | U | | 0.00212 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| Chloroform | U | | 0.00128 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Chloromethane | U | | 0.00542 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| 2-Chlorotoluene | U | | 0.00108 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000561 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00486 | 0.0312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.000808 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Dibromomethane | U | | 0.000935 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000530 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.000748 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.000873 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| Dichlorodifluoromethane | U | | 0.00201 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000612 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.000809 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.000755 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.000915 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00130 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00177 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.00101 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000625 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.000944 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00142 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00172 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Di-isopropyl ether | U | | 0.000511 | 0.00125 | 1 | 06/11/2024 21:40 | WG2303036 |
| Ethylbenzene | U | | 0.000919 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.00748 | 0.0312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Isopropylbenzene | U | | 0.000530 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| p-Isopropyltoluene | U | | 0.00318 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.0792 | 0.125 | 1 | 06/11/2024 21:40 | WG2303036 |
| Methylene Chloride | U | | 0.00828 | 0.0312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00284 | 0.0312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Methyl tert-butyl ether | U | | 0.000436 | 0.00125 | 1 | 06/11/2024 21:40 | WG2303036 |
| Naphthalene | U | | 0.00608 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| n-Propylbenzene | U | | 0.00118 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| Styrene | U | | 0.000285 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00118 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000866 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000940 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Tetrachloroethene | U | | 0.00112 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Toluene | U | | 0.00162 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.00914 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00549 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00115 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.000744 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Trichloroethene | U | | 0.000728 | 0.00125 | 1 | 06/11/2024 21:40 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00103 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00202 | 0.0156 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2,4-Trimethylbenzene | U | | 0.00197 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,2,3-Trimethylbenzene | U | | 0.00197 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.00249 | 0.00623 | 1 | 06/11/2024 21:40 | WG2303036 |
| Vinyl chloride | U | | 0.00145 | 0.00312 | 1 | 06/11/2024 21:40 | WG2303036 |
| Xylenes, Total | U | | 0.00110 | 0.00810 | 1 | 06/11/2024 21:40 | WG2303036 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/11/2024 21:40* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/11/2024 21:40* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *89.9* | | | *70.0-130* | | *06/11/2024 21:40* | WG2303036 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 81.5 | | 1 | 06/04/2024 17:22 | WG2298445 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0311 | J | 0.0221 | 0.0491 | 1 | 06/07/2024 18:26 | WG2298562 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.33 | J | 0.667 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| Arsenic | 3.66 | | 0.635 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| Barium | 237 | | 0.104 | 0.613 | 1 | 06/11/2024 18:31 | WG2299845 |
| Beryllium | 0.509 | | 0.0386 | 0.245 | 1 | 06/11/2024 18:31 | WG2299845 |
| Cadmium | 0.0779 | J | 0.0578 | 0.613 | 1 | 06/11/2024 18:31 | WG2299845 |
| Chromium | 42.9 | | 0.163 | 1.23 | 1 | 06/11/2024 18:31 | WG2299845 |
| Cobalt | 14.6 | | 0.0995 | 1.23 | 1 | 06/11/2024 18:31 | WG2299845 |
| Copper | 29.0 | | 0.491 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| Lead | 37.8 | | 0.255 | 0.613 | 1 | 06/11/2024 18:31 | WG2299845 |
| Molybdenum | U | | 0.134 | 0.613 | 1 | 06/11/2024 18:31 | WG2299845 |
| Nickel | 50.0 | | 0.162 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| Selenium | U | | 0.937 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| Silver | U | | 0.156 | 1.23 | 1 | 06/11/2024 18:31 | WG2299845 |
| Thallium | U | | 0.483 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| Vanadium | 48.9 | | 0.621 | 2.45 | 1 | 06/11/2024 18:31 | WG2299845 |
| Zinc | 68.3 | | 1.02 | 6.13 | 1 | 06/11/2024 18:31 | WG2299845 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0145 | 0.0417 | 1 | 06/13/2024 13:28 | WG2303247 |
| PCB 1221 | U | | 0.0145 | 0.0417 | 1 | 06/13/2024 13:28 | WG2303247 |
| PCB 1232 | U | | 0.0145 | 0.0417 | 1 | 06/13/2024 13:28 | WG2303247 |
| PCB 1242 | U | | 0.0145 | 0.0417 | 1 | 06/13/2024 13:28 | WG2303247 |
| PCB 1248 | U | | 0.00905 | 0.0208 | 1 | 06/13/2024 13:28 | WG2303247 |
| PCB 1254 | U | | 0.00905 | 0.0208 | 1 | 06/13/2024 13:28 | WG2303247 |
| PCB 1260 | U | | 0.00905 | 0.0208 | 1 | 06/13/2024 13:28 | WG2303247 |
| *(S) Decachlorobiphenyl* | *53.9* | | | *10.0-135* | | *06/13/2024 13:28* | WG2303247 |
| *(S) Tetrachloro-m-xylene* | *52.2* | | | *10.0-139* | | *06/13/2024 13:28* | WG2303247 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acenaphthene | U | | 0.00661 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Acenaphthylene | U | | 0.00575 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Anthracene | U | | 0.00727 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Benzidine | U | | 0.0768 | 2.05 | 1 | 06/13/2024 23:54 | WG2303251 |
| Benzo(a)anthracene | U | | 0.00720 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Benzo(b)fluoranthene | U | | 0.00762 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.00726 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Benzo(g,h,i)perylene | U | | 0.00747 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Benzo(a)pyrene | U | | 0.00759 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.0123 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.0135 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0177 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.0143 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.00717 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.0142 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Chrysene | U | | 0.00812 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0113 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.0121 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.0124 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.0122 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.0151 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.0117 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.0134 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Fluoranthene | U | | 0.00737 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Fluorene | U | | 0.00665 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Hexachlorobenzene | U | | 0.0145 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.0137 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.0215 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Hexachloroethane | U | | 0.0161 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0115 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Isophorone | U | | 0.0125 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Naphthalene | 0.0278 | J | 0.0103 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Nitrobenzene | U | | 0.0142 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.0606 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.0309 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.0136 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Phenanthrene | U | | 0.00811 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.0128 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0518 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.0140 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Diethyl phthalate | U | | 0.0135 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Dimethyl phthalate | U | | 0.0866 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.0276 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Pyrene | U | | 0.00795 | 0.0408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.0128 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.0132 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2-Chlorophenol | U | | 0.0135 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.0119 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0107 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0926 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.0955 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2-Nitrophenol | U | | 0.0146 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 4-Nitrophenol | U | | 0.0128 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Pentachlorophenol | U | | 0.0110 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| Phenol | U | | 0.0164 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.0131 | 0.408 | 1 | 06/13/2024 23:54 | WG2303251 |
| *(S) 2-Fluorophenol* | *74.2* | | | *12.0-120* | | *06/13/2024 23:54* | WG2303251 |
| *(S) Phenol-d5* | *70.0* | | | *10.0-120* | | *06/13/2024 23:54* | WG2303251 |
| *(S) Nitrobenzene-d5* | *57.8* | | | *10.0-122* | | *06/13/2024 23:54* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *66.1* | | | *15.0-120* | | *06/13/2024 23:54* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *66.9* | | | *10.0-127* | | *06/13/2024 23:54* | WG2303251 |
| *(S) p-Terphenyl-d14* | *73.9* | | | *10.0-120* | | *06/13/2024 23:54* | WG2303251 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 93.1 | | 1 | 06/04/2024 17:22 | WG2298445 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0486 | | 0.0193 | 0.0430 | 1 | 06/07/2024 18:29 | WG2298562 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 1.32 | J | 0.584 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| Arsenic | 1.47 | J | 0.556 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| Barium | 105 | | 0.0915 | 0.537 | 1 | 06/11/2024 18:34 | WG2299845 |
| Beryllium | 0.167 | J | 0.0338 | 0.215 | 1 | 06/11/2024 18:34 | WG2299845 |
| Cadmium | 0.219 | J | 0.0506 | 0.537 | 1 | 06/11/2024 18:34 | WG2299845 |
| Chromium | 12.8 | | 0.143 | 1.07 | 1 | 06/11/2024 18:34 | WG2299845 |
| Cobalt | 5.63 | | 0.0871 | 1.07 | 1 | 06/11/2024 18:34 | WG2299845 |
| Copper | 30.8 | | 0.430 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| Lead | 58.6 | | 0.223 | 0.537 | 1 | 06/11/2024 18:34 | WG2299845 |
| Molybdenum | 0.249 | J | 0.117 | 0.537 | 1 | 06/11/2024 18:34 | WG2299845 |
| Nickel | 18.3 | | 0.142 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| Selenium | 1.10 | J | 0.821 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| Silver | U | | 0.136 | 1.07 | 1 | 06/11/2024 18:34 | WG2299845 |
| Thallium | U | | 0.423 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| Vanadium | 20.7 | | 0.543 | 2.15 | 1 | 06/11/2024 18:34 | WG2299845 |
| Zinc | 86.7 | | 0.894 | 5.37 | 1 | 06/11/2024 18:34 | WG2299845 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0425 | 0.0583 | 1 | 06/11/2024 21:59 | WG2303036 |
| Acrylonitrile | U | | 0.00421 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| Benzene | 0.00850 | | 0.000544 | 0.00117 | 1 | 06/11/2024 21:59 | WG2303036 |
| Bromobenzene | U | | 0.00105 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| Bromodichloromethane | U | | 0.000845 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Bromoform | U | | 0.00136 | 0.0291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Bromomethane | U | | 0.00230 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| n-Butylbenzene | U | | 0.00612 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| sec-Butylbenzene | U | | 0.00336 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| tert-Butylbenzene | U | | 0.00227 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| Carbon tetrachloride | U | | 0.00105 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| Chlorobenzene | U | | 0.000245 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Chlorodibromomethane | U | | 0.000713 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Chloroethane | U | | 0.00198 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| Chloroform | U | | 0.00120 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Chloromethane | U | | 0.00507 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| 2-Chlorotoluene | U | | 0.00101 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000524 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00454 | 0.0291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.000755 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Dibromomethane | U | | 0.000874 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000495 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.000699 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.000816 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | | 0.00188 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000572 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.000756 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.000706 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.000855 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00121 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00165 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.000943 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000584 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.000882 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00133 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00161 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Di-isopropyl ether | U | | 0.000478 | 0.00117 | 1 | 06/11/2024 21:59 | WG2303036 |
| Ethylbenzene | 0.00371 | | 0.000859 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.00699 | 0.0291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Isopropylbenzene | 0.00559 | | 0.000495 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| p-Isopropyltoluene | 0.00302 | J | 0.00297 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.0740 | 0.117 | 1 | 06/11/2024 21:59 | WG2303036 |
| Methylene Chloride | U | | 0.00774 | 0.0291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00266 | 0.0291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Methyl tert-butyl ether | U | | 0.000408 | 0.00117 | 1 | 06/11/2024 21:59 | WG2303036 |
| Naphthalene | U | | 0.00569 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| n-Propylbenzene | 0.00327 | J | 0.00111 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| Styrene | U | | 0.000267 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00110 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000810 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000879 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Tetrachloroethene | U | | 0.00104 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Toluene | 0.00677 | | 0.00151 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.00854 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00513 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00108 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.000696 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Trichloroethene | U | | 0.000681 | 0.00117 | 1 | 06/11/2024 21:59 | WG2303036 |
| Trichlorofluoromethane | U | | 0.000964 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00189 | 0.0146 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2,4-Trimethylbenzene | 0.00894 | | 0.00184 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,2,3-Trimethylbenzene | 0.00509 | J | 0.00184 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| 1,3,5-Trimethylbenzene | 0.00861 | | 0.00233 | 0.00583 | 1 | 06/11/2024 21:59 | WG2303036 |
| Vinyl chloride | U | | 0.00135 | 0.00291 | 1 | 06/11/2024 21:59 | WG2303036 |
| Xylenes, Total | 0.0556 | | 0.00103 | 0.00757 | 1 | 06/11/2024 21:59 | WG2303036 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/11/2024 21:59* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/11/2024 21:59* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *88.7* | | | *70.0-130* | | *06/11/2024 21:59* | WG2303036 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0579 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Acenaphthylene | U | | 0.0504 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Anthracene | U | | 0.0637 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Benzidine | U | | 0.672 | 17.9 | 10 | 06/14/2024 03:58 | WG2303251 |
| Benzo(a)anthracene | 0.126 | J | 0.0630 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Benzo(b)fluoranthene | 0.161 | J | 0.0667 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Benzo(k)fluoranthene | U | | 0.0636 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Benzo(g,h,i)perylene | 0.115 | J | 0.0654 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 0.213 | J | 0.0665 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.107 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.118 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.155 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.126 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.0628 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.125 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Chrysene | 0.209 | J | 0.0711 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Dibenz(a,h)anthracene | U | | 0.0991 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.106 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.108 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.106 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.132 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.103 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.117 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Fluoranthene | 0.0949 | J | 0.0645 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Fluorene | U | | 0.0582 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Hexachlorobenzene | U | | 0.127 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.120 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.188 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Hexachloroethane | U | | 0.141 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | U | | 0.101 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Isophorone | U | | 0.110 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Naphthalene | U | | 0.0898 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Nitrobenzene | U | | 0.125 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| n-Nitrosodimethylamine | U | | 0.531 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.271 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.119 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Phenanthrene | 0.207 | J | 0.0710 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.112 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 0.453 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.122 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Diethyl phthalate | U | | 0.118 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Dimethyl phthalate | U | | 0.758 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.242 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Pyrene | 0.258 | J | 0.0696 | 0.358 | 10 | 06/14/2024 03:58 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.112 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.116 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2-Chlorophenol | U | | 0.118 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.104 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2,4-Dimethylphenol | U | | 0.0934 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 0.811 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2,4-Dinitrophenol | U | | 0.837 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2-Nitrophenol | U | | 0.128 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 4-Nitrophenol | U | | 0.112 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Pentachlorophenol | U | | 0.0962 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| Phenol | U | | 0.144 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.115 | 3.58 | 10 | 06/14/2024 03:58 | WG2303251 |
| *(S) 2-Fluorophenol* | *70.0* | | | *12.0-120* | | *06/14/2024 03:58* | WG2303251 |
| *(S) Phenol-d5* | *69.2* | | | *10.0-120* | | *06/14/2024 03:58* | WG2303251 |
| *(S) Nitrobenzene-d5* | *50.3* | | | *10.0-122* | | *06/14/2024 03:58* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *64.7* | | | *15.0-120* | | *06/14/2024 03:58* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *59.8* | | | *10.0-127* | | *06/14/2024 03:58* | WG2303251 |
| *(S) p-Terphenyl-d14* | *71.9* | | | *10.0-120* | | *06/14/2024 03:58* | WG2303251 |

**Sample Narrative:**

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|

L1741921-69 WG2303251: Dilution due to matrix impact during extract concentration procedure.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 75.4 | | 1 | 06/04/2024 17:22 | WG2298445 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0546 | | 0.0239 | 0.0531 | 1 | 06/07/2024 18:32 | WG2298562 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 1.68 | J | 0.722 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| Arsenic | 3.72 | | 0.687 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| Barium | 323 | | 0.113 | 0.663 | 1 | 06/11/2024 18:37 | WG2299845 |
| Beryllium | 0.785 | | 0.0418 | 0.265 | 1 | 06/11/2024 18:37 | WG2299845 |
| Cadmium | 0.145 | J | 0.0625 | 0.663 | 1 | 06/11/2024 18:37 | WG2299845 |
| Chromium | 44.6 | | 0.176 | 1.33 | 1 | 06/11/2024 18:37 | WG2299845 |
| Cobalt | 14.5 | | 0.108 | 1.33 | 1 | 06/11/2024 18:37 | WG2299845 |
| Copper | 35.7 | | 0.531 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| Lead | 33.1 | | 0.276 | 0.663 | 1 | 06/11/2024 18:37 | WG2299845 |
| Molybdenum | U | | 0.145 | 0.663 | 1 | 06/11/2024 18:37 | WG2299845 |
| Nickel | 62.0 | | 0.175 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| Selenium | 2.40 | J | 1.01 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| Silver | U | | 0.168 | 1.33 | 1 | 06/11/2024 18:37 | WG2299845 |
| Thallium | U | | 0.523 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| Vanadium | 50.7 | | 0.671 | 2.65 | 1 | 06/11/2024 18:37 | WG2299845 |
| Zinc | 66.0 | | 1.10 | 6.63 | 1 | 06/11/2024 18:37 | WG2299845 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 348 | | 2.98 | 8.99 | 55.5 | 06/11/2024 13:29 | WG2302673 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *105* | | | *77.0-120* | | *06/11/2024 13:29* | WG2302673 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.489 | 0.670 | 8 | 06/11/2024 22:55 | WG2303036 |
| Acrylonitrile | U | | 0.0484 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| Benzene | 0.0110 | J | 0.00627 | 0.0134 | 8 | 06/11/2024 22:55 | WG2303036 |
| Bromobenzene | U | | 0.0121 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| Bromodichloromethane | U | | 0.00972 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Bromoform | U | | 0.0157 | 0.335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Bromomethane | U | | 0.0265 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| n-Butylbenzene | U | | 0.0704 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| sec-Butylbenzene | 0.0583 | J | 0.0385 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| tert-Butylbenzene | U | | 0.0261 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| Carbon tetrachloride | U | | 0.0120 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| Chlorobenzene | U | | 0.00282 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Chlorodibromomethane | U | | 0.00821 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Chloroethane | U | | 0.0228 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| Chloroform | U | | 0.0138 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Chloromethane | U | | 0.0583 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| 2-Chlorotoluene | U | | 0.0116 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 4-Chlorotoluene | U | | 0.00603 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.0523 | 0.335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.00868 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Dibromomethane | U | | 0.0101 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.00570 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.00804 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.00938 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| Dichlorodifluoromethane | U | | 0.0216 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.00659 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.00870 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.00813 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.00984 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.0139 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.0191 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.0108 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.00672 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.0102 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.0153 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.0184 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Di-isopropyl ether | U | | 0.00550 | 0.0134 | 8 | 06/11/2024 22:55 | WG2303036 |
| Ethylbenzene | 0.0769 | | 0.00989 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.0804 | 0.335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Isopropylbenzene | 0.226 | | 0.00570 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| p-Isopropyltoluene | U | | 0.0342 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.851 | 1.34 | 8 | 06/11/2024 22:55 | WG2303036 |
| Methylene Chloride | U | | 0.0890 | 0.335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0305 | 0.335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Methyl tert-butyl ether | U | | 0.00469 | 0.0134 | 8 | 06/11/2024 22:55 | WG2303036 |
| Naphthalene | U | | 0.0654 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| n-Propylbenzene | 0.167 | | 0.0127 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| Styrene | U | | 0.00307 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0127 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00932 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0101 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Tetrachloroethene | U | | 0.0120 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Toluene | 0.0880 | | 0.0174 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.0982 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.0590 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.0124 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.00801 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Trichloroethene | U | | 0.00783 | 0.0134 | 8 | 06/11/2024 22:55 | WG2303036 |
| Trichlorofluoromethane | U | | 0.0111 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.0218 | 0.168 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2,4-Trimethylbenzene | 0.0434 | J | 0.0211 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,2,3-Trimethylbenzene | 0.0932 | | 0.0211 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| 1,3,5-Trimethylbenzene | U | | 0.0268 | 0.0670 | 8 | 06/11/2024 22:55 | WG2303036 |
| Vinyl chloride | U | | 0.0156 | 0.0335 | 8 | 06/11/2024 22:55 | WG2303036 |
| Xylenes, Total | 0.300 | | 0.0118 | 0.0871 | 8 | 06/11/2024 22:55 | WG2303036 |
| *(S) Toluene-d8* | *98.4* | | | *75.0-131* | | *06/11/2024 22:55* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/11/2024 22:55* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *89.7* | | | *70.0-130* | | *06/11/2024 22:55* | WG2303036 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 6.59 | | 0.972 | 5.31 | 1 | 06/13/2024 13:25 | WG2303234 |
| C22-C32 Hydrocarbons | 28.7 | | 1.76 | 5.31 | 1 | 06/13/2024 13:25 | WG2303234 |
| C32-C40 Hydrocarbons | 11.7 | | 1.76 | 5.31 | 1 | 06/13/2024 13:25 | WG2303234 |
| *(S) o-Terphenyl* | *34.1* | | | *18.0-148* | | *06/13/2024 13:25* | WG2303234 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.533 | J | 0.143 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Acenaphthylene | U | | 0.124 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Anthracene | 0.247 | J | 0.158 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Benzidine | U | | 1.66 | 44.3 | 20 | 06/14/2024 02:45 | WG2303251 |
| Benzo(a)anthracene | 3.37 | | 0.155 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Benzo(b)fluoranthene | 1.37 | | 0.165 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Benzo(k)fluoranthene | 0.256 | J | 0.157 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Benzo(g,h,i)perylene | 0.773 | J | 0.162 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Benzo(a)pyrene | 2.84 | | 0.165 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Bis(2-chlorethoxy)methane | U | | 0.265 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Bis(2-chloroethyl)ether | U | | 0.292 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.382 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 4-Bromophenyl-phenylether | U | | 0.310 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2-Chloronaphthalene | U | | 0.155 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| 4-Chlorophenyl-phenylether | U | | 0.308 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Chrysene | 3.54 | | 0.175 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Dibenz(a,h)anthracene | 0.696 | J | 0.245 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| 1,2-Dichlorobenzene | U | | 0.261 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 1,3-Dichlorobenzene | U | | 0.268 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 1,4-Dichlorobenzene | U | | 0.263 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 3,3-Dichlorobenzidine | U | | 0.326 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2,4-Dinitrotoluene | U | | 0.253 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2,6-Dinitrotoluene | U | | 0.289 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Fluoranthene | 0.638 | J | 0.159 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Fluorene | 0.895 | | 0.143 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Hexachlorobenzene | U | | 0.313 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Hexachloro-1,3-butadiene | U | | 0.297 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Hexachlorocyclopentadiene | U | | 0.464 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Hexachloroethane | U | | 0.348 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Indeno(1,2,3-cd)pyrene | 0.287 | J | 0.249 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Isophorone | U | | 0.271 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Naphthalene | 5.57 | | 0.222 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Nitrobenzene | U | | 0.308 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| n-Nitrosodimethylamine | U | | 1.31 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| n-Nitrosodiphenylamine | U | | 0.669 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| n-Nitrosodi-n-propylamine | U | | 0.295 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Phenanthrene | 2.35 | | 0.175 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| Benzylbutyl phthalate | U | | 0.276 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Bis(2-ethylhexyl)phthalate | U | | 1.12 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Di-n-butyl phthalate | U | | 0.302 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Diethyl phthalate | U | | 0.292 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Dimethyl phthalate | U | | 1.87 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Di-n-octyl phthalate | U | | 0.597 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Pyrene | 2.19 | | 0.172 | 0.884 | 20 | 06/14/2024 02:45 | WG2303251 |
| 1,2,4-Trichlorobenzene | U | | 0.276 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 4-Chloro-3-methylphenol | U | | 0.287 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2-Chlorophenol | U | | 0.292 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2,4-Dichlorophenol | U | | 0.257 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.231 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 4,6-Dinitro-2-methylphenol | U | | 2.00 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2,4-Dinitrophenol | U | | 2.07 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2-Nitrophenol | U | | 0.316 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 4-Nitrophenol | U | | 0.276 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Pentachlorophenol | U | | 0.237 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| Phenol | U | | 0.356 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| 2,4,6-Trichlorophenol | U | | 0.284 | 8.84 | 20 | 06/14/2024 02:45 | WG2303251 |
| *(S) 2-Fluorophenol* | *53.0* | J7 | | *12.0-120* | | *06/14/2024 02:45* | WG2303251 |
| *(S) Phenol-d5* | *52.4* | J7 | | *10.0-120* | | *06/14/2024 02:45* | WG2303251 |
| *(S) Nitrobenzene-d5* | *0.000* | J7 | | *10.0-122* | | *06/14/2024 02:45* | WG2303251 |
| *(S) 2-Fluorobiphenyl* | *69.2* | J7 | | *15.0-120* | | *06/14/2024 02:45* | WG2303251 |
| *(S) 2,4,6-Tribromophenol* | *63.3* | J7 | | *10.0-127* | | *06/14/2024 02:45* | WG2303251 |
| *(S) p-Terphenyl-d14* | *78.2* | J7 | | *10.0-120* | | *06/14/2024 02:45* | WG2303251 |

**Sample Narrative:**

L1741921-70 WG2303251: Dilution due to matrix impact during concentration procedure. Surrogate failure due to matrix.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.2 | | 1 | 06/13/2024 08:01 | WG2304168 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 34.4 | | 1.36 | 4.10 | 25.3 | 06/13/2024 14:02 | WG2304524 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *87.4* | | | *77.0-120* | | *06/13/2024 14:02* | WG2304524 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0598 | 0.0818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Acrylonitrile | U | | 0.00592 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Benzene | 0.0188 | | 0.000765 | 0.00164 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Bromobenzene | U | | 0.00147 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Bromodichloromethane | U | | 0.00119 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Bromoform | U | | 0.00191 | 0.0410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Bromomethane | U | | 0.00323 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| n-Butylbenzene | 0.0758 | | 0.00859 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| sec-Butylbenzene | 0.0561 | | 0.00472 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| tert-Butylbenzene | U | | 0.00319 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Carbon tetrachloride | U | | 0.00147 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Chlorobenzene | U | | 0.000344 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Chlorodibromomethane | U | | 0.00100 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Chloroethane | U | | 0.00279 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Chloroform | U | | 0.00169 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Chloromethane | U | | 0.00711 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 2-Chlorotoluene | U | | 0.00142 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 4-Chlorotoluene | U | | 0.000737 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00639 | 0.0410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2-Dibromoethane | U | | 0.00106 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Dibromomethane | U | | 0.00123 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2-Dichlorobenzene | U | | 0.000695 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,3-Dichlorobenzene | U | | 0.000982 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,4-Dichlorobenzene | U | | 0.00115 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Dichlorodifluoromethane | U | | 0.00264 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,1-Dichloroethane | U | | 0.000804 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2-Dichloroethane | U | | 0.00106 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,1-Dichloroethene | U | | 0.000992 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| cis-1,2-Dichloroethene | U | | 0.00120 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| trans-1,2-Dichloroethene | U | | 0.00170 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2-Dichloropropane | U | | 0.00232 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,1-Dichloropropene | U | | 0.00132 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,3-Dichloropropane | U | | 0.000820 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| cis-1,3-Dichloropropene | U | | 0.00124 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| trans-1,3-Dichloropropene | U | | 0.00186 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 2,2-Dichloropropane | U | | 0.00225 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Di-isopropyl ether | U | | 0.000671 | 0.00164 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Ethylbenzene | 0.00716 | | 0.00121 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Hexachloro-1,3-butadiene | U | | 0.00982 | 0.0410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Isopropylbenzene | 0.102 | | 0.000695 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| p-Isopropyltoluene | 0.0212 | | 0.00418 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 2-Butanone (MEK) | U | | 0.104 | 0.164 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Methylene Chloride | U | | 0.0109 | 0.0410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00373 | 0.0410 | 1.01 | 06/13/2024 04:09 | WG2304116 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000572 | 0.00164 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Naphthalene | 0.0141 | J | 0.00799 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| n-Propylbenzene | 0.306 | | 0.00155 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Styrene | U | | 0.000374 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00155 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00114 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00123 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Tetrachloroethene | U | | 0.00147 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Toluene | 0.0238 | | 0.00212 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2,3-Trichlorobenzene | U | | 0.0120 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2,4-Trichlorobenzene | U | | 0.00720 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,1,1-Trichloroethane | U | | 0.00151 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,1,2-Trichloroethane | U | | 0.000977 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Trichloroethene | U | | 0.000956 | 0.00164 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Trichlorofluoromethane | U | | 0.00135 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2,3-Trichloropropane | U | | 0.00266 | 0.0204 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2,4-Trimethylbenzene | 0.0335 | | 0.00259 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,2,3-Trimethylbenzene | 0.0198 | | 0.00259 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| 1,3,5-Trimethylbenzene | 0.0280 | | 0.00327 | 0.00818 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Vinyl chloride | U | | 0.00190 | 0.00410 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| Xylenes, Total | 0.0924 | | 0.00144 | 0.0106 | 1.01 | 06/13/2024 04:09 | WG2304116 |
| *(S) Toluene-d8* | *118* | | | *75.0-131* | | *06/13/2024 04:09* | WG2304116 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/13/2024 04:09* | WG2304116 |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* | | *06/13/2024 04:09* | WG2304116 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 3.14 | J | 0.962 | 5.25 | 1 | 06/14/2024 03:13 | WG2304127 |
| C22-C32 Hydrocarbons | 3.39 | J | 1.75 | 5.25 | 1 | 06/14/2024 03:13 | WG2304127 |
| C32-C40 Hydrocarbons | U | | 1.75 | 5.25 | 1 | 06/14/2024 03:13 | WG2304127 |
| *(S) o-Terphenyl* | *39.2* | | | *18.0-148* | | *06/14/2024 03:13* | WG2304127 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00707 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Acenaphthylene | U | | 0.00615 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Anthracene | U | | 0.00778 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Benzidine | U | | 0.0821 | 2.19 | 1 | 06/13/2024 22:09 | WG2304128 |
| Benzo(a)anthracene | U | | 0.00770 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Benzo(b)fluoranthene | U | | 0.00815 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Benzo(k)fluoranthene | U | | 0.00777 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Benzo(g,h,i)perylene | U | | 0.00799 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Benzo(a)pyrene | U | | 0.00812 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Bis(2-chlorethoxy)methane | U | | 0.0131 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Bis(2-chloroethyl)ether | U | | 0.0144 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0189 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 4-Bromophenyl-phenylether | U | | 0.0154 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2-Chloronaphthalene | U | | 0.00768 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 4-Chlorophenyl-phenylether | U | | 0.0152 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Chrysene | U | | 0.00869 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Dibenz(a,h)anthracene | U | | 0.0121 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 1,2-Dichlorobenzene | U | | 0.0130 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 1,3-Dichlorobenzene | U | | 0.0133 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | U | | 0.0130 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 3,3-Dichlorobenzidine | U | | 0.0161 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2,4-Dinitrotoluene | U | | 0.0125 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2,6-Dinitrotoluene | U | | 0.0143 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Fluoranthene | 0.00810 | J | 0.00789 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Fluorene | U | | 0.00711 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Hexachlorobenzene | U | | 0.0155 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Hexachloro-1,3-butadiene | U | | 0.0147 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Hexachlorocyclopentadiene | U | | 0.0230 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Hexachloroethane | U | | 0.0172 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0123 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Isophorone | U | | 0.0134 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Naphthalene | U | | 0.0110 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Nitrobenzene | U | | 0.0152 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| n-Nitrosodimethylamine | U | | 0.0648 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| n-Nitrosodiphenylamine | U | | 0.0331 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| n-Nitrosodi-n-propylamine | U | | 0.0146 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Phenanthrene | 0.00916 | J | 0.00867 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Benzylbutyl phthalate | U | | 0.0136 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0554 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Di-n-butyl phthalate | U | | 0.0150 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Diethyl phthalate | U | | 0.0144 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Dimethyl phthalate | U | | 0.0926 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Di-n-octyl phthalate | U | | 0.0295 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Pyrene | 0.00970 | J | 0.00850 | 0.0437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 1,2,4-Trichlorobenzene | U | | 0.0136 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 4-Chloro-3-methylphenol | U | | 0.0142 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2-Chlorophenol | U | | 0.0144 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2,4-Dichlorophenol | U | | 0.0127 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2,4-Dimethylphenol | U | | 0.0114 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0991 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2,4-Dinitrophenol | U | | 0.102 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2-Nitrophenol | U | | 0.0156 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 4-Nitrophenol | U | | 0.0136 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Pentachlorophenol | U | | 0.0118 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| Phenol | U | | 0.0176 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| 2,4,6-Trichlorophenol | U | | 0.0140 | 0.437 | 1 | 06/13/2024 22:09 | WG2304128 |
| *(S) 2-Fluorophenol* | *61.8* | | | *12.0-120* | | *06/13/2024 22:09* | WG2304128 |
| *(S) Phenol-d5* | *55.2* | | | *10.0-120* | | *06/13/2024 22:09* | WG2304128 |
| *(S) Nitrobenzene-d5* | *56.0* | | | *10.0-122* | | *06/13/2024 22:09* | WG2304128 |
| *(S) 2-Fluorobiphenyl* | *64.5* | | | *15.0-120* | | *06/13/2024 22:09* | WG2304128 |
| *(S) 2,4,6-Tribromophenol* | *49.2* | | | *10.0-127* | | *06/13/2024 22:09* | WG2304128 |
| *(S) p-Terphenyl-d14* | *63.5* | | | *10.0-120* | | *06/13/2024 22:09* | WG2304128 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 77.6 | | 1 | 06/04/2024 17:22 | WG2298445 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 45.7 | | 1.33 | 4.00 | 25 | 06/06/2024 05:14 | WG2299409 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.3* | | | *77.0-120* | | *06/06/2024 05:14* | WG2299409 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0583 | 0.0799 | 1 | 06/11/2024 23:13 | WG2303036 |
| Acrylonitrile | U | | 0.00577 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| Benzene | 0.0897 | | 0.000746 | 0.00160 | 1 | 06/11/2024 23:13 | WG2303036 |
| Bromobenzene | U | | 0.00144 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| Bromodichloromethane | U | | 0.00116 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Bromoform | U | | 0.00187 | 0.0400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Bromomethane | U | | 0.00315 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| n-Butylbenzene | 0.145 | | 0.00839 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| sec-Butylbenzene | 0.0564 | | 0.00460 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| tert-Butylbenzene | U | | 0.00312 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| Carbon tetrachloride | U | | 0.00144 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| Chlorobenzene | U | | 0.000336 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Chlorodibromomethane | U | | 0.000978 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Chloroethane | U | | 0.00272 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| Chloroform | U | | 0.00165 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Chloromethane | U | | 0.00695 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| 2-Chlorotoluene | U | | 0.00138 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 4-Chlorotoluene | U | | 0.000719 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00623 | 0.0400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2-Dibromoethane | U | | 0.00104 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Dibromomethane | U | | 0.00120 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2-Dichlorobenzene | U | | 0.000679 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,3-Dichlorobenzene | U | | 0.000959 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,4-Dichlorobenzene | U | | 0.00112 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| Dichlorodifluoromethane | U | | 0.00257 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,1-Dichloroethane | U | | 0.000785 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2-Dichloroethane | U | | 0.00104 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,1-Dichloroethene | U | | 0.000969 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| cis-1,2-Dichloroethene | U | | 0.00117 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| trans-1,2-Dichloroethene | U | | 0.00166 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2-Dichloropropane | U | | 0.00227 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,1-Dichloropropene | U | | 0.00129 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,3-Dichloropropane | U | | 0.000801 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| cis-1,3-Dichloropropene | U | | 0.00121 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| trans-1,3-Dichloropropene | U | | 0.00182 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 2,2-Dichloropropane | U | | 0.00221 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Di-isopropyl ether | U | | 0.000655 | 0.00160 | 1 | 06/11/2024 23:13 | WG2303036 |
| Ethylbenzene | 0.00639 | | 0.00118 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Hexachloro-1,3-butadiene | U | | 0.00959 | 0.0400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Isopropylbenzene | 0.109 | | 0.000679 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| p-Isopropyltoluene | 0.0121 | | 0.00408 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 2-Butanone (MEK) | U | | 0.102 | 0.160 | 1 | 06/11/2024 23:13 | WG2303036 |
| Methylene Chloride | U | | 0.0106 | 0.0400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00364 | 0.0400 | 1 | 06/11/2024 23:13 | WG2303036 |

Cp Tc Ss Cn Ds Sr Qc Gl Al Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000559 | 0.00160 | 1 | 06/11/2024 23:13 | WG2303036 |
| Naphthalene | 0.0766 | | 0.00780 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| n-Propylbenzene | 0.323 | | 0.00152 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| Styrene | U | | 0.000366 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00152 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00111 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00121 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Tetrachloroethene | U | | 0.00143 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Toluene | 0.00918 | | 0.00208 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2,3-Trichlorobenzene | U | | 0.0117 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2,4-Trichlorobenzene | U | | 0.00703 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,1,1-Trichloroethane | U | | 0.00148 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,1,2-Trichloroethane | U | | 0.000954 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Trichloroethene | U | | 0.000933 | 0.00160 | 1 | 06/11/2024 23:13 | WG2303036 |
| Trichlorofluoromethane | U | | 0.00132 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2,3-Trichloropropane | U | | 0.00259 | 0.0200 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2,4-Trimethylbenzene | 0.00788 | J | 0.00253 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,2,3-Trimethylbenzene | 0.00903 | | 0.00253 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| 1,3,5-Trimethylbenzene | 0.00449 | J | 0.00320 | 0.00799 | 1 | 06/11/2024 23:13 | WG2303036 |
| Vinyl chloride | U | | 0.00185 | 0.00400 | 1 | 06/11/2024 23:13 | WG2303036 |
| Xylenes, Total | 0.0301 | | 0.00141 | 0.0104 | 1 | 06/11/2024 23:13 | WG2303036 |
| *(S) Toluene-d8* | *97.7* | | | *75.0-131* | | *06/11/2024 23:13* | WG2303036 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/11/2024 23:13* | WG2303036 |
| *(S) 1,2-Dichloroethane-d4* | *88.4* | | | *70.0-130* | | *06/11/2024 23:13* | WG2303036 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 4.50 | J | 0.945 | 5.16 | 1 | 06/13/2024 11:58 | WG2303234 |
| C22-C32 Hydrocarbons | 2.90 | J | 1.71 | 5.16 | 1 | 06/13/2024 11:58 | WG2303234 |
| C32-C40 Hydrocarbons | U | | 1.71 | 5.16 | 1 | 06/13/2024 11:58 | WG2303234 |
| *(S) o-Terphenyl* | *60.2* | | | *18.0-148* | | *06/13/2024 11:58* | WG2303234 |

# QUALITY CONTROL SUMMARY

L1741921-01,02,03,05,07,18,19,20,22,24

## Method Blank (MB)

(MB) R4076815-1 06/03/24 16:04

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00300 | | | |

## L1741921-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-05 06/03/24 16:04 • (DUP) R4076815-3 06/03/24 16:04

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 75.9 | 76.1 | 1 | 0.244 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076815-2 06/03/24 16:04

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4076811-1 06/03/24 15:57

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00300 | | | |

## L1741921-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-29 06/03/24 15:57 • (DUP) R4076811-3 06/03/24 15:57

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 80.4 | 80.9 | 1 | 0.676 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076811-2 06/03/24 15:57

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1741921-38,40,42,43,44,45,47,48,49,50

## Method Blank (MB)

(MB) R4076803-1 06/03/24 15:32

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1741921-44 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-44 06/03/24 15:32 • (DUP) R4076803-3 06/03/24 15:32

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 93.2 | 93.2 | 1 | 0.0471 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076803-2 06/03/24 15:32

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1741921-52,54,56,57,58,60,61,62,63,65

## Method Blank (MB)

(MB) R4076799-1 06/03/24 15:22

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1741921-58 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-58 06/03/24 15:22 • (DUP) R4076799-3 06/03/24 15:22

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 80.6 | 81.2 | 1 | 0.702 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076799-2 06/03/24 15:22

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4076819-1 06/03/24 16:12

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00300 | | | |

## L1742036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1742036-01 06/03/24 16:12 • (DUP) R4076819-3 06/03/24 16:12

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 97.8 | 97.7 | 1 | 0.0387 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076819-2 06/03/24 16:12

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.1 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4077325-1 06/04/24 17:22

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1742320-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1742320-05 06/04/24 17:22 • (DUP) R4077325-3 06/04/24 17:22

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 77.8 | 72.7 | 1 | 6.84 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4077325-2 06/04/24 17:22

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4078969-1 06/07/24 12:45

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1740925-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1740925-17 06/07/24 12:45 • (DUP) R4078969-3 06/07/24 12:45

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 83.7 | 83.5 | 1 | 0.149 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4078969-2 06/07/24 12:45

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1741921-09,10,12,13,14,15,17

## Method Blank (MB)

(MB) R4079852-1 06/10/24 12:51

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00200 | | | |

## L1741921-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-10 06/10/24 12:51 • (DUP) R4079852-3 06/10/24 12:51

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 88.3 | 88.0 | 1 | 0.383 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4079852-2 06/10/24 12:51

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4081625-1 06/13/24 09:37

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1741921-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-11 06/13/24 09:37 • (DUP) R4081625-3 06/13/24 09:37

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 79.9 | 85.9 | 1 | 7.16 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4081625-2 06/13/24 09:37

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4081616-1 06/13/24 07:36

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1745793-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1745793-03 06/13/24 07:36 • (DUP) R4081616-3 06/13/24 07:36

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 88.2 | 87.5 | 1 | 0.847 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4081616-2 06/13/24 07:36

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4081619-1 06/13/24 08:01

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1741921-53 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-53 06/13/24 08:01 • (DUP) R4081619-3 06/13/24 08:01

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 74.6 | 75.1 | 1 | 0.687 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4081619-2 06/13/24 08:01

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 90.0-110 | |

## Method Blank (MB)

(MB) R4076570-1 06/03/24 11:58

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Mercury | U | | 0.100 | 0.200 |

## Laboratory Control Sample (LCS)

(LCS) R4076570-2 06/03/24 12:06

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 3.00 | 3.22 | 107 | 80.0-120 | |

## L1741865-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741865-01 06/03/24 12:08 • (MS) R4076570-4 06/03/24 12:13 • (MSD) R4076570-5 06/03/24 12:16

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.00 | U | 3.27 | 3.29 | 109 | 110 | 1 | 75.0-125 | | | 0.571 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-49,50,56,57,58,61,62,63

## Method Blank (MB)

(MB) R4076919-1 06/04/24 09:27

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4076919-2 06/04/24 09:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.516 | 103 | 80.0-120 | |

## L1741921-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-57 06/04/24 09:32 • (MS) R4076919-4 06/04/24 09:37 • (MSD) R4076919-5 06/04/24 09:45

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.555 | 0.193 | 0.712 | 0.804 | 93.6 | 110 | 1 | 75.0-125 | | | 12.1 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-01,02,03,18,19,20,25,26,27,31,32,33,36,37,38,43,44,45,48

## Method Blank (MB)

(MB) R4077826-1 06/05/24 18:14

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4077826-2 06/05/24 18:17

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.486 | 97.2 | 80.0-120 | |

## L1741921-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-03 06/05/24 18:19 • (MS) R4077826-4 06/05/24 18:24 • (MSD) R4077826-5 06/05/24 18:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.660 | 0.0592 | 0.687 | 0.661 | 95.2 | 91.1 | 1 | 75.0-125 | | | 3.98 | 20 |

## Method Blank (MB)

(MB) R4078897-1 06/07/24 17:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4078897-2 06/07/24 17:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.500 | 99.9 | 80.0-120 | |

## L1742320-68 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742320-68 06/07/24 17:52 • (MS) R4078897-4 06/07/24 17:58 • (MSD) R4078897-5 06/07/24 18:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.605 | 0.0820 | 0.717 | 0.671 | 105 | 97.3 | 1 | 75.0-125 | | | 6.61 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-08,09,10,13,14,15

## Method Blank (MB)

(MB) R4079108-1 06/08/24 17:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4079108-2 06/08/24 17:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.480 | 96.0 | 80.0-120 | |

## L1741921-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-08 06/08/24 17:45 • (MS) R4079108-4 06/08/24 17:50 • (MSD) R4079108-5 06/08/24 17:58

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.533 | 0.0525 | 0.462 | 0.511 | 76.8 | 85.9 | 1 | 75.0-125 | | | 9.94 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-68,69,70

## Method Blank (MB)

(MB) R4080508-1 06/11/24 17:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4080508-2 06/11/24 17:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 98.4 | 98.4 | 80.0-120 | |
| Arsenic | 100 | 97.1 | 97.1 | 80.0-120 | |
| Barium | 100 | 102 | 102 | 80.0-120 | |
| Beryllium | 100 | 101 | 101 | 80.0-120 | |
| Cadmium | 100 | 95.0 | 95.0 | 80.0-120 | |
| Chromium | 100 | 105 | 105 | 80.0-120 | |
| Cobalt | 100 | 96.2 | 96.2 | 80.0-120 | |
| Copper | 100 | 92.1 | 92.1 | 80.0-120 | |
| Lead | 100 | 97.0 | 97.0 | 80.0-120 | |
| Molybdenum | 100 | 101 | 101 | 80.0-120 | |
| Nickel | 100 | 96.9 | 96.9 | 80.0-120 | |
| Selenium | 100 | 96.1 | 96.1 | 80.0-120 | |
| Silver | 20.0 | 18.9 | 94.3 | 80.0-120 | |
| Thallium | 100 | 103 | 103 | 80.0-120 | |
| Vanadium | 100 | 104 | 104 | 80.0-120 | |
| Zinc | 100 | 93.8 | 93.8 | 80.0-120 | |

# WG2299845

Metals (ICP) by Method 6010B

# QUALITY CONTROL SUMMARY

L1741921-68,69,70

## L1742436-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742436-01 06/11/24 17:17 • (MS) R4080508-5 06/11/24 17:27 • (MSD) R4080508-6 06/11/24 17:30

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 116 | U | 95.8 | 98.5 | 82.6 | 84.9 | 1 | 75.0-125 | | | 2.79 | 20 |
| Arsenic | 116 | 3.54 | 104 | 102 | 86.3 | 84.8 | 1 | 75.0-125 | | | 1.69 | 20 |
| Barium | 116 | 8.91 | 114 | 113 | 90.3 | 89.8 | 1 | 75.0-125 | | | 0.549 | 20 |
| Beryllium | 116 | 0.118 | 107 | 106 | 92.2 | 91.7 | 1 | 75.0-125 | | | 0.524 | 20 |
| Cadmium | 116 | U | 99.7 | 99.7 | 86.0 | 86.0 | 1 | 75.0-125 | | | 0.0490 | 20 |
| Chromium | 116 | 5.54 | 118 | 116 | 96.8 | 95.1 | 1 | 75.0-125 | | | 1.69 | 20 |
| Cobalt | 116 | 0.449 | 103 | 103 | 88.4 | 88.3 | 1 | 75.0-125 | | | 0.0665 | 20 |
| Copper | 116 | 2.33 | 103 | 101 | 87.0 | 84.9 | 1 | 75.0-125 | | | 2.46 | 20 |
| Lead | 116 | 12.0 | 115 | 112 | 88.8 | 86.2 | 1 | 75.0-125 | | | 2.66 | 20 |
| Molybdenum | 116 | U | 104 | 104 | 89.9 | 89.6 | 1 | 75.0-125 | | | 0.231 | 20 |
| Nickel | 116 | 1.58 | 105 | 105 | 88.9 | 89.3 | 1 | 75.0-125 | | | 0.377 | 20 |
| Selenium | 116 | U | 97.3 | 94.5 | 83.9 | 81.5 | 1 | 75.0-125 | | | 2.91 | 20 |
| Silver | 23.2 | U | 20.4 | 20.2 | 88.0 | 86.9 | 1 | 75.0-125 | | | 1.21 | 20 |
| Thallium | 116 | U | 109 | 108 | 93.7 | 92.8 | 1 | 75.0-125 | | | 0.982 | 20 |
| Vanadium | 116 | 5.90 | 116 | 115 | 94.9 | 93.9 | 1 | 75.0-125 | | | 1.01 | 20 |
| Zinc | 116 | 5.42 | 104 | 103 | 84.9 | 84.4 | 1 | 75.0-125 | | | 0.555 | 20 |

## Method Blank (MB)

(MB) R4079306-1 06/09/24 19:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | 0.174 | J | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Method Blank (MB)

(MB) R4079552-1 06/10/24 09:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Silver | U | | 0.127 | 1.00 |

## Laboratory Control Sample (LCS)

(LCS) R4079306-2 06/09/24 19:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 90.8 | 90.8 | 80.0-120 | |
| Arsenic | 100 | 92.4 | 92.4 | 80.0-120 | |
| Barium | 100 | 97.7 | 97.7 | 80.0-120 | |
| Beryllium | 100 | 95.3 | 95.3 | 80.0-120 | |
| Cadmium | 100 | 91.8 | 91.8 | 80.0-120 | |
| Chromium | 100 | 101 | 101 | 80.0-120 | |
| Cobalt | 100 | 91.5 | 91.5 | 80.0-120 | |
| Copper | 100 | 97.9 | 97.9 | 80.0-120 | |
| Lead | 100 | 94.1 | 94.1 | 80.0-120 | |
| Molybdenum | 100 | 97.4 | 97.4 | 80.0-120 | |
| Nickel | 100 | 91.3 | 91.3 | 80.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4079306-2 06/09/24 19:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Selenium | 100 | 90.4 | 90.4 | 80.0-120 | |
| Thallium | 100 | 95.9 | 95.9 | 80.0-120 | |
| Vanadium | 100 | 92.9 | 92.9 | 80.0-120 | |
| Zinc | 100 | 94.3 | 94.3 | 80.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4079552-2 06/10/24 09:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 20.0 | 20.8 | 104 | 80.0-120 | |

## L1741921-62 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-62 06/09/24 19:25 • (MS) R4079306-5 06/09/24 19:30 • (MSD) R4079306-6 06/09/24 19:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 118 | 8.61 | 65.9 | 61.2 | 48.7 | 44.7 | 1 | 75.0-125 | J6 | J6 | 7.35 | 20 |
| Arsenic | 118 | 415 | 376 | 600 | 0.000 | 157 | 1 | 75.0-125 | J6 | J3 J5 | 46.0 | 20 |
| Barium | 118 | 2040 | 1590 | 2660 | 0.000 | 526 | 1 | 75.0-125 | V | J3 V | 50.2 | 20 |
| Beryllium | 118 | 0.363 | 114 | 109 | 96.3 | 92.4 | 1 | 75.0-125 | | | 4.12 | 20 |
| Cadmium | 118 | 6.35 | 117 | 115 | 93.9 | 92.6 | 1 | 75.0-125 | | | 1.25 | 20 |
| Chromium | 118 | 53.6 | 184 | 182 | 111 | 109 | 1 | 75.0-125 | | | 0.987 | 20 |
| Cobalt | 118 | 13.7 | 128 | 122 | 96.8 | 91.7 | 1 | 75.0-125 | | | 4.80 | 20 |
| Copper | 118 | 164 | 260 | 356 | 82.0 | 164 | 1 | 75.0-125 | | J3 J5 | 31.1 | 20 |
| Lead | 118 | 187 | 265 | 381 | 66.8 | 165 | 1 | 75.0-125 | J6 | J3 J5 | 35.7 | 20 |
| Molybdenum | 118 | 1.75 | 108 | 106 | 90.0 | 88.3 | 1 | 75.0-125 | | | 1.82 | 20 |
| Nickel | 118 | 57.8 | 186 | 173 | 109 | 98.3 | 1 | 75.0-125 | | | 7.23 | 20 |
| Selenium | 118 | 4.40 | 117 | 115 | 96.1 | 93.7 | 1 | 75.0-125 | | | 2.43 | 20 |
| Thallium | 118 | U | 107 | 102 | 90.9 | 86.3 | 1 | 75.0-125 | | | 5.20 | 20 |
| Vanadium | 118 | 47.9 | 170 | 161 | 103 | 95.8 | 1 | 75.0-125 | | | 5.44 | 20 |
| Zinc | 118 | 249 | 322 | 522 | 61.4 | 232 | 1 | 75.0-125 | J6 | J3 J5 | 47.6 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-33,36,37,38,43,44,50,56,57,58,61,62,63

## L1741921-62 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-62 06/10/24 09:33 • (MS) R4079552-5 06/10/24 09:38 • (MSD) R4079552-6 06/10/24 09:40

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Silver | 23.5 | 0.665 | 23.4 | 22.2 | 96.6 | 91.4 | 1 | 75.0-125 | | | 5.42 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-01,02,03,18,19,20,25,26,27,31,32,45,48,49

## Method Blank (MB)

(MB) R4079245-1 06/09/24 08:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | 0.234 | J | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4079245-2 06/09/24 08:22

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 96.7 | 96.7 | 80.0-120 | |
| Arsenic | 100 | 99.8 | 99.8 | 80.0-120 | |
| Barium | 100 | 103 | 103 | 80.0-120 | |
| Beryllium | 100 | 102 | 102 | 80.0-120 | |
| Cadmium | 100 | 98.2 | 98.2 | 80.0-120 | |
| Chromium | 100 | 107 | 107 | 80.0-120 | |
| Cobalt | 100 | 97.2 | 97.2 | 80.0-120 | |
| Copper | 100 | 104 | 104 | 80.0-120 | |
| Lead | 100 | 99.4 | 99.4 | 80.0-120 | |
| Molybdenum | 100 | 104 | 104 | 80.0-120 | |
| Nickel | 100 | 96.6 | 96.6 | 80.0-120 | |
| Selenium | 100 | 96.1 | 96.1 | 80.0-120 | |
| Silver | 20.0 | 20.1 | 101 | 80.0-120 | |
| Thallium | 100 | 102 | 102 | 80.0-120 | |
| Vanadium | 100 | 100 | 100 | 80.0-120 | |
| Zinc | 100 | 100 | 100 | 80.0-120 | |

## L1741921-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-20 06/09/24 08:24 • (MS) R4079245-5 06/09/24 08:29 • (MSD) R4079245-6 06/09/24 08:31

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 135 | 7.93 | 67.2 | 61.4 | 43.8 | 39.4 | 1 | 75.0-125 | J6 | J6 | 9.08 | 20 |
| Arsenic | 135 | U | 146 | 139 | 108 | 102 | 1 | 75.0-125 | | | 5.03 | 20 |
| Barium | 135 | 376 | 561 | 558 | 136 | 134 | 1 | 75.0-125 | J5 | J5 | 0.623 | 20 |
| Beryllium | 135 | 0.856 | 154 | 147 | 113 | 108 | 1 | 75.0-125 | | | 4.76 | 20 |
| Cadmium | 135 | 0.174 | 143 | 139 | 105 | 102 | 1 | 75.0-125 | | | 2.94 | 20 |
| Chromium | 135 | 89.0 | 246 | 243 | 116 | 114 | 1 | 75.0-125 | | | 1.36 | 20 |
| Cobalt | 135 | 15.3 | 162 | 160 | 108 | 106 | 1 | 75.0-125 | | | 1.38 | 20 |
| Copper | 135 | 44.2 | 209 | 191 | 122 | 109 | 1 | 75.0-125 | | | 8.94 | 20 |
| Lead | 135 | 48.7 | 234 | 183 | 137 | 98.9 | 1 | 75.0-125 | J5 | J3 | 24.7 | 20 |
| Molybdenum | 135 | 1.55 | 143 | 137 | 104 | 99.8 | 1 | 75.0-125 | | | 4.13 | 20 |
| Nickel | 135 | 77.6 | 230 | 227 | 113 | 110 | 1 | 75.0-125 | | | 1.44 | 20 |
| Selenium | 135 | U | 151 | 145 | 111 | 107 | 1 | 75.0-125 | | | 3.62 | 20 |
| Silver | 27.1 | 0.273 | 30.5 | 29.3 | 111 | 107 | 1 | 75.0-125 | | | 3.93 | 20 |
| Thallium | 135 | U | 146 | 143 | 108 | 105 | 1 | 75.0-125 | | | 2.19 | 20 |
| Vanadium | 135 | 82.2 | 242 | 238 | 118 | 115 | 1 | 75.0-125 | | | 1.45 | 20 |
| Zinc | 135 | 113 | 307 | 246 | 143 | 97.6 | 1 | 75.0-125 | J5 | J3 | 22.1 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-08,09,10,13,14,15

## Method Blank (MB)

(MB) R4079258-1 06/09/24 17:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4079258-2 06/09/24 17:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 92.4 | 92.4 | 80.0-120 | |
| Arsenic | 100 | 95.0 | 95.0 | 80.0-120 | |
| Barium | 100 | 98.1 | 98.1 | 80.0-120 | |
| Beryllium | 100 | 95.5 | 95.5 | 80.0-120 | |
| Cadmium | 100 | 93.4 | 93.4 | 80.0-120 | |
| Chromium | 100 | 102 | 102 | 80.0-120 | |
| Cobalt | 100 | 92.3 | 92.3 | 80.0-120 | |
| Copper | 100 | 99.0 | 99.0 | 80.0-120 | |
| Lead | 100 | 95.0 | 95.0 | 80.0-120 | |
| Molybdenum | 100 | 98.2 | 98.2 | 80.0-120 | |
| Nickel | 100 | 92.4 | 92.4 | 80.0-120 | |
| Selenium | 100 | 92.7 | 92.7 | 80.0-120 | |
| Silver | 20.0 | 19.0 | 95.2 | 80.0-120 | |
| Thallium | 100 | 98.0 | 98.0 | 80.0-120 | |
| Vanadium | 100 | 93.5 | 93.5 | 80.0-120 | |
| Zinc | 100 | 96.7 | 96.7 | 80.0-120 | |

## L1743814-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743814-02 06/09/24 17:33 • (MS) R4079258-5 06/09/24 17:38 • (MSD) R4079258-6 06/09/24 17:40

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 100 | 2.45 | 77.5 | 76.8 | 75.1 | 74.4 | 1 | 75.0-125 | | J6 | 0.932 | 20 |
| Arsenic | 100 | 3.98 | 88.1 | 91.1 | 84.2 | 87.2 | 1 | 75.0-125 | | | 3.35 | 20 |
| Barium | 100 | 94.2 | 182 | 170 | 88.0 | 76.1 | 1 | 75.0-125 | | | 6.74 | 20 |
| Beryllium | 100 | 0.614 | 83.0 | 84.0 | 82.4 | 83.4 | 1 | 75.0-125 | | | 1.16 | 20 |
| Cadmium | 100 | U | 82.2 | 83.2 | 82.2 | 83.2 | 1 | 75.0-125 | | | 1.27 | 20 |
| Chromium | 100 | 10.3 | 92.1 | 94.4 | 81.7 | 84.1 | 1 | 75.0-125 | | | 2.50 | 20 |
| Cobalt | 100 | 5.19 | 91.5 | 93.6 | 86.3 | 88.4 | 1 | 75.0-125 | | | 2.24 | 20 |
| Copper | 100 | 8.96 | 95.1 | 94.3 | 86.2 | 85.3 | 1 | 75.0-125 | | | 0.920 | 20 |
| Lead | 100 | 80.2 | 167 | 172 | 86.5 | 92.3 | 1 | 75.0-125 | | | 3.41 | 20 |
| Molybdenum | 100 | 0.569 | 83.4 | 83.3 | 82.8 | 82.7 | 1 | 75.0-125 | | | 0.145 | 20 |
| Nickel | 100 | 9.57 | 94.7 | 97.5 | 85.1 | 87.9 | 1 | 75.0-125 | | | 2.96 | 20 |
| Selenium | 100 | U | 97.8 | 98.7 | 97.8 | 98.7 | 1 | 75.0-125 | | | 0.858 | 20 |
| Silver | 20.0 | 1.36 | 18.8 | 19.1 | 87.2 | 88.8 | 1 | 75.0-125 | | | 1.69 | 20 |
| Thallium | 100 | U | 86.5 | 88.3 | 86.5 | 88.3 | 1 | 75.0-125 | | | 2.08 | 20 |
| Vanadium | 100 | 12.8 | 89.9 | 93.0 | 77.0 | 80.2 | 1 | 75.0-125 | | | 3.41 | 20 |
| Zinc | 100 | 34.6 | 122 | 117 | 87.7 | 82.0 | 1 | 75.0-125 | | | 4.75 | 20 |

## Method Blank (MB)

(MB) R4088878-1 07/01/24 19:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.518 | 2.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4088878-2 07/01/24 19:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 90.4 | 90.4 | 80.0-120 | |
| Cobalt | 100 | 90.1 | 90.1 | 80.0-120 | |
| Lead | 100 | 92.2 | 92.2 | 80.0-120 | |
| Nickel | 100 | 92.4 | 92.4 | 80.0-120 | |

## L1741921-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-16 07/01/24 19:55 • (MS) R4088878-5 07/01/24 20:00 • (MSD) R4088878-6 07/01/24 20:02

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 123 | 6.29 | 110 | 121 | 84.3 | 92.6 | 1 | 75.0-125 | | | 8.88 | 20 |
| Cobalt | 123 | 7.73 | 114 | 126 | 86.5 | 95.9 | 1 | 75.0-125 | | | 9.70 | 20 |
| Lead | 123 | 31.9 | 127 | 133 | 76.6 | 82.2 | 1 | 75.0-125 | | | 5.30 | 20 |
| Nickel | 123 | 37.4 | 145 | 157 | 86.8 | 97.1 | 1 | 75.0-125 | | | 8.44 | 20 |

## Method Blank (MB)

(MB) R4083413-1 06/18/24 16:56

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Antimony | 1.13 | | 1.03 | 4.00 |
| Arsenic | U | | 0.180 | 2.00 |
| Barium | U | | 0.381 | 2.00 |
| Beryllium | U | | 0.190 | 2.00 |
| Cadmium | U | | 0.150 | 1.00 |
| Chromium | U | | 1.24 | 2.00 |
| Copper | U | | 1.51 | 5.00 |
| Cobalt | U | | 0.0596 | 2.00 |
| Lead | U | | 0.849 | 2.00 |
| Molybdenum | U | | 0.348 | 5.00 |
| Nickel | U | | 0.816 | 2.00 |
| Selenium | U | | 0.300 | 2.00 |
| Silver | U | | 0.0700 | 2.00 |
| Thallium | U | | 0.121 | 2.00 |
| Vanadium | U | | 0.664 | 5.00 |
| Zinc | U | | 3.02 | 25.0 |

## Laboratory Control Sample (LCS)

(LCS) R4083413-2 06/18/24 16:59

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 50.0 | 53.6 | 107 | 80.0-120 | |
| Arsenic | 50.0 | 51.4 | 103 | 80.0-120 | |
| Barium | 50.0 | 49.5 | 98.9 | 80.0-120 | |
| Beryllium | 50.0 | 49.5 | 98.9 | 80.0-120 | |
| Cadmium | 50.0 | 53.9 | 108 | 80.0-120 | |
| Chromium | 50.0 | 54.5 | 109 | 80.0-120 | |
| Copper | 50.0 | 49.4 | 98.8 | 80.0-120 | |
| Cobalt | 50.0 | 53.8 | 108 | 80.0-120 | |
| Lead | 50.0 | 54.2 | 108 | 80.0-120 | |
| Molybdenum | 50.0 | 50.7 | 101 | 80.0-120 | |
| Nickel | 50.0 | 54.4 | 109 | 80.0-120 | |
| Selenium | 50.0 | 52.7 | 105 | 80.0-120 | |
| Silver | 50.0 | 50.9 | 102 | 80.0-120 | |
| Thallium | 50.0 | 51.6 | 103 | 80.0-120 | |
| Vanadium | 50.0 | 53.3 | 107 | 80.0-120 | |
| Zinc | 50.0 | 50.8 | 102 | 80.0-120 | |

## L1744523-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1744523-05 06/18/24 17:02 • (MS) R4083413-4 06/18/24 17:09 • (MSD) R4083413-5 06/18/24 17:12

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | U | 55.4 | 53.0 | 111 | 106 | 1 | 75.0-125 | | | 4.31 | 20 |
| Arsenic | 50.0 | 15.1 | 65.6 | 67.9 | 101 | 106 | 1 | 75.0-125 | | | 3.44 | 20 |
| Barium | 50.0 | 73.2 | 126 | 121 | 105 | 96.4 | 1 | 75.0-125 | | | 3.52 | 20 |
| Beryllium | 50.0 | U | 50.0 | 52.1 | 100 | 104 | 1 | 75.0-125 | | | 4.24 | 20 |
| Cadmium | 50.0 | U | 54.9 | 54.2 | 110 | 108 | 1 | 75.0-125 | | | 1.29 | 20 |
| Chromium | 50.0 | U | 54.1 | 55.8 | 108 | 112 | 1 | 75.0-125 | | | 3.12 | 20 |
| Copper | 50.0 | 1.88 | 51.8 | 51.8 | 99.9 | 99.8 | 1 | 75.0-125 | | | 0.0529 | 20 |
| Cobalt | 50.0 | 0.143 | 53.1 | 55.3 | 106 | 110 | 1 | 75.0-125 | | | 4.00 | 20 |
| Lead | 50.0 | U | 54.1 | 52.0 | 108 | 104 | 1 | 75.0-125 | | | 3.91 | 20 |
| Molybdenum | 50.0 | U | 53.3 | 51.3 | 107 | 103 | 1 | 75.0-125 | | | 3.75 | 20 |
| Nickel | 50.0 | 1.36 | 54.7 | 55.9 | 107 | 109 | 1 | 75.0-125 | | | 2.30 | 20 |
| Selenium | 50.0 | 0.411 | 53.3 | 52.6 | 106 | 104 | 1 | 75.0-125 | | | 1.41 | 20 |
| Silver | 50.0 | U | 52.1 | 50.5 | 104 | 101 | 1 | 75.0-125 | | | 3.17 | 20 |
| Thallium | 50.0 | U | 53.5 | 51.3 | 107 | 103 | 1 | 75.0-125 | | | 4.13 | 20 |
| Vanadium | 50.0 | 2.66 | 55.1 | 56.5 | 105 | 108 | 1 | 75.0-125 | | | 2.44 | 20 |
| Zinc | 50.0 | U | 51.8 | 52.8 | 104 | 106 | 1 | 75.0-125 | | | 1.81 | 20 |

## Method Blank (MB)

(MB) R4078855-2 06/05/24 22:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078855-1 06/05/24 20:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.02 | 100 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *95.9* | *77.0-120* | |

## Method Blank (MB)

(MB) R4080386-3 06/10/24 14:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.66 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080386-1 06/10/24 12:58 • (LCSD) R4080386-2 06/10/24 13:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.82 | 4.84 | 96.4 | 96.8 | 72.0-125 | | | 0.414 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *104* | *104* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4080158-3 06/11/24 11:46

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 0.902 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080158-1 06/11/24 10:09 • (LCSD) R4080158-2 06/11/24 10:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.91 | 4.66 | 98.2 | 93.2 | 72.0-125 | | | 5.22 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *102* | *101* | *77.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4081161-2 06/12/24 21:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.39 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4081161-1 06/12/24 20:34

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.68 | 93.6 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *102* | *77.0-120* | |

## L1744706-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1744706-08 06/13/24 01:32 • (MS) R4081161-3 06/13/24 05:03 • (MSD) R4081161-4 06/13/24 05:23

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 119 | 1.21 | 119 | 118 | 99.0 | 98.0 | 25 | 10.0-141 | | | 0.985 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *100* | *100* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4081237-2 06/13/24 02:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 0.982 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *108* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4081237-1 06/13/24 01:20

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 5.42 | 108 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *108* | *77.0-120* | |

## L1741921-46 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-46 06/13/24 03:17 • (MS) R4081237-3 06/13/24 10:57 • (MSD) R4081237-4 06/13/24 11:25

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 276 | 5.13 | 321 | 277 | 115 | 98.8 | 30.3 | 10.0-141 | | | 14.5 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *111* | *109* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4081302-3 06/13/24 09:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.86 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.2* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081302-1 06/13/24 08:22 • (LCSD) R4081302-2 06/13/24 08:41

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.13 | 4.65 | 82.6 | 93.0 | 72.0-125 | | | 11.8 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *102* | *99.0* | *77.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4081951-2 06/13/24 13:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.83 | J | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *89.9* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4081951-1 06/13/24 11:47

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.92 | 98.4 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *97.9* | *77.0-120* | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Method Blank (MB)

(MB) R4080728-2 06/12/24 03:04

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| TPHG C5 - C12 | 69.0 | J | 30.4 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.7* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4080728-1 06/12/24 01:55

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5000 | 5740 | 115 | 71.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *106* | *78.0-120* | |

## Method Blank (MB)

(MB) R4078862-2 06/06/24 10:12

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |

## Method Blank (MB)

(MB) R4078862-2 06/06/24 10:12

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R4078862-1 06/06/24 09:30

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 25.0 | 28.9 | 116 | 19.0-160 | J |
| Acrolein | 25.0 | 26.8 | 107 | 10.0-160 | J |
| Acrylonitrile | 25.0 | 31.7 | 127 | 55.0-149 | |
| Benzene | 5.00 | 4.71 | 94.2 | 70.0-123 | |

## Laboratory Control Sample (LCS)

(LCS) R4078862-1 06/06/24 09:30

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromobenzene | 5.00 | 5.06 | 101 | 73.0-121 | |
| Bromodichloromethane | 5.00 | 4.13 | 82.6 | 75.0-120 | |
| Bromoform | 5.00 | 3.47 | 69.4 | 68.0-132 | |
| Bromomethane | 5.00 | 2.47 | 49.4 | 10.0-160 | J |
| n-Butylbenzene | 5.00 | 4.63 | 92.6 | 73.0-125 | |
| sec-Butylbenzene | 5.00 | 5.00 | 100 | 75.0-125 | |
| tert-Butylbenzene | 5.00 | 5.05 | 101 | 76.0-124 | |
| Carbon tetrachloride | 5.00 | 4.32 | 86.4 | 68.0-126 | |
| Chlorobenzene | 5.00 | 4.26 | 85.2 | 80.0-121 | |
| Chlorodibromomethane | 5.00 | 3.84 | 76.8 | 77.0-125 | M |
| Chloroethane | 5.00 | 3.97 | 79.4 | 47.0-150 | J |
| Chloroform | 5.00 | 4.71 | 94.2 | 73.0-120 | J |
| Chloromethane | 5.00 | 5.35 | 107 | 41.0-142 | |
| 2-Chlorotoluene | 5.00 | 5.06 | 101 | 76.0-123 | |
| 4-Chlorotoluene | 5.00 | 4.72 | 94.4 | 75.0-122 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 3.32 | 66.4 | 58.0-134 | J |
| 1,2-Dibromoethane | 5.00 | 4.23 | 84.6 | 80.0-122 | |
| Dibromomethane | 5.00 | 4.26 | 85.2 | 80.0-120 | |
| 1,2-Dichlorobenzene | 5.00 | 5.07 | 101 | 79.0-121 | |
| 1,3-Dichlorobenzene | 5.00 | 4.93 | 98.6 | 79.0-120 | |
| 1,4-Dichlorobenzene | 5.00 | 4.85 | 97.0 | 79.0-120 | |
| Dichlorodifluoromethane | 5.00 | 3.84 | 76.8 | 51.0-149 | J |
| 1,1-Dichloroethane | 5.00 | 5.07 | 101 | 70.0-126 | |
| 1,2-Dichloroethane | 5.00 | 4.89 | 97.8 | 70.0-128 | |
| 1,1-Dichloroethene | 5.00 | 4.40 | 88.0 | 71.0-124 | |
| cis-1,2-Dichloroethene | 5.00 | 4.60 | 92.0 | 73.0-120 | |
| trans-1,2-Dichloroethene | 5.00 | 4.54 | 90.8 | 73.0-120 | |
| 1,2-Dichloropropane | 5.00 | 5.21 | 104 | 77.0-125 | |
| 1,1-Dichloropropene | 5.00 | 4.91 | 98.2 | 74.0-126 | |
| 1,3-Dichloropropane | 5.00 | 4.41 | 88.2 | 80.0-120 | |
| cis-1,3-Dichloropropene | 5.00 | 4.28 | 85.6 | 80.0-123 | |
| trans-1,3-Dichloropropene | 5.00 | 3.92 | 78.4 | 78.0-124 | |
| 2,2-Dichloropropane | 5.00 | 4.02 | 80.4 | 58.0-130 | |
| Di-isopropyl ether | 5.00 | 5.73 | 115 | 58.0-138 | |
| Ethylbenzene | 5.00 | 4.82 | 96.4 | 79.0-123 | |
| Hexachloro-1,3-butadiene | 5.00 | 4.58 | 91.6 | 54.0-138 | |
| Isopropylbenzene | 5.00 | 4.50 | 90.0 | 76.0-127 | |
| p-Isopropyltoluene | 5.00 | 4.71 | 94.2 | 76.0-125 | |
| 2-Butanone (MEK) | 25.0 | 31.1 | 124 | 44.0-160 | |
| Methylene Chloride | 5.00 | 4.53 | 90.6 | 67.0-120 | J |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Laboratory Control Sample (LCS)

(LCS) R4078862-1 06/06/24 09:30

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 25.9 | 104 | 68.0-142 | |
| Methyl tert-butyl ether | 5.00 | 4.45 | 89.0 | 68.0-125 | |
| Naphthalene | 5.00 | 3.29 | 65.8 | 54.0-135 | J |
| n-Propylbenzene | 5.00 | 4.94 | 98.8 | 77.0-124 | |
| Styrene | 5.00 | 4.36 | 87.2 | 73.0-130 | |
| 1,1,1,2-Tetrachloroethane | 5.00 | 3.90 | 78.0 | 75.0-125 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 5.06 | 101 | 65.0-130 | |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 4.69 | 93.8 | 69.0-132 | |
| Tetrachloroethene | 5.00 | 4.41 | 88.2 | 72.0-132 | |
| Toluene | 5.00 | 4.35 | 87.0 | 79.0-120 | |
| 1,2,3-Trichlorobenzene | 5.00 | 3.61 | 72.2 | 50.0-138 | |
| 1,2,4-Trichlorobenzene | 5.00 | 3.78 | 75.6 | 57.0-137 | |
| 1,1,1-Trichloroethane | 5.00 | 4.14 | 82.8 | 73.0-124 | |
| 1,1,2-Trichloroethane | 5.00 | 4.49 | 89.8 | 80.0-120 | |
| Trichloroethene | 5.00 | 4.46 | 89.2 | 78.0-124 | |
| Trichlorofluoromethane | 5.00 | 4.52 | 90.4 | 59.0-147 | J |
| 1,2,3-Trichloropropane | 5.00 | 5.20 | 104 | 73.0-130 | |
| 1,2,4-Trimethylbenzene | 5.00 | 5.04 | 101 | 76.0-121 | |
| 1,2,3-Trimethylbenzene | 5.00 | 4.91 | 98.2 | 77.0-120 | |
| 1,3,5-Trimethylbenzene | 5.00 | 5.13 | 103 | 76.0-122 | |
| Vinyl chloride | 5.00 | 4.83 | 96.6 | 67.0-131 | |
| Xylenes, Total | 15.0 | 13.3 | 88.7 | 79.0-123 | |
| *(S) Toluene-d8* | | | *99.1* | *80.0-120* | |
| *(S) 4-Bromofluorobenzene* | | | *95.0* | *77.0-126* | |
| *(S) 1,2-Dichloroethane-d4* | | | *110* | *70.0-130* | |

## Method Blank (MB)

(MB) R4080721-3 06/11/24 10:46

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4080721-3 06/11/24 10:46

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *96.6* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *96.8* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *81.3* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080721-1 06/11/24 08:56 • (LCSD) R4080721-2 06/11/24 09:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.802 | 0.841 | 128 | 135 | 10.0-160 | | | 4.75 | 31 |
| Acrylonitrile | 0.625 | 0.619 | 0.651 | 99.0 | 104 | 45.0-153 | | | 5.04 | 22 |
| Benzene | 0.125 | 0.125 | 0.133 | 100 | 106 | 70.0-123 | | | 6.20 | 20 |
| Bromobenzene | 0.125 | 0.122 | 0.128 | 97.6 | 102 | 73.0-121 | | | 4.80 | 20 |
| Bromodichloromethane | 0.125 | 0.115 | 0.130 | 92.0 | 104 | 73.0-121 | | | 12.2 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080721-1 06/11/24 08:56 • (LCSD) R4080721-2 06/11/24 09:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.111 | 0.120 | 88.8 | 96.0 | 64.0-132 | | | 7.79 | 20 |
| Bromomethane | 0.125 | 0.0933 | 0.0926 | 74.6 | 74.1 | 56.0-147 | | | 0.753 | 20 |
| n-Butylbenzene | 0.125 | 0.0952 | 0.110 | 76.2 | 88.0 | 68.0-135 | | | 14.4 | 20 |
| sec-Butylbenzene | 0.125 | 0.129 | 0.135 | 103 | 108 | 74.0-130 | | | 4.55 | 20 |
| tert-Butylbenzene | 0.125 | 0.0944 | 0.0990 | 75.5 | 79.2 | 75.0-127 | | | 4.76 | 20 |
| Carbon tetrachloride | 0.125 | 0.126 | 0.135 | 101 | 108 | 66.0-128 | | | 6.90 | 20 |
| Chlorobenzene | 0.125 | 0.126 | 0.133 | 101 | 106 | 76.0-128 | | | 5.41 | 20 |
| Chlorodibromomethane | 0.125 | 0.104 | 0.112 | 83.2 | 89.6 | 74.0-127 | | | 7.41 | 20 |
| Chloroethane | 0.125 | 0.0933 | 0.107 | 74.6 | 85.6 | 61.0-134 | | | 13.7 | 20 |
| Chloroform | 0.125 | 0.122 | 0.124 | 97.6 | 99.2 | 72.0-123 | | | 1.63 | 20 |
| Chloromethane | 0.125 | 0.0999 | 0.114 | 79.9 | 91.2 | 51.0-138 | | | 13.2 | 20 |
| 2-Chlorotoluene | 0.125 | 0.124 | 0.111 | 99.2 | 88.8 | 75.0-124 | | | 11.1 | 20 |
| 4-Chlorotoluene | 0.125 | 0.118 | 0.127 | 94.4 | 102 | 75.0-124 | | | 7.35 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.104 | 0.107 | 83.2 | 85.6 | 59.0-130 | | | 2.84 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.108 | 0.129 | 86.4 | 103 | 74.0-128 | | | 17.7 | 20 |
| Dibromomethane | 0.125 | 0.119 | 0.135 | 95.2 | 108 | 75.0-122 | | | 12.6 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.116 | 0.123 | 92.8 | 98.4 | 76.0-124 | | | 5.86 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.119 | 0.128 | 95.2 | 102 | 76.0-125 | | | 7.29 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.110 | 0.125 | 88.0 | 100 | 77.0-121 | | | 12.8 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.145 | 0.143 | 116 | 114 | 43.0-156 | | | 1.39 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.130 | 0.136 | 104 | 109 | 70.0-127 | | | 4.51 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.103 | 0.116 | 82.4 | 92.8 | 65.0-131 | | | 11.9 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.133 | 0.137 | 106 | 110 | 65.0-131 | | | 2.96 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.125 | 0.131 | 100 | 105 | 73.0-125 | | | 4.69 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.134 | 0.144 | 107 | 115 | 71.0-125 | | | 7.19 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.119 | 0.127 | 95.2 | 102 | 74.0-125 | | | 6.50 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.124 | 0.136 | 99.2 | 109 | 73.0-125 | | | 9.23 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.123 | 0.136 | 98.4 | 109 | 80.0-125 | | | 10.0 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.122 | 0.135 | 97.6 | 108 | 76.0-127 | | | 10.1 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.101 | 0.110 | 80.8 | 88.0 | 73.0-127 | | | 8.53 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.130 | 0.140 | 104 | 112 | 59.0-135 | | | 7.41 | 20 |
| Di-isopropyl ether | 0.125 | 0.121 | 0.127 | 96.8 | 102 | 60.0-136 | | | 4.84 | 20 |
| Ethylbenzene | 0.125 | 0.120 | 0.126 | 96.0 | 101 | 74.0-126 | | | 4.88 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.0975 | 0.108 | 78.0 | 86.4 | 57.0-150 | | | 10.2 | 20 |
| Isopropylbenzene | 0.125 | 0.114 | 0.122 | 91.2 | 97.6 | 72.0-127 | | | 6.78 | 20 |
| p-Isopropyltoluene | 0.125 | 0.0951 | 0.102 | 76.1 | 81.6 | 72.0-133 | | | 7.00 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.676 | 0.755 | 108 | 121 | 30.0-160 | | | 11.0 | 24 |
| Methylene Chloride | 0.125 | 0.128 | 0.134 | 102 | 107 | 68.0-123 | | | 4.58 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.571 | 0.602 | 91.4 | 96.3 | 56.0-143 | | | 5.29 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.121 | 0.127 | 96.8 | 102 | 66.0-132 | | | 4.84 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080721-1 06/11/24 08:56 • (LCSD) R4080721-2 06/11/24 09:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.104 | 0.103 | 83.2 | 82.4 | 59.0-130 | | | 0.966 | 20 |
| n-Propylbenzene | 0.125 | 0.120 | 0.123 | 96.0 | 98.4 | 74.0-126 | | | 2.47 | 20 |
| Styrene | 0.125 | 0.118 | 0.128 | 94.4 | 102 | 72.0-127 | | | 8.13 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.113 | 0.115 | 90.4 | 92.0 | 74.0-129 | | | 1.75 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.122 | 0.124 | 97.6 | 99.2 | 68.0-128 | | | 1.63 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.137 | 0.144 | 110 | 115 | 61.0-139 | | | 4.98 | 20 |
| Tetrachloroethene | 0.125 | 0.114 | 0.123 | 91.2 | 98.4 | 70.0-136 | | | 7.59 | 20 |
| Toluene | 0.125 | 0.113 | 0.120 | 90.4 | 96.0 | 75.0-121 | | | 6.01 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.0987 | 0.109 | 79.0 | 87.2 | 59.0-139 | | | 9.92 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.103 | 0.110 | 82.4 | 88.0 | 62.0-137 | | | 6.57 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.127 | 0.131 | 102 | 105 | 69.0-126 | | | 3.10 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.114 | 0.122 | 91.2 | 97.6 | 78.0-123 | | | 6.78 | 20 |
| Trichloroethene | 0.125 | 0.119 | 0.129 | 95.2 | 103 | 76.0-126 | | | 8.06 | 20 |
| Trichlorofluoromethane | 0.125 | 0.117 | 0.127 | 93.6 | 102 | 61.0-142 | | | 8.20 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.117 | 0.111 | 93.6 | 88.8 | 67.0-129 | | | 5.26 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.101 | 0.104 | 80.8 | 83.2 | 70.0-126 | | | 2.93 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.112 | 0.111 | 89.6 | 88.8 | 74.0-124 | | | 0.897 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.108 | 0.111 | 86.4 | 88.8 | 73.0-127 | | | 2.74 | 20 |
| Vinyl chloride | 0.125 | 0.107 | 0.0908 | 85.6 | 72.6 | 63.0-134 | | | 16.4 | 20 |
| Xylenes, Total | 0.375 | 0.350 | 0.370 | 93.3 | 98.7 | 72.0-127 | | | 5.56 | 20 |
| *(S) Toluene-d8* | | | | *94.2* | *93.5* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *96.9* | *101* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *90.6* | *89.9* | *70.0-130* | | | | |

## L1743427-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743427-04 06/11/24 18:19 • (MS) R4080721-4 06/11/24 19:26 • (MSD) R4080721-5 06/11/24 19:48

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 50.0 | U | 60.1 | 60.9 | 120 | 122 | 80 | 10.0-160 | | | 1.32 | 40 |
| Acrylonitrile | 50.0 | U | 53.1 | 49.1 | 106 | 98.2 | 80 | 10.0-160 | | | 7.83 | 40 |
| Benzene | 10.0 | 0.126 | 11.4 | 10.5 | 113 | 104 | 80 | 10.0-149 | | | 8.22 | 37 |
| Bromobenzene | 10.0 | U | 14.6 | 10.5 | 146 | 105 | 80 | 10.0-156 | | | 32.7 | 38 |
| Bromodichloromethane | 10.0 | U | 10.9 | 10.6 | 109 | 106 | 80 | 10.0-143 | | | 2.79 | 37 |
| Bromoform | 10.0 | U | 9.54 | 9.02 | 95.4 | 90.2 | 80 | 10.0-146 | | | 5.60 | 36 |
| Bromomethane | 10.0 | U | 6.83 | 5.70 | 68.3 | 57.0 | 80 | 10.0-149 | | | 18.0 | 38 |
| n-Butylbenzene | 10.0 | 3.99 | 95.2 | 86.6 | 912 | 826 | 80 | 10.0-160 | J5 | J5 | 9.46 | 40 |
| sec-Butylbenzene | 10.0 | 4.07 | 26.1 | 20.3 | 220 | 162 | 80 | 10.0-159 | J5 | J5 | 25.0 | 39 |
| tert-Butylbenzene | 10.0 | U | 16.0 | 13.0 | 160 | 130 | 80 | 10.0-156 | J5 | | 20.7 | 39 |

## L1743427-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743427-04 06/11/24 18:19 • (MS) R4080721-4 06/11/24 19:26 • (MSD) R4080721-5 06/11/24 19:48

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 10.0 | U | 11.3 | 10.5 | 113 | 105 | 80 | 10.0-145 | | | 7.34 | 37 |
| Chlorobenzene | 10.0 | U | 11.4 | 11.1 | 114 | 111 | 80 | 10.0-152 | | | 2.67 | 39 |
| Chlorodibromomethane | 10.0 | U | 8.59 | 8.93 | 85.9 | 89.3 | 80 | 10.0-146 | | | 3.88 | 37 |
| Chloroethane | 10.0 | U | 7.73 | 6.09 | 77.3 | 60.9 | 80 | 10.0-146 | | | 23.7 | 40 |
| Chloroform | 10.0 | U | 10.7 | 10.1 | 107 | 101 | 80 | 10.0-146 | | | 5.77 | 37 |
| Chloromethane | 10.0 | U | 9.72 | 8.69 | 97.2 | 86.9 | 80 | 10.0-159 | | | 11.2 | 37 |
| 2-Chlorotoluene | 10.0 | U | 13.6 | 9.77 | 136 | 97.7 | 80 | 10.0-159 | | | 32.8 | 38 |
| 4-Chlorotoluene | 10.0 | U | 14.5 | 10.8 | 145 | 108 | 80 | 10.0-155 | | | 29.2 | 39 |
| 1,2-Dibromo-3-Chloropropane | 10.0 | U | 9.29 | 9.36 | 92.9 | 93.6 | 80 | 10.0-151 | | | 0.751 | 39 |
| 1,2-Dibromoethane | 10.0 | U | 9.56 | 10.2 | 95.6 | 102 | 80 | 10.0-148 | | | 6.48 | 34 |
| Dibromomethane | 10.0 | U | 11.1 | 11.4 | 111 | 114 | 80 | 10.0-147 | | | 2.67 | 35 |
| 1,2-Dichlorobenzene | 10.0 | U | 13.2 | 10.7 | 132 | 107 | 80 | 10.0-155 | | | 20.9 | 37 |
| 1,3-Dichlorobenzene | 10.0 | U | 12.1 | 10.7 | 121 | 107 | 80 | 10.0-153 | | | 12.3 | 38 |
| 1,4-Dichlorobenzene | 10.0 | U | 10.3 | 10.4 | 103 | 104 | 80 | 10.0-151 | | | 0.966 | 38 |
| Dichlorodifluoromethane | 10.0 | U | 12.1 | 9.70 | 121 | 97.0 | 80 | 10.0-160 | | | 22.0 | 35 |
| 1,1-Dichloroethane | 10.0 | U | 11.5 | 10.5 | 115 | 105 | 80 | 10.0-147 | | | 9.09 | 37 |
| 1,2-Dichloroethane | 10.0 | U | 9.56 | 8.85 | 95.6 | 88.5 | 80 | 10.0-148 | | | 7.71 | 35 |
| 1,1-Dichloroethene | 10.0 | U | 11.1 | 7.67 | 111 | 76.7 | 80 | 10.0-155 | | | 36.5 | 37 |
| cis-1,2-Dichloroethene | 10.0 | U | 10.5 | 9.93 | 105 | 99.3 | 80 | 10.0-149 | | | 5.58 | 37 |
| trans-1,2-Dichloroethene | 10.0 | U | 11.0 | 11.1 | 110 | 111 | 80 | 10.0-150 | | | 0.905 | 37 |
| 1,2-Dichloropropane | 10.0 | U | 11.6 | 11.3 | 116 | 113 | 80 | 10.0-148 | | | 2.62 | 37 |
| 1,1-Dichloropropene | 10.0 | U | 11.7 | 11.4 | 117 | 114 | 80 | 10.0-153 | | | 2.60 | 35 |
| 1,3-Dichloropropane | 10.0 | U | 11.0 | 10.5 | 110 | 105 | 80 | 10.0-154 | | | 4.65 | 35 |
| cis-1,3-Dichloropropene | 10.0 | U | 11.3 | 10.2 | 113 | 102 | 80 | 10.0-151 | | | 10.2 | 37 |
| trans-1,3-Dichloropropene | 10.0 | U | 8.79 | 8.81 | 87.9 | 88.1 | 80 | 10.0-148 | | | 0.227 | 37 |
| 2,2-Dichloropropane | 10.0 | U | 9.06 | 8.41 | 90.6 | 84.1 | 80 | 10.0-138 | | | 7.44 | 36 |
| Di-isopropyl ether | 10.0 | U | 10.4 | 10.0 | 104 | 100 | 80 | 10.0-147 | | | 3.92 | 36 |
| Ethylbenzene | 10.0 | 51.0 | 57.8 | 62.7 | 68.0 | 117 | 80 | 10.0-160 | | | 8.13 | 38 |
| Hexachloro-1,3-butadiene | 10.0 | U | 15.2 | 13.9 | 152 | 139 | 80 | 10.0-160 | | | 8.93 | 40 |
| Isopropylbenzene | 10.0 | 6.36 | 17.8 | 18.5 | 114 | 121 | 80 | 10.0-155 | | | 3.86 | 38 |
| p-Isopropyltoluene | 10.0 | 3.13 | 26.4 | 22.3 | 233 | 192 | 80 | 10.0-160 | J5 | J5 | 16.8 | 40 |
| 2-Butanone (MEK) | 50.0 | U | 41.1 | 61.2 | 82.2 | 122 | 80 | 10.0-160 | | | 39.3 | 40 |
| Methylene Chloride | 10.0 | U | 10.6 | 9.98 | 106 | 99.8 | 80 | 10.0-141 | | | 6.03 | 37 |
| 4-Methyl-2-pentanone (MIBK) | 50.0 | U | 67.6 | 71.1 | 135 | 142 | 80 | 10.0-160 | | | 5.05 | 35 |
| Methyl tert-butyl ether | 10.0 | U | 11.1 | 10.1 | 111 | 101 | 80 | 11.0-147 | | | 9.43 | 35 |
| Naphthalene | 10.0 | 16.5 | 35.5 | 31.1 | 190 | 146 | 80 | 10.0-160 | J6 | | 13.2 | 36 |
| n-Propylbenzene | 10.0 | 19.6 | 46.7 | 36.8 | 271 | 172 | 80 | 10.0-158 | J5 | J5 | 23.7 | 38 |
| Styrene | 10.0 | U | 13.0 | 5.31 | 130 | 53.1 | 80 | 10.0-160 | | J3 | 84.0 | 40 |
| 1,1,1,2-Tetrachloroethane | 10.0 | U | 9.98 | 10.3 | 99.8 | 103 | 80 | 10.0-149 | | | 3.16 | 39 |
| 1,1,2,2-Tetrachloroethane | 10.0 | U | 21.2 | 20.3 | 212 | 203 | 80 | 10.0-160 | J6 | J5 | 4.34 | 35 |

## L1743427-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1743427-04 06/11/24 18:19 • (MS) R4080721-4 06/11/24 19:26 • (MSD) R4080721-5 06/11/24 19:48

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | 10.0 | U | 12.1 | 9.84 | 121 | 98.4 | 80 | 10.0-160 | | | 20.6 | 36 |
| Tetrachloroethene | 10.0 | U | 10.2 | 10.2 | 102 | 102 | 80 | 10.0-156 | | | 0.000 | 39 |
| Toluene | 10.0 | 29.9 | 38.7 | 40.6 | 88.0 | 107 | 80 | 10.0-156 | | | 4.79 | 38 |
| 1,2,3-Trichlorobenzene | 10.0 | U | 12.1 | 11.1 | 121 | 111 | 80 | 10.0-160 | | | 8.62 | 40 |
| 1,2,4-Trichlorobenzene | 10.0 | U | 12.4 | 11.5 | 124 | 115 | 80 | 10.0-160 | | | 7.53 | 40 |
| 1,1,1-Trichloroethane | 10.0 | U | 10.7 | 10.3 | 107 | 103 | 80 | 10.0-144 | | | 3.81 | 35 |
| 1,1,2-Trichloroethane | 10.0 | U | 14.1 | 13.6 | 141 | 136 | 80 | 10.0-160 | | | 3.61 | 35 |
| Trichloroethene | 10.0 | U | 12.2 | 11.6 | 122 | 116 | 80 | 10.0-156 | | | 5.04 | 38 |
| Trichlorofluoromethane | 10.0 | U | 10.2 | 8.52 | 102 | 85.2 | 80 | 10.0-160 | | | 17.9 | 40 |
| 1,2,3-Trichloropropane | 10.0 | U | 14.4 | 10.8 | 144 | 108 | 80 | 10.0-156 | | | 28.6 | 35 |
| 1,2,4-Trimethylbenzene | 10.0 | 84.7 | 138 | 111 | 533 | 263 | 80 | 10.0-160 | V | V | 21.7 | 36 |
| 1,2,3-Trimethylbenzene | 10.0 | 28.1 | 42.2 | 44.5 | 141 | 164 | 80 | 10.0-160 | | J5 | 5.31 | 36 |
| 1,3,5-Trimethylbenzene | 10.0 | 30.7 | 44.3 | 29.8 | 136 | 0.000 | 80 | 10.0-160 | | J3 J6 | 39.1 | 38 |
| Vinyl chloride | 10.0 | U | 8.73 | 8.49 | 87.3 | 84.9 | 80 | 10.0-160 | | | 2.79 | 37 |
| Xylenes, Total | 30.0 | 278 | 288 | 309 | 33.3 | 103 | 80 | 10.0-160 | | | 7.04 | 38 |
| *(S) Toluene-d8* | | | | | *90.8* | *97.9* | | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *122* | *126* | | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *86.6* | *83.9* | | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4080895-3 06/11/24 15:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4080895-3 06/11/24 15:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *88.4* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080895-1 06/11/24 14:24 • (LCSD) R4080895-2 06/11/24 14:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.588 | 0.587 | 94.1 | 93.9 | 10.0-160 | | | 0.170 | 31 |
| Acrylonitrile | 0.625 | 0.740 | 0.725 | 118 | 116 | 45.0-153 | | | 2.05 | 22 |
| Benzene | 0.125 | 0.123 | 0.123 | 98.4 | 98.4 | 70.0-123 | | | 0.000 | 20 |
| Bromobenzene | 0.125 | 0.115 | 0.117 | 92.0 | 93.6 | 73.0-121 | | | 1.72 | 20 |
| Bromodichloromethane | 0.125 | 0.121 | 0.122 | 96.8 | 97.6 | 73.0-121 | | | 0.823 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080895-1 06/11/24 14:24 • (LCSD) R4080895-2 06/11/24 14:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.114 | 0.114 | 91.2 | 91.2 | 64.0-132 | | | 0.000 | 20 |
| Bromomethane | 0.125 | 0.126 | 0.129 | 101 | 103 | 56.0-147 | | | 2.35 | 20 |
| n-Butylbenzene | 0.125 | 0.124 | 0.119 | 99.2 | 95.2 | 68.0-135 | | | 4.12 | 20 |
| sec-Butylbenzene | 0.125 | 0.115 | 0.114 | 92.0 | 91.2 | 74.0-130 | | | 0.873 | 20 |
| tert-Butylbenzene | 0.125 | 0.123 | 0.121 | 98.4 | 96.8 | 75.0-127 | | | 1.64 | 20 |
| Carbon tetrachloride | 0.125 | 0.132 | 0.135 | 106 | 108 | 66.0-128 | | | 2.25 | 20 |
| Chlorobenzene | 0.125 | 0.123 | 0.125 | 98.4 | 100 | 76.0-128 | | | 1.61 | 20 |
| Chlorodibromomethane | 0.125 | 0.119 | 0.124 | 95.2 | 99.2 | 74.0-127 | | | 4.12 | 20 |
| Chloroethane | 0.125 | 0.126 | 0.125 | 101 | 100 | 61.0-134 | | | 0.797 | 20 |
| Chloroform | 0.125 | 0.116 | 0.118 | 92.8 | 94.4 | 72.0-123 | | | 1.71 | 20 |
| Chloromethane | 0.125 | 0.138 | 0.140 | 110 | 112 | 51.0-138 | | | 1.44 | 20 |
| 2-Chlorotoluene | 0.125 | 0.116 | 0.115 | 92.8 | 92.0 | 75.0-124 | | | 0.866 | 20 |
| 4-Chlorotoluene | 0.125 | 0.109 | 0.111 | 87.2 | 88.8 | 75.0-124 | | | 1.82 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.106 | 0.110 | 84.8 | 88.0 | 59.0-130 | | | 3.70 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.124 | 0.127 | 99.2 | 102 | 74.0-128 | | | 2.39 | 20 |
| Dibromomethane | 0.125 | 0.122 | 0.124 | 97.6 | 99.2 | 75.0-122 | | | 1.63 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.125 | 0.128 | 100 | 102 | 76.0-124 | | | 2.37 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 76.0-125 | | | 2.45 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.123 | 0.123 | 98.4 | 98.4 | 77.0-121 | | | 0.000 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.162 | 0.161 | 130 | 129 | 43.0-156 | | | 0.619 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.125 | 0.127 | 100 | 102 | 70.0-127 | | | 1.59 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.109 | 0.110 | 87.2 | 88.0 | 65.0-131 | | | 0.913 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.128 | 0.127 | 102 | 102 | 65.0-131 | | | 0.784 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.118 | 0.122 | 94.4 | 97.6 | 73.0-125 | | | 3.33 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.120 | 0.127 | 96.0 | 102 | 71.0-125 | | | 5.67 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.125 | 0.131 | 100 | 105 | 74.0-125 | | | 4.69 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.128 | 0.126 | 102 | 101 | 73.0-125 | | | 1.57 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.123 | 0.125 | 98.4 | 100 | 80.0-125 | | | 1.61 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.128 | 0.130 | 102 | 104 | 76.0-127 | | | 1.55 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.124 | 0.127 | 99.2 | 102 | 73.0-127 | | | 2.39 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.126 | 0.121 | 101 | 96.8 | 59.0-135 | | | 4.05 | 20 |
| Di-isopropyl ether | 0.125 | 0.118 | 0.120 | 94.4 | 96.0 | 60.0-136 | | | 1.68 | 20 |
| Ethylbenzene | 0.125 | 0.124 | 0.127 | 99.2 | 102 | 74.0-126 | | | 2.39 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.138 | 0.141 | 110 | 113 | 57.0-150 | | | 2.15 | 20 |
| Isopropylbenzene | 0.125 | 0.126 | 0.126 | 101 | 101 | 72.0-127 | | | 0.000 | 20 |
| p-Isopropyltoluene | 0.125 | 0.119 | 0.115 | 95.2 | 92.0 | 72.0-133 | | | 3.42 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.726 | 0.760 | 116 | 122 | 30.0-160 | | | 4.58 | 24 |
| Methylene Chloride | 0.125 | 0.121 | 0.121 | 96.8 | 96.8 | 68.0-123 | | | 0.000 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.645 | 0.652 | 103 | 104 | 56.0-143 | | | 1.08 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.120 | 0.123 | 96.0 | 98.4 | 66.0-132 | | | 2.47 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080895-1 06/11/24 14:24 • (LCSD) R4080895-2 06/11/24 14:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.106 | 0.109 | 84.8 | 87.2 | 59.0-130 | | | 2.79 | 20 |
| n-Propylbenzene | 0.125 | 0.105 | 0.107 | 84.0 | 85.6 | 74.0-126 | | | 1.89 | 20 |
| Styrene | 0.125 | 0.119 | 0.123 | 95.2 | 98.4 | 72.0-127 | | | 3.31 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.119 | 0.119 | 95.2 | 95.2 | 74.0-129 | | | 0.000 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.105 | 0.107 | 84.0 | 85.6 | 68.0-128 | | | 1.89 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.137 | 0.138 | 110 | 110 | 61.0-139 | | | 0.727 | 20 |
| Tetrachloroethene | 0.125 | 0.136 | 0.138 | 109 | 110 | 70.0-136 | | | 1.46 | 20 |
| Toluene | 0.125 | 0.116 | 0.117 | 92.8 | 93.6 | 75.0-121 | | | 0.858 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.129 | 0.134 | 103 | 107 | 59.0-139 | | | 3.80 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.140 | 0.140 | 112 | 112 | 62.0-137 | | | 0.000 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.136 | 0.132 | 109 | 106 | 69.0-126 | | | 2.99 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.124 | 0.124 | 99.2 | 99.2 | 78.0-123 | | | 0.000 | 20 |
| Trichloroethene | 0.125 | 0.141 | 0.144 | 113 | 115 | 76.0-126 | | | 2.11 | 20 |
| Trichlorofluoromethane | 0.125 | 0.139 | 0.142 | 111 | 114 | 61.0-142 | | | 2.14 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.110 | 0.113 | 88.0 | 90.4 | 67.0-129 | | | 2.69 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.113 | 0.113 | 90.4 | 90.4 | 70.0-126 | | | 0.000 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.114 | 0.111 | 91.2 | 88.8 | 74.0-124 | | | 2.67 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.117 | 0.115 | 93.6 | 92.0 | 73.0-127 | | | 1.72 | 20 |
| Vinyl chloride | 0.125 | 0.127 | 0.128 | 102 | 102 | 63.0-134 | | | 0.784 | 20 |
| Xylenes, Total | 0.375 | 0.379 | 0.382 | 101 | 102 | 72.0-127 | | | 0.788 | 20 |
| *(S) Toluene-d8* | | | | *98.2* | *97.4* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *106* | *106* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *97.2* | *96.1* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4080918-3 06/11/24 17:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4080918-3 06/11/24 17:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *100* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080918-1 06/11/24 15:47 • (LCSD) R4080918-2 06/11/24 16:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 1.17 | 0.771 | 187 | 123 | 10.0-160 | J4 | J3 | 41.1 | 31 |
| Acrylonitrile | 0.625 | 0.874 | 0.791 | 140 | 127 | 45.0-153 | | | 9.97 | 22 |
| Benzene | 0.125 | 0.123 | 0.107 | 98.4 | 85.6 | 70.0-123 | | | 13.9 | 20 |
| Bromobenzene | 0.125 | 0.140 | 0.124 | 112 | 99.2 | 73.0-121 | | | 12.1 | 20 |
| Bromodichloromethane | 0.125 | 0.133 | 0.119 | 106 | 95.2 | 73.0-121 | | | 11.1 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080918-1 06/11/24 15:47 • (LCSD) R4080918-2 06/11/24 16:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.143 | 0.123 | 114 | 98.4 | 64.0-132 | | | 15.0 | 20 |
| Bromomethane | 0.125 | 0.122 | 0.119 | 97.6 | 95.2 | 56.0-147 | | | 2.49 | 20 |
| n-Butylbenzene | 0.125 | 0.125 | 0.109 | 100 | 87.2 | 68.0-135 | | | 13.7 | 20 |
| sec-Butylbenzene | 0.125 | 0.152 | 0.136 | 122 | 109 | 74.0-130 | | | 11.1 | 20 |
| tert-Butylbenzene | 0.125 | 0.157 | 0.136 | 126 | 109 | 75.0-127 | | | 14.3 | 20 |
| Carbon tetrachloride | 0.125 | 0.143 | 0.128 | 114 | 102 | 66.0-128 | | | 11.1 | 20 |
| Chlorobenzene | 0.125 | 0.129 | 0.109 | 103 | 87.2 | 76.0-128 | | | 16.8 | 20 |
| Chlorodibromomethane | 0.125 | 0.133 | 0.116 | 106 | 92.8 | 74.0-127 | | | 13.7 | 20 |
| Chloroethane | 0.125 | 0.126 | 0.118 | 101 | 94.4 | 61.0-134 | | | 6.56 | 20 |
| Chloroform | 0.125 | 0.122 | 0.112 | 97.6 | 89.6 | 72.0-123 | | | 8.55 | 20 |
| Chloromethane | 0.125 | 0.0962 | 0.0870 | 77.0 | 69.6 | 51.0-138 | | | 10.0 | 20 |
| 2-Chlorotoluene | 0.125 | 0.148 | 0.133 | 118 | 106 | 75.0-124 | | | 10.7 | 20 |
| 4-Chlorotoluene | 0.125 | 0.131 | 0.135 | 105 | 108 | 75.0-124 | | | 3.01 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.154 | 0.137 | 123 | 110 | 59.0-130 | | | 11.7 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.141 | 0.121 | 113 | 96.8 | 74.0-128 | | | 15.3 | 20 |
| Dibromomethane | 0.125 | 0.123 | 0.106 | 98.4 | 84.8 | 75.0-122 | | | 14.8 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.128 | 0.116 | 102 | 92.8 | 76.0-124 | | | 9.84 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.135 | 0.119 | 108 | 95.2 | 76.0-125 | | | 12.6 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.139 | 0.124 | 111 | 99.2 | 77.0-121 | | | 11.4 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.183 | 0.150 | 146 | 120 | 43.0-156 | | | 19.8 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.128 | 0.112 | 102 | 89.6 | 70.0-127 | | | 13.3 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.115 | 0.0960 | 92.0 | 76.8 | 65.0-131 | | | 18.0 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.126 | 0.115 | 101 | 92.0 | 65.0-131 | | | 9.13 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.123 | 0.114 | 98.4 | 91.2 | 73.0-125 | | | 7.59 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.137 | 0.115 | 110 | 92.0 | 71.0-125 | | | 17.5 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.113 | 0.100 | 90.4 | 80.0 | 74.0-125 | | | 12.2 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.139 | 0.123 | 111 | 98.4 | 73.0-125 | | | 12.2 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.140 | 0.120 | 112 | 96.0 | 80.0-125 | | | 15.4 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.137 | 0.121 | 110 | 96.8 | 76.0-127 | | | 12.4 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.147 | 0.127 | 118 | 102 | 73.0-127 | | | 14.6 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.153 | 0.141 | 122 | 113 | 59.0-135 | | | 8.16 | 20 |
| Di-isopropyl ether | 0.125 | 0.107 | 0.0946 | 85.6 | 75.7 | 60.0-136 | | | 12.3 | 20 |
| Ethylbenzene | 0.125 | 0.135 | 0.112 | 108 | 89.6 | 74.0-126 | | | 18.6 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.118 | 0.126 | 94.4 | 101 | 57.0-150 | | | 6.56 | 20 |
| Isopropylbenzene | 0.125 | 0.139 | 0.118 | 111 | 94.4 | 72.0-127 | | | 16.3 | 20 |
| p-Isopropyltoluene | 0.125 | 0.145 | 0.129 | 116 | 103 | 72.0-133 | | | 11.7 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.865 | 0.642 | 138 | 103 | 30.0-160 | | J5 | 29.6 | 24 |
| Methylene Chloride | 0.125 | 0.123 | 0.110 | 98.4 | 88.0 | 68.0-123 | | | 11.2 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.733 | 0.609 | 117 | 97.4 | 56.0-143 | | | 18.5 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.150 | 0.130 | 120 | 104 | 66.0-132 | | | 14.3 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4080918-1 06/11/24 15:47 • (LCSD) R4080918-2 06/11/24 16:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0798 | 0.0885 | 63.8 | 70.8 | 59.0-130 | | | 10.3 | 20 |
| n-Propylbenzene | 0.125 | 0.158 | 0.140 | 126 | 112 | 74.0-126 | | | 12.1 | 20 |
| Styrene | 0.125 | 0.128 | 0.109 | 102 | 87.2 | 72.0-127 | | | 16.0 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.131 | 0.110 | 105 | 88.0 | 74.0-129 | | | 17.4 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.154 | 0.131 | 123 | 105 | 68.0-128 | | | 16.1 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.143 | 0.112 | 114 | 89.6 | 61.0-139 | | J3 | 24.3 | 20 |
| Tetrachloroethene | 0.125 | 0.144 | 0.121 | 115 | 96.8 | 70.0-136 | | | 17.4 | 20 |
| Toluene | 0.125 | 0.134 | 0.111 | 107 | 88.8 | 75.0-121 | | | 18.8 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.0959 | 0.101 | 76.7 | 80.8 | 59.0-139 | | | 5.18 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.115 | 0.109 | 92.0 | 87.2 | 62.0-137 | | | 5.36 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.153 | 0.131 | 122 | 105 | 69.0-126 | | | 15.5 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.133 | 0.113 | 106 | 90.4 | 78.0-123 | | | 16.3 | 20 |
| Trichloroethene | 0.125 | 0.123 | 0.108 | 98.4 | 86.4 | 76.0-126 | | | 13.0 | 20 |
| Trichlorofluoromethane | 0.125 | 0.166 | 0.154 | 133 | 123 | 61.0-142 | | | 7.50 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.176 | 0.157 | 141 | 126 | 67.0-129 | J4 | | 11.4 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.151 | 0.130 | 121 | 104 | 70.0-126 | | | 14.9 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.140 | 0.122 | 112 | 97.6 | 74.0-124 | | | 13.7 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.152 | 0.131 | 122 | 105 | 73.0-127 | | | 14.8 | 20 |
| Vinyl chloride | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 63.0-134 | | | 3.45 | 20 |
| Xylenes, Total | 0.375 | 0.406 | 0.346 | 108 | 92.3 | 72.0-127 | | | 16.0 | 20 |
| *(S) Toluene-d8* | | | | *105* | *102* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.2* | *96.2* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *107* | *108* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4081215-3 06/12/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4081215-3 06/12/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | 0.00165 | J | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *113* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *96.5* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081215-1 06/12/24 21:07 • (LCSD) R4081215-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.538 | 0.522 | 86.1 | 83.5 | 10.0-160 | | | 3.02 | 31 |
| Acrylonitrile | 0.625 | 0.652 | 0.617 | 104 | 98.7 | 45.0-153 | | | 5.52 | 22 |
| Benzene | 0.125 | 0.123 | 0.114 | 98.4 | 91.2 | 70.0-123 | | | 7.59 | 20 |
| Bromobenzene | 0.125 | 0.148 | 0.134 | 118 | 107 | 73.0-121 | | | 9.93 | 20 |
| Bromodichloromethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 73.0-121 | | | 0.000 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-14

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081215-1 06/12/24 21:07 • (LCSD) R4081215-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.0984 | 0.101 | 78.7 | 80.8 | 64.0-132 | | | 2.61 | 20 |
| Bromomethane | 0.125 | 0.170 | 0.160 | 136 | 128 | 56.0-147 | | | 6.06 | 20 |
| n-Butylbenzene | 0.125 | 0.141 | 0.133 | 113 | 106 | 68.0-135 | | | 5.84 | 20 |
| sec-Butylbenzene | 0.125 | 0.142 | 0.136 | 114 | 109 | 74.0-130 | | | 4.32 | 20 |
| tert-Butylbenzene | 0.125 | 0.141 | 0.132 | 113 | 106 | 75.0-127 | | | 6.59 | 20 |
| Carbon tetrachloride | 0.125 | 0.115 | 0.109 | 92.0 | 87.2 | 66.0-128 | | | 5.36 | 20 |
| Chlorobenzene | 0.125 | 0.128 | 0.123 | 102 | 98.4 | 76.0-128 | | | 3.98 | 20 |
| Chlorodibromomethane | 0.125 | 0.111 | 0.115 | 88.8 | 92.0 | 74.0-127 | | | 3.54 | 20 |
| Chloroethane | 0.125 | 0.152 | 0.147 | 122 | 118 | 61.0-134 | | | 3.34 | 20 |
| Chloroform | 0.125 | 0.114 | 0.107 | 91.2 | 85.6 | 72.0-123 | | | 6.33 | 20 |
| Chloromethane | 0.125 | 0.142 | 0.134 | 114 | 107 | 51.0-138 | | | 5.80 | 20 |
| 2-Chlorotoluene | 0.125 | 0.150 | 0.126 | 120 | 101 | 75.0-124 | | | 17.4 | 20 |
| 4-Chlorotoluene | 0.125 | 0.154 | 0.145 | 123 | 116 | 75.0-124 | | | 6.02 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.117 | 0.119 | 93.6 | 95.2 | 59.0-130 | | | 1.69 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.130 | 0.126 | 104 | 101 | 74.0-128 | | | 3.12 | 20 |
| Dibromomethane | 0.125 | 0.113 | 0.116 | 90.4 | 92.8 | 75.0-122 | | | 2.62 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.141 | 0.140 | 113 | 112 | 76.0-124 | | | 0.712 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.151 | 0.146 | 121 | 117 | 76.0-125 | | | 3.37 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.129 | 0.126 | 103 | 101 | 77.0-121 | | | 2.35 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 43.0-156 | | | 3.45 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.115 | 0.107 | 92.0 | 85.6 | 70.0-127 | | | 7.21 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.128 | 0.125 | 102 | 100 | 65.0-131 | | | 2.37 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.122 | 0.115 | 97.6 | 92.0 | 65.0-131 | | | 5.91 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.110 | 0.106 | 88.0 | 84.8 | 73.0-125 | | | 3.70 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.115 | 0.116 | 92.0 | 92.8 | 71.0-125 | | | 0.866 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.116 | 0.111 | 92.8 | 88.8 | 74.0-125 | | | 4.41 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.119 | 0.113 | 95.2 | 90.4 | 73.0-125 | | | 5.17 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.130 | 0.130 | 104 | 104 | 80.0-125 | | | 0.000 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.122 | 0.119 | 97.6 | 95.2 | 76.0-127 | | | 2.49 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.111 | 0.111 | 88.8 | 88.8 | 73.0-127 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.129 | 0.117 | 103 | 93.6 | 59.0-135 | | | 9.76 | 20 |
| Di-isopropyl ether | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 60.0-136 | | | 0.881 | 20 |
| Ethylbenzene | 0.125 | 0.129 | 0.124 | 103 | 99.2 | 74.0-126 | | | 3.95 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.115 | 0.119 | 92.0 | 95.2 | 57.0-150 | | | 3.42 | 20 |
| Isopropylbenzene | 0.125 | 0.132 | 0.129 | 106 | 103 | 72.0-127 | | | 2.30 | 20 |
| p-Isopropyltoluene | 0.125 | 0.144 | 0.139 | 115 | 111 | 72.0-133 | | | 3.53 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.463 | 0.428 | 74.1 | 68.5 | 30.0-160 | | | 7.86 | 24 |
| Methylene Chloride | 0.125 | 0.106 | 0.107 | 84.8 | 85.6 | 68.0-123 | | | 0.939 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.706 | 0.702 | 113 | 112 | 56.0-143 | | | 0.568 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 66.0-132 | | | 0.881 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081215-1 06/12/24 21:07 • (LCSD) R4081215-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.131 | 0.133 | 105 | 106 | 59.0-130 | | | 1.52 | 20 |
| n-Propylbenzene | 0.125 | 0.138 | 0.134 | 110 | 107 | 74.0-126 | | | 2.94 | 20 |
| Styrene | 0.125 | 0.130 | 0.122 | 104 | 97.6 | 72.0-127 | | | 6.35 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 74.0-129 | | | 0.000 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.127 | 0.129 | 102 | 103 | 68.0-128 | | | 1.56 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.113 | 0.103 | 90.4 | 82.4 | 61.0-139 | | | 9.26 | 20 |
| Tetrachloroethene | 0.125 | 0.134 | 0.123 | 107 | 98.4 | 70.0-136 | | | 8.56 | 20 |
| Toluene | 0.125 | 0.133 | 0.128 | 106 | 102 | 75.0-121 | | | 3.83 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.143 | 0.142 | 114 | 114 | 59.0-139 | | | 0.702 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.131 | 0.129 | 105 | 103 | 62.0-137 | | | 1.54 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.118 | 0.113 | 94.4 | 90.4 | 69.0-126 | | | 4.33 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.124 | 0.123 | 99.2 | 98.4 | 78.0-123 | | | 0.810 | 20 |
| Trichloroethene | 0.125 | 0.126 | 0.118 | 101 | 94.4 | 76.0-126 | | | 6.56 | 20 |
| Trichlorofluoromethane | 0.125 | 0.151 | 0.148 | 121 | 118 | 61.0-142 | | | 2.01 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.144 | 0.148 | 115 | 118 | 67.0-129 | | | 2.74 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.144 | 0.135 | 115 | 108 | 70.0-126 | | | 6.45 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.143 | 0.133 | 114 | 106 | 74.0-124 | | | 7.25 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.143 | 0.132 | 114 | 106 | 73.0-127 | | | 8.00 | 20 |
| Vinyl chloride | 0.125 | 0.136 | 0.129 | 109 | 103 | 63.0-134 | | | 5.28 | 20 |
| Xylenes, Total | 0.375 | 0.419 | 0.401 | 112 | 107 | 72.0-127 | | | 4.39 | 20 |
| *(S) Toluene-d8* | | | | *110* | *109* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *99.1* | *97.3* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *114* | *111* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4081216-3 06/12/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4081216-3 06/12/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | 0.00165 | J | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *113* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *96.5* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081216-1 06/12/24 21:07 • (LCSD) R4081216-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.538 | 0.522 | 86.1 | 83.5 | 10.0-160 | | | 3.02 | 31 |
| Acrylonitrile | 0.625 | 0.652 | 0.617 | 104 | 98.7 | 45.0-153 | | | 5.52 | 22 |
| Benzene | 0.125 | 0.123 | 0.114 | 98.4 | 91.2 | 70.0-123 | | | 7.59 | 20 |
| Bromobenzene | 0.125 | 0.148 | 0.134 | 118 | 107 | 73.0-121 | | | 9.93 | 20 |
| Bromodichloromethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 73.0-121 | | | 0.000 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-62

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081216-1 06/12/24 21:07 • (LCSD) R4081216-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.0984 | 0.101 | 78.7 | 80.8 | 64.0-132 | | | 2.61 | 20 |
| Bromomethane | 0.125 | 0.170 | 0.160 | 136 | 128 | 56.0-147 | | | 6.06 | 20 |
| n-Butylbenzene | 0.125 | 0.141 | 0.133 | 113 | 106 | 68.0-135 | | | 5.84 | 20 |
| sec-Butylbenzene | 0.125 | 0.142 | 0.136 | 114 | 109 | 74.0-130 | | | 4.32 | 20 |
| tert-Butylbenzene | 0.125 | 0.141 | 0.132 | 113 | 106 | 75.0-127 | | | 6.59 | 20 |
| Carbon tetrachloride | 0.125 | 0.115 | 0.109 | 92.0 | 87.2 | 66.0-128 | | | 5.36 | 20 |
| Chlorobenzene | 0.125 | 0.128 | 0.123 | 102 | 98.4 | 76.0-128 | | | 3.98 | 20 |
| Chlorodibromomethane | 0.125 | 0.111 | 0.115 | 88.8 | 92.0 | 74.0-127 | | | 3.54 | 20 |
| Chloroethane | 0.125 | 0.152 | 0.147 | 122 | 118 | 61.0-134 | | | 3.34 | 20 |
| Chloroform | 0.125 | 0.114 | 0.107 | 91.2 | 85.6 | 72.0-123 | | | 6.33 | 20 |
| Chloromethane | 0.125 | 0.142 | 0.134 | 114 | 107 | 51.0-138 | | | 5.80 | 20 |
| 2-Chlorotoluene | 0.125 | 0.150 | 0.126 | 120 | 101 | 75.0-124 | | | 17.4 | 20 |
| 4-Chlorotoluene | 0.125 | 0.154 | 0.145 | 123 | 116 | 75.0-124 | | | 6.02 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.117 | 0.119 | 93.6 | 95.2 | 59.0-130 | | | 1.69 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.130 | 0.126 | 104 | 101 | 74.0-128 | | | 3.12 | 20 |
| Dibromomethane | 0.125 | 0.113 | 0.116 | 90.4 | 92.8 | 75.0-122 | | | 2.62 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.141 | 0.140 | 113 | 112 | 76.0-124 | | | 0.712 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.151 | 0.146 | 121 | 117 | 76.0-125 | | | 3.37 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.129 | 0.126 | 103 | 101 | 77.0-121 | | | 2.35 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 43.0-156 | | | 3.45 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.115 | 0.107 | 92.0 | 85.6 | 70.0-127 | | | 7.21 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.128 | 0.125 | 102 | 100 | 65.0-131 | | | 2.37 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.122 | 0.115 | 97.6 | 92.0 | 65.0-131 | | | 5.91 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.110 | 0.106 | 88.0 | 84.8 | 73.0-125 | | | 3.70 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.115 | 0.116 | 92.0 | 92.8 | 71.0-125 | | | 0.866 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.116 | 0.111 | 92.8 | 88.8 | 74.0-125 | | | 4.41 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.119 | 0.113 | 95.2 | 90.4 | 73.0-125 | | | 5.17 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.130 | 0.130 | 104 | 104 | 80.0-125 | | | 0.000 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.122 | 0.119 | 97.6 | 95.2 | 76.0-127 | | | 2.49 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.111 | 0.111 | 88.8 | 88.8 | 73.0-127 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.129 | 0.117 | 103 | 93.6 | 59.0-135 | | | 9.76 | 20 |
| Di-isopropyl ether | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 60.0-136 | | | 0.881 | 20 |
| Ethylbenzene | 0.125 | 0.129 | 0.124 | 103 | 99.2 | 74.0-126 | | | 3.95 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.115 | 0.119 | 92.0 | 95.2 | 57.0-150 | | | 3.42 | 20 |
| Isopropylbenzene | 0.125 | 0.132 | 0.129 | 106 | 103 | 72.0-127 | | | 2.30 | 20 |
| p-Isopropyltoluene | 0.125 | 0.144 | 0.139 | 115 | 111 | 72.0-133 | | | 3.53 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.463 | 0.428 | 74.1 | 68.5 | 30.0-160 | | | 7.86 | 24 |
| Methylene Chloride | 0.125 | 0.106 | 0.107 | 84.8 | 85.6 | 68.0-123 | | | 0.939 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.706 | 0.702 | 113 | 112 | 56.0-143 | | | 0.568 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 66.0-132 | | | 0.881 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081216-1 06/12/24 21:07 • (LCSD) R4081216-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.131 | 0.133 | 105 | 106 | 59.0-130 | | | 1.52 | 20 |
| n-Propylbenzene | 0.125 | 0.138 | 0.134 | 110 | 107 | 74.0-126 | | | 2.94 | 20 |
| Styrene | 0.125 | 0.130 | 0.122 | 104 | 97.6 | 72.0-127 | | | 6.35 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 74.0-129 | | | 0.000 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.127 | 0.129 | 102 | 103 | 68.0-128 | | | 1.56 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.113 | 0.103 | 90.4 | 82.4 | 61.0-139 | | | 9.26 | 20 |
| Tetrachloroethene | 0.125 | 0.134 | 0.123 | 107 | 98.4 | 70.0-136 | | | 8.56 | 20 |
| Toluene | 0.125 | 0.133 | 0.128 | 106 | 102 | 75.0-121 | | | 3.83 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.143 | 0.142 | 114 | 114 | 59.0-139 | | | 0.702 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.131 | 0.129 | 105 | 103 | 62.0-137 | | | 1.54 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.118 | 0.113 | 94.4 | 90.4 | 69.0-126 | | | 4.33 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.124 | 0.123 | 99.2 | 98.4 | 78.0-123 | | | 0.810 | 20 |
| Trichloroethene | 0.125 | 0.126 | 0.118 | 101 | 94.4 | 76.0-126 | | | 6.56 | 20 |
| Trichlorofluoromethane | 0.125 | 0.151 | 0.148 | 121 | 118 | 61.0-142 | | | 2.01 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.144 | 0.148 | 115 | 118 | 67.0-129 | | | 2.74 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.144 | 0.135 | 115 | 108 | 70.0-126 | | | 6.45 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.143 | 0.133 | 114 | 106 | 74.0-124 | | | 7.25 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.143 | 0.132 | 114 | 106 | 73.0-127 | | | 8.00 | 20 |
| Vinyl chloride | 0.125 | 0.136 | 0.129 | 109 | 103 | 63.0-134 | | | 5.28 | 20 |
| Xylenes, Total | 0.375 | 0.419 | 0.401 | 112 | 107 | 72.0-127 | | | 4.39 | 20 |
| *(S) Toluene-d8* | | | | *110* | *109* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *99.1* | *97.3* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *114* | *111* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4081104-3 06/12/24 22:16

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4081104-3 06/12/24 22:16

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *89.6* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081104-1 06/12/24 20:38 • (LCSD) R4081104-2 06/12/24 20:58

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.551 | 0.805 | 88.2 | 129 | 10.0-160 | | J3 | 37.5 | 31 |
| Acrylonitrile | 0.625 | 0.617 | 0.757 | 98.7 | 121 | 45.0-153 | | | 20.4 | 22 |
| Benzene | 0.125 | 0.113 | 0.120 | 90.4 | 96.0 | 70.0-123 | | | 6.01 | 20 |
| Bromobenzene | 0.125 | 0.121 | 0.108 | 96.8 | 86.4 | 73.0-121 | | | 11.4 | 20 |
| Bromodichloromethane | 0.125 | 0.114 | 0.119 | 91.2 | 95.2 | 73.0-121 | | | 4.29 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081104-1 06/12/24 20:38 • (LCSD) R4081104-2 06/12/24 20:58

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.124 | 0.129 | 99.2 | 103 | 64.0-132 | | | 3.95 | 20 |
| Bromomethane | 0.125 | 0.0981 | 0.0916 | 78.5 | 73.3 | 56.0-147 | | | 6.85 | 20 |
| n-Butylbenzene | 0.125 | 0.124 | 0.133 | 99.2 | 106 | 68.0-135 | | | 7.00 | 20 |
| sec-Butylbenzene | 0.125 | 0.113 | 0.113 | 90.4 | 90.4 | 74.0-130 | | | 0.000 | 20 |
| tert-Butylbenzene | 0.125 | 0.116 | 0.110 | 92.8 | 88.0 | 75.0-127 | | | 5.31 | 20 |
| Carbon tetrachloride | 0.125 | 0.136 | 0.140 | 109 | 112 | 66.0-128 | | | 2.90 | 20 |
| Chlorobenzene | 0.125 | 0.127 | 0.131 | 102 | 105 | 76.0-128 | | | 3.10 | 20 |
| Chlorodibromomethane | 0.125 | 0.129 | 0.135 | 103 | 108 | 74.0-127 | | | 4.55 | 20 |
| Chloroethane | 0.125 | 0.113 | 0.113 | 90.4 | 90.4 | 61.0-134 | | | 0.000 | 20 |
| Chloroform | 0.125 | 0.119 | 0.123 | 95.2 | 98.4 | 72.0-123 | | | 3.31 | 20 |
| Chloromethane | 0.125 | 0.132 | 0.137 | 106 | 110 | 51.0-138 | | | 3.72 | 20 |
| 2-Chlorotoluene | 0.125 | 0.114 | 0.113 | 91.2 | 90.4 | 75.0-124 | | | 0.881 | 20 |
| 4-Chlorotoluene | 0.125 | 0.104 | 0.102 | 83.2 | 81.6 | 75.0-124 | | | 1.94 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0931 | 0.0975 | 74.5 | 78.0 | 59.0-130 | | | 4.62 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.122 | 0.124 | 97.6 | 99.2 | 74.0-128 | | | 1.63 | 20 |
| Dibromomethane | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 75.0-122 | | | 2.45 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.116 | 0.120 | 92.8 | 96.0 | 76.0-124 | | | 3.39 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.124 | 0.120 | 99.2 | 96.0 | 76.0-125 | | | 3.28 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.116 | 0.120 | 92.8 | 96.0 | 77.0-121 | | | 3.39 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.137 | 0.136 | 110 | 109 | 43.0-156 | | | 0.733 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 70.0-127 | | | 1.65 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.112 | 0.121 | 89.6 | 96.8 | 65.0-131 | | | 7.73 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.125 | 0.133 | 100 | 106 | 65.0-131 | | | 6.20 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.125 | 0.131 | 100 | 105 | 73.0-125 | | | 4.69 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.131 | 0.135 | 105 | 108 | 71.0-125 | | | 3.01 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.121 | 0.121 | 96.8 | 96.8 | 74.0-125 | | | 0.000 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.117 | 0.124 | 93.6 | 99.2 | 73.0-125 | | | 5.81 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.118 | 0.116 | 94.4 | 92.8 | 80.0-125 | | | 1.71 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.120 | 0.118 | 96.0 | 94.4 | 76.0-127 | | | 1.68 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 73.0-127 | | | 1.65 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.123 | 0.123 | 98.4 | 98.4 | 59.0-135 | | | 0.000 | 20 |
| Di-isopropyl ether | 0.125 | 0.120 | 0.126 | 96.0 | 101 | 60.0-136 | | | 4.88 | 20 |
| Ethylbenzene | 0.125 | 0.128 | 0.129 | 102 | 103 | 74.0-126 | | | 0.778 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.123 | 0.136 | 98.4 | 109 | 57.0-150 | | | 10.0 | 20 |
| Isopropylbenzene | 0.125 | 0.127 | 0.133 | 102 | 106 | 72.0-127 | | | 4.62 | 20 |
| p-Isopropyltoluene | 0.125 | 0.114 | 0.118 | 91.2 | 94.4 | 72.0-133 | | | 3.45 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.707 | 0.805 | 113 | 129 | 30.0-160 | | | 13.0 | 24 |
| Methylene Chloride | 0.125 | 0.120 | 0.130 | 96.0 | 104 | 68.0-123 | | | 8.00 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.609 | 0.620 | 97.4 | 99.2 | 56.0-143 | | | 1.79 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.115 | 0.124 | 92.0 | 99.2 | 66.0-132 | | | 7.53 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081104-1 06/12/24 20:38 • (LCSD) R4081104-2 06/12/24 20:58

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0898 | 0.114 | 71.8 | 91.2 | 59.0-130 | | J3 | 23.7 | 20 |
| n-Propylbenzene | 0.125 | 0.104 | 0.103 | 83.2 | 82.4 | 74.0-126 | | | 0.966 | 20 |
| Styrene | 0.125 | 0.122 | 0.134 | 97.6 | 107 | 72.0-127 | | | 9.38 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.132 | 0.142 | 106 | 114 | 74.0-129 | | | 7.30 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.0891 | 0.0861 | 71.3 | 68.9 | 68.0-128 | | | 3.42 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.128 | 0.125 | 102 | 100 | 61.0-139 | | | 2.37 | 20 |
| Tetrachloroethene | 0.125 | 0.156 | 0.155 | 125 | 124 | 70.0-136 | | | 0.643 | 20 |
| Toluene | 0.125 | 0.119 | 0.121 | 95.2 | 96.8 | 75.0-121 | | | 1.67 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.105 | 0.126 | 84.0 | 101 | 59.0-139 | | | 18.2 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.109 | 0.134 | 87.2 | 107 | 62.0-137 | | J3 | 20.6 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.134 | 0.137 | 107 | 110 | 69.0-126 | | | 2.21 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.124 | 0.122 | 99.2 | 97.6 | 78.0-123 | | | 1.63 | 20 |
| Trichloroethene | 0.125 | 0.126 | 0.134 | 101 | 107 | 76.0-126 | | | 6.15 | 20 |
| Trichlorofluoromethane | 0.125 | 0.135 | 0.146 | 108 | 117 | 61.0-142 | | | 7.83 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.106 | 0.104 | 84.8 | 83.2 | 67.0-129 | | | 1.90 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.107 | 0.113 | 85.6 | 90.4 | 70.0-126 | | | 5.45 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.107 | 0.109 | 85.6 | 87.2 | 74.0-124 | | | 1.85 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.114 | 0.112 | 91.2 | 89.6 | 73.0-127 | | | 1.77 | 20 |
| Vinyl chloride | 0.125 | 0.115 | 0.111 | 92.0 | 88.8 | 63.0-134 | | | 3.54 | 20 |
| Xylenes, Total | 0.375 | 0.374 | 0.391 | 99.7 | 104 | 72.0-127 | | | 4.44 | 20 |
| *(S) Toluene-d8* | | | | *103* | *102* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *108* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *92.8* | *97.4* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4081217-3 06/12/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4081217-3 06/12/24 22:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | 0.00165 | J | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *113* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *96.5* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *104* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081217-1 06/12/24 21:07 • (LCSD) R4081217-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.538 | 0.522 | 86.1 | 83.5 | 10.0-160 | | | 3.02 | 31 |
| Acrylonitrile | 0.625 | 0.652 | 0.617 | 104 | 98.7 | 45.0-153 | | | 5.52 | 22 |
| Benzene | 0.125 | 0.123 | 0.114 | 98.4 | 91.2 | 70.0-123 | | | 7.59 | 20 |
| Bromobenzene | 0.125 | 0.148 | 0.134 | 118 | 107 | 73.0-121 | | | 9.93 | 20 |
| Bromodichloromethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 73.0-121 | | | 0.000 | 20 |

# QUALITY CONTROL SUMMARY

L1741921-59,64,66,71

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081217-1 06/12/24 21:07 • (LCSD) R4081217-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.0984 | 0.101 | 78.7 | 80.8 | 64.0-132 | | | 2.61 | 20 |
| Bromomethane | 0.125 | 0.170 | 0.160 | 136 | 128 | 56.0-147 | | | 6.06 | 20 |
| n-Butylbenzene | 0.125 | 0.141 | 0.133 | 113 | 106 | 68.0-135 | | | 5.84 | 20 |
| sec-Butylbenzene | 0.125 | 0.142 | 0.136 | 114 | 109 | 74.0-130 | | | 4.32 | 20 |
| tert-Butylbenzene | 0.125 | 0.141 | 0.132 | 113 | 106 | 75.0-127 | | | 6.59 | 20 |
| Carbon tetrachloride | 0.125 | 0.115 | 0.109 | 92.0 | 87.2 | 66.0-128 | | | 5.36 | 20 |
| Chlorobenzene | 0.125 | 0.128 | 0.123 | 102 | 98.4 | 76.0-128 | | | 3.98 | 20 |
| Chlorodibromomethane | 0.125 | 0.111 | 0.115 | 88.8 | 92.0 | 74.0-127 | | | 3.54 | 20 |
| Chloroethane | 0.125 | 0.152 | 0.147 | 122 | 118 | 61.0-134 | | | 3.34 | 20 |
| Chloroform | 0.125 | 0.114 | 0.107 | 91.2 | 85.6 | 72.0-123 | | | 6.33 | 20 |
| Chloromethane | 0.125 | 0.142 | 0.134 | 114 | 107 | 51.0-138 | | | 5.80 | 20 |
| 2-Chlorotoluene | 0.125 | 0.150 | 0.126 | 120 | 101 | 75.0-124 | | | 17.4 | 20 |
| 4-Chlorotoluene | 0.125 | 0.154 | 0.145 | 123 | 116 | 75.0-124 | | | 6.02 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.117 | 0.119 | 93.6 | 95.2 | 59.0-130 | | | 1.69 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.130 | 0.126 | 104 | 101 | 74.0-128 | | | 3.12 | 20 |
| Dibromomethane | 0.125 | 0.113 | 0.116 | 90.4 | 92.8 | 75.0-122 | | | 2.62 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.141 | 0.140 | 113 | 112 | 76.0-124 | | | 0.712 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.151 | 0.146 | 121 | 117 | 76.0-125 | | | 3.37 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.129 | 0.126 | 103 | 101 | 77.0-121 | | | 2.35 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.118 | 0.114 | 94.4 | 91.2 | 43.0-156 | | | 3.45 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.115 | 0.107 | 92.0 | 85.6 | 70.0-127 | | | 7.21 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.128 | 0.125 | 102 | 100 | 65.0-131 | | | 2.37 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.122 | 0.115 | 97.6 | 92.0 | 65.0-131 | | | 5.91 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.110 | 0.106 | 88.0 | 84.8 | 73.0-125 | | | 3.70 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.115 | 0.116 | 92.0 | 92.8 | 71.0-125 | | | 0.866 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.116 | 0.111 | 92.8 | 88.8 | 74.0-125 | | | 4.41 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.119 | 0.113 | 95.2 | 90.4 | 73.0-125 | | | 5.17 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.130 | 0.130 | 104 | 104 | 80.0-125 | | | 0.000 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.122 | 0.119 | 97.6 | 95.2 | 76.0-127 | | | 2.49 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.111 | 0.111 | 88.8 | 88.8 | 73.0-127 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.129 | 0.117 | 103 | 93.6 | 59.0-135 | | | 9.76 | 20 |
| Di-isopropyl ether | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 60.0-136 | | | 0.881 | 20 |
| Ethylbenzene | 0.125 | 0.129 | 0.124 | 103 | 99.2 | 74.0-126 | | | 3.95 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.115 | 0.119 | 92.0 | 95.2 | 57.0-150 | | | 3.42 | 20 |
| Isopropylbenzene | 0.125 | 0.132 | 0.129 | 106 | 103 | 72.0-127 | | | 2.30 | 20 |
| p-Isopropyltoluene | 0.125 | 0.144 | 0.139 | 115 | 111 | 72.0-133 | | | 3.53 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.463 | 0.428 | 74.1 | 68.5 | 30.0-160 | | | 7.86 | 24 |
| Methylene Chloride | 0.125 | 0.106 | 0.107 | 84.8 | 85.6 | 68.0-123 | | | 0.939 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.706 | 0.702 | 113 | 112 | 56.0-143 | | | 0.568 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.113 | 0.114 | 90.4 | 91.2 | 66.0-132 | | | 0.881 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4081217-1 06/12/24 21:07 • (LCSD) R4081217-2 06/12/24 21:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.131 | 0.133 | 105 | 106 | 59.0-130 | | | 1.52 | 20 |
| n-Propylbenzene | 0.125 | 0.138 | 0.134 | 110 | 107 | 74.0-126 | | | 2.94 | 20 |
| Styrene | 0.125 | 0.130 | 0.122 | 104 | 97.6 | 72.0-127 | | | 6.35 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.112 | 0.112 | 89.6 | 89.6 | 74.0-129 | | | 0.000 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.127 | 0.129 | 102 | 103 | 68.0-128 | | | 1.56 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.113 | 0.103 | 90.4 | 82.4 | 61.0-139 | | | 9.26 | 20 |
| Tetrachloroethene | 0.125 | 0.134 | 0.123 | 107 | 98.4 | 70.0-136 | | | 8.56 | 20 |
| Toluene | 0.125 | 0.133 | 0.128 | 106 | 102 | 75.0-121 | | | 3.83 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.143 | 0.142 | 114 | 114 | 59.0-139 | | | 0.702 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.131 | 0.129 | 105 | 103 | 62.0-137 | | | 1.54 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.118 | 0.113 | 94.4 | 90.4 | 69.0-126 | | | 4.33 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.124 | 0.123 | 99.2 | 98.4 | 78.0-123 | | | 0.810 | 20 |
| Trichloroethene | 0.125 | 0.126 | 0.118 | 101 | 94.4 | 76.0-126 | | | 6.56 | 20 |
| Trichlorofluoromethane | 0.125 | 0.151 | 0.148 | 121 | 118 | 61.0-142 | | | 2.01 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.144 | 0.148 | 115 | 118 | 67.0-129 | | | 2.74 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.144 | 0.135 | 115 | 108 | 70.0-126 | | | 6.45 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.143 | 0.133 | 114 | 106 | 74.0-124 | | | 7.25 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.143 | 0.132 | 114 | 106 | 73.0-127 | | | 8.00 | 20 |
| Vinyl chloride | 0.125 | 0.136 | 0.129 | 109 | 103 | 63.0-134 | | | 5.28 | 20 |
| Xylenes, Total | 0.375 | 0.419 | 0.401 | 112 | 107 | 72.0-127 | | | 4.39 | 20 |
| *(S) Toluene-d8* | | | | *110* | *109* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *99.1* | *97.3* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *114* | *111* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4076519-1 06/02/24 10:37

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 33.0 | 100 |
| C22-C32 Hydrocarbons | U | | 33.0 | 100 |
| C32-C40 Hydrocarbons | U | | 33.0 | 100 |
| *(S) o-Terphenyl* | *59.5* | | | *52.0-156* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4076519-2 06/02/24 10:58 • (LCSD) R4076519-3 06/02/24 11:19

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 750 | 793 | 803 | 106 | 107 | 50.0-150 | | | 1.25 | 20 |
| C22-C32 Hydrocarbons | 750 | 722 | 733 | 96.3 | 97.7 | 50.0-150 | | | 1.51 | 20 |
| *(S) o-Terphenyl* | | | | *73.5* | *73.5* | *52.0-156* | | | | |

## Method Blank (MB)

(MB) R4080350-1 06/11/24 12:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *103* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4080350-2 06/11/24 12:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 20.0 | 80.0 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.2 | 68.8 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *66.8* | *18.0-148* | |

## L1741921-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-17 06/11/24 13:43 • (MS) R4080350-3 06/11/24 13:58 • (MSD) R4080350-4 06/11/24 14:12

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 33.0 | 22.3 | 37.5 | 42.9 | 45.9 | 61.0 | 1 | 50.0-150 | J6 | | 13.5 | 20 |
| C22-C32 Hydrocarbons | 33.0 | 42.6 | 44.7 | 58.7 | 6.15 | 47.8 | 1 | 50.0-150 | J6 | J3 J6 | 27.2 | 20 |
| *(S) o-Terphenyl* | | | | | *67.5* | *61.1* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4081481-1 06/13/24 10:46

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *100* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4081481-2 06/13/24 11:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 25.6 | 102 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 21.0 | 84.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *89.6* | *18.0-148* | |

## L1741921-65 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-65 06/13/24 12:27 • (MS) R4081481-3 06/13/24 12:42 • (MSD) R4081481-4 06/13/24 12:57

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 31.6 | 2.42 | 34.3 | 34.9 | 101 | 102 | 1 | 50.0-150 | | | 1.90 | 20 |
| C22-C32 Hydrocarbons | 31.6 | 2.72 | 31.8 | 31.1 | 91.8 | 89.4 | 1 | 50.0-150 | | | 2.09 | 20 |
| *(S) o-Terphenyl* | | | | | *77.7* | *72.0* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4081755-1 06/14/24 00:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *80.9* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4081755-4 06/14/24 06:35

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 19.6 | 78.4 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.0 | 68.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *70.0* | *18.0-148* | |

## L1741921-66 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-66 06/14/24 00:34 • (MS) R4081755-2 06/14/24 00:49 • (MSD) R4081755-3 06/14/24 01:03

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 29.5 | U | 24.2 | 21.4 | 82.0 | 72.7 | 1 | 50.0-150 | | | 12.1 | 20 |
| C22-C32 Hydrocarbons | 29.5 | U | 23.8 | 21.0 | 80.8 | 71.0 | 1 | 50.0-150 | | | 12.9 | 20 |
| *(S) o-Terphenyl* | | | | | *72.2* | *65.6* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4081261-1 06/13/24 10:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *65.6* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *65.3* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4081261-2 06/13/24 10:29

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.124 | 74.3 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.120 | 71.9 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *79.9* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *77.5* | *10.0-139* | |

## L1741921-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-13 06/13/24 11:41 • (MS) R4081261-3 06/13/24 11:50 • (MSD) R4081261-4 06/13/24 11:59

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.183 | U | 0.249 | 0.202 | 136 | 110 | 1 | 10.0-160 | | | 20.9 | 37 |
| PCB 1260 | 0.183 | 1.28 | 1.54 | 1.32 | 138 | 18.0 | 1 | 10.0-160 | E | E | 15.4 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *76.3* | *60.8* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *62.5* | *49.5* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4083602-1 06/18/24 22:13

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0236 | 0.0680 |
| PCB 1221 | U | | 0.0236 | 0.0680 |
| PCB 1232 | U | | 0.0236 | 0.0680 |
| PCB 1242 | U | | 0.0236 | 0.0680 |
| PCB 1248 | U | | 0.0148 | 0.0340 |
| PCB 1254 | U | | 0.0148 | 0.0340 |
| PCB 1260 | U | | 0.0148 | 0.0340 |
| *(S) Decachlorobiphenyl* | *125* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *124* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4083602-2 06/18/24 22:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.124 | 74.3 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.124 | 74.3 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *92.0* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *91.0* | *10.0-139* | |

## Method Blank (MB)

(MB) R4088908-1 07/01/24 22:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *80.2* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *94.4* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4088908-2 07/01/24 22:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.0932 | 55.8 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.0835 | 50.0 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *60.7* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *73.6* | *10.0-139* | |

## L1752331-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1752331-04 07/02/24 00:45 • (MS) R4088908-3 07/02/24 00:53 • (MSD) R4088908-4 07/02/24 01:02

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.182 | U | 0.119 | 0.101 | 65.3 | 55.4 | 1 | 10.0-160 | | | 16.4 | 37 |
| PCB 1260 | 0.182 | U | 0.100 | 0.0861 | 55.1 | 47.3 | 1 | 10.0-160 | | | 15.2 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *62.0* | *43.1* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *75.7* | *56.8* | | *10.0-139* | | | | |

# QUALITY CONTROL SUMMARY

L1741921-09,10,13,14,15,18,19

## Method Blank (MB)

(MB) R4079830-2 06/11/24 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

# QUALITY CONTROL SUMMARY

L1741921-09,10,13,14,15,18,19

## Method Blank (MB)

(MB) R4079830-2 06/11/24 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *57.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *50.5* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *51.1* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *57.4* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *33.8* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *57.7* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.478 | 71.8 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.512 | 76.9 | 40.0-120 | |
| Anthracene | 0.666 | 0.501 | 75.2 | 42.0-120 | |
| Benzidine | 1.33 | 0.457 | 34.4 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.529 | 79.4 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.499 | 74.9 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.502 | 75.4 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.447 | 67.1 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.516 | 77.5 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.384 | 57.7 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.528 | 79.3 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.453 | 68.0 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.384 | 57.7 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.464 | 69.7 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.485 | 72.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.527 | 79.1 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.453 | 68.0 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.451 | 67.7 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.422 | 63.4 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.422 | 63.4 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.791 | 59.5 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.558 | 83.8 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.571 | 85.7 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.467 | 70.1 | 44.0-120 | |
| Fluorene | 0.666 | 0.497 | 74.6 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.316 | 47.4 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.391 | 58.7 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.334 | 50.2 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.416 | 62.5 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.427 | 64.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.404 | 60.7 | 23.0-120 | |
| Naphthalene | 0.666 | 0.377 | 56.6 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.379 | 56.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.377 | 56.6 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.450 | 67.6 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.481 | 72.2 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.493 | 74.0 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.643 | 96.5 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.656 | 98.5 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.501 | 75.2 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.540 | 81.1 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.531 | 79.7 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.633 | 95.0 | 40.0-120 | |
| Pyrene | 0.666 | 0.580 | 87.1 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.394 | 59.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.399 | 59.9 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.480 | 72.1 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.404 | 60.7 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.449 | 67.4 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.603 | 90.5 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.490 | 73.6 | 10.0-120 | |

# QUALITY CONTROL SUMMARY

L1741921-09,10,13,14,15,18,19

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.470 | 70.6 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.625 | 93.8 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.353 | 53.0 | 29.0-120 | |
| Phenol | 0.666 | 0.418 | 62.8 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.479 | 71.9 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *72.8* | *12.0-120* | |
| *(S) Phenol-d5* | | | *63.8* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *52.9* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *73.6* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *43.7* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *70.0* | *10.0-120* | |

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.809 | U | 0.414 | 0.396 | 51.2 | 48.6 | 1 | 18.0-120 | | | 4.59 | 32 |
| Acenaphthylene | 0.809 | U | 0.453 | 0.430 | 56.0 | 52.9 | 1 | 25.0-120 | | | 5.06 | 32 |
| Anthracene | 0.809 | U | 0.458 | 0.442 | 56.6 | 54.3 | 1 | 22.0-120 | | | 3.59 | 29 |
| Benzidine | 1.61 | U | 0.165 | 0.159 | 10.2 | 9.77 | 1 | 10.0-120 | J | J J6 | 3.83 | 40 |
| Benzo(a)anthracene | 0.809 | U | 0.474 | 0.445 | 58.6 | 54.7 | 1 | 25.0-120 | | | 6.21 | 29 |
| Benzo(b)fluoranthene | 0.809 | U | 0.452 | 0.419 | 55.8 | 51.5 | 1 | 19.0-122 | | | 7.41 | 31 |
| Benzo(k)fluoranthene | 0.809 | U | 0.447 | 0.423 | 55.2 | 52.0 | 1 | 23.0-120 | | | 5.42 | 30 |
| Benzo(g,h,i)perylene | 0.809 | U | 0.403 | 0.375 | 49.8 | 46.0 | 1 | 10.0-120 | | | 7.34 | 33 |
| Benzo(a)pyrene | 0.809 | U | 0.454 | 0.434 | 56.1 | 53.4 | 1 | 24.0-120 | | | 4.47 | 30 |
| Bis(2-chlorethoxy)methane | 0.809 | U | 0.356 | 0.345 | 44.0 | 42.4 | 1 | 10.0-120 | J | J | 3.19 | 34 |
| Bis(2-chloroethyl)ether | 0.809 | U | 0.489 | 0.459 | 60.4 | 56.4 | 1 | 10.0-120 | | | 6.28 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.809 | U | 0.397 | 0.382 | 49.1 | 47.0 | 1 | 10.0-120 | J | J | 3.82 | 40 |
| 4-Bromophenyl-phenylether | 0.809 | U | 0.349 | 0.344 | 43.1 | 42.2 | 1 | 27.0-120 | J | J | 1.43 | 30 |
| 2-Chloronaphthalene | 0.809 | U | 0.408 | 0.386 | 50.5 | 47.4 | 1 | 20.0-120 | | | 5.63 | 32 |
| 4-Chlorophenyl-phenylether | 0.809 | U | 0.433 | 0.429 | 53.5 | 52.7 | 1 | 24.0-120 | | | 0.863 | 29 |
| Chrysene | 0.809 | U | 0.480 | 0.449 | 59.4 | 55.2 | 1 | 21.0-120 | | | 6.68 | 29 |
| Dibenz(a,h)anthracene | 0.809 | U | 0.396 | 0.373 | 48.9 | 45.9 | 1 | 10.0-120 | | | 5.81 | 32 |
| 1,2-Dichlorobenzene | 0.809 | U | 0.414 | 0.397 | 51.2 | 48.8 | 1 | 10.0-120 | | J | 4.28 | 38 |
| 1,3-Dichlorobenzene | 0.809 | U | 0.388 | 0.375 | 48.0 | 46.0 | 1 | 10.0-120 | J | J | 3.58 | 40 |
| 1,4-Dichlorobenzene | 0.809 | U | 0.398 | 0.378 | 49.2 | 46.5 | 1 | 10.0-120 | J | J | 5.11 | 39 |
| 3,3-Dichlorobenzidine | 1.61 | U | 0.579 | 0.504 | 35.9 | 31.0 | 1 | 10.0-120 | | | 14.0 | 34 |
| 2,4-Dinitrotoluene | 0.809 | U | 0.501 | 0.481 | 62.0 | 59.1 | 1 | 30.0-120 | | | 4.04 | 31 |

# WG2301591

# QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L1741921-09,10,13,14,15,18,19

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.809 | U | 0.515 | 0.486 | 63.7 | 59.8 | 1 | 25.0-120 | | | 5.70 | 31 |
| Fluoranthene | 0.809 | U | 0.425 | 0.413 | 52.6 | 50.8 | 1 | 18.0-126 | | | 2.96 | 32 |
| Fluorene | 0.809 | U | 0.453 | 0.428 | 56.0 | 52.6 | 1 | 25.0-120 | | | 5.63 | 30 |
| Hexachlorobenzene | 0.809 | U | 0.290 | 0.280 | 35.9 | 34.5 | 1 | 27.0-120 | J | J | 3.48 | 28 |
| Hexachloro-1,3-butadiene | 0.809 | U | 0.367 | 0.354 | 45.4 | 43.4 | 1 | 10.0-120 | J | J | 3.79 | 38 |
| Hexachlorocyclopentadiene | 0.809 | U | 0.284 | 0.258 | 35.1 | 31.7 | 1 | 10.0-120 | J | J | 9.61 | 40 |
| Hexachloroethane | 0.809 | U | 0.376 | 0.363 | 46.5 | 44.7 | 1 | 10.0-120 | J | J | 3.36 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.809 | U | 0.382 | 0.362 | 47.2 | 44.5 | 1 | 10.0-120 | | | 5.33 | 32 |
| Isophorone | 0.809 | U | 0.377 | 0.368 | 46.6 | 45.3 | 1 | 13.0-120 | J | J | 2.33 | 34 |
| Naphthalene | 0.809 | U | 0.358 | 0.345 | 44.3 | 42.4 | 1 | 10.0-120 | | | 3.88 | 35 |
| Nitrobenzene | 0.809 | U | 0.358 | 0.347 | 44.3 | 42.7 | 1 | 10.0-120 | J | J | 3.16 | 36 |
| n-Nitrosodimethylamine | 0.809 | U | 0.376 | 0.342 | 46.5 | 42.1 | 1 | 10.0-127 | J | J | 9.33 | 40 |
| n-Nitrosodiphenylamine | 0.809 | U | 0.360 | 0.342 | 44.5 | 42.1 | 1 | 17.0-120 | J | J | 4.95 | 29 |
| n-Nitrosodi-n-propylamine | 0.809 | U | 0.439 | 0.423 | 54.3 | 52.0 | 1 | 10.0-120 | | | 3.74 | 37 |
| Phenanthrene | 0.809 | U | 0.443 | 0.438 | 54.8 | 53.8 | 1 | 17.0-120 | | | 1.13 | 31 |
| Benzylbutyl phthalate | 0.809 | U | 0.604 | 0.561 | 74.7 | 68.9 | 1 | 23.0-120 | | | 7.45 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.809 | U | 0.594 | 0.561 | 73.5 | 68.9 | 1 | 17.0-126 | | | 5.80 | 30 |
| Di-n-butyl phthalate | 0.809 | U | 0.452 | 0.440 | 55.8 | 54.1 | 1 | 30.0-120 | | | 2.50 | 29 |
| Diethyl phthalate | 0.809 | U | 0.483 | 0.466 | 59.7 | 57.3 | 1 | 26.0-120 | | | 3.40 | 28 |
| Dimethyl phthalate | 0.809 | U | 0.464 | 0.450 | 57.4 | 55.3 | 1 | 25.0-120 | | | 2.99 | 29 |
| Di-n-octyl phthalate | 0.809 | U | 0.595 | 0.552 | 73.6 | 67.8 | 1 | 21.0-123 | | | 7.57 | 29 |
| Pyrene | 0.809 | U | 0.516 | 0.492 | 63.8 | 60.5 | 1 | 16.0-121 | | | 4.67 | 32 |
| 1,2,4-Trichlorobenzene | 0.809 | U | 0.366 | 0.356 | 45.2 | 43.8 | 1 | 12.0-120 | J | J | 2.75 | 37 |
| 4-Chloro-3-methylphenol | 0.809 | U | 0.371 | 0.355 | 45.9 | 43.6 | 1 | 15.0-120 | J | J | 4.44 | 30 |
| 2-Chlorophenol | 0.809 | U | 0.434 | 0.407 | 53.7 | 50.0 | 1 | 15.0-120 | | J | 6.49 | 37 |
| 2,4-Dichlorophenol | 0.809 | U | 0.371 | 0.371 | 45.9 | 45.6 | 1 | 20.0-120 | J | J | 0.000 | 31 |
| 2,4-Dimethylphenol | 0.809 | U | 0.357 | 0.357 | 44.2 | 43.9 | 1 | 10.0-120 | J | J | 0.000 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.809 | U | 0.708 | 0.685 | 87.6 | 84.1 | 1 | 10.0-120 | | | 3.38 | 39 |
| 2,4-Dinitrophenol | 0.809 | U | 0.781 | 0.750 | 96.6 | 92.2 | 1 | 10.0-121 | | | 4.05 | 40 |
| 2-Nitrophenol | 0.809 | U | 0.455 | 0.434 | 56.3 | 53.4 | 1 | 12.0-120 | | | 4.74 | 39 |
| 4-Nitrophenol | 0.809 | U | 0.628 | 0.567 | 77.6 | 69.7 | 1 | 10.0-137 | | | 10.2 | 32 |
| Pentachlorophenol | 0.809 | U | 0.404 | 0.391 | 50.0 | 48.0 | 1 | 10.0-160 | J | J | 3.43 | 31 |
| Phenol | 0.809 | U | 0.373 | 0.370 | 46.2 | 45.4 | 1 | 12.0-120 | J | J | 1.00 | 38 |
| 2,4,6-Trichlorophenol | 0.809 | U | 0.425 | 0.438 | 52.6 | 53.8 | 1 | 19.0-120 | | | 2.87 | 32 |
| *(S) 2-Fluorophenol* | | | | | *54.4* | *51.1* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *46.0* | *45.1* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *41.7* | *40.2* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *51.5* | *48.2* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *33.3* | *32.6* | | *10.0-127* | | | | |

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *51.2* | *47.6* | | *10.0-120* | | | | |

## Method Blank (MB)

(MB) R4080581-2 06/11/24 23:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4080581-2 06/11/24 23:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *82.1* | | | *12.0-120* |
| *(S) Phenol-d5* | *79.0* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *77.2* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *73.9* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *65.5* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *76.3* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4080581-1 06/11/24 22:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.560 | 84.1 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.548 | 82.3 | 40.0-120 | |
| Anthracene | 0.666 | 0.557 | 83.6 | 42.0-120 | |
| Benzidine | 1.33 | 0.683 | 51.4 | 10.0-120 | J |
| Benzo(a)anthracene | 0.666 | 0.616 | 92.5 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.599 | 89.9 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.583 | 87.5 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.580 | 87.1 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.606 | 91.0 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.481 | 72.2 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 1.13 | 170 | 16.0-120 | J4 |

## Laboratory Control Sample (LCS)

(LCS) R4080581-1 06/11/24 22:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.494 | 74.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.570 | 85.6 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.501 | 75.2 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.629 | 94.4 | 40.0-120 | |
| Chrysene | 0.666 | 0.598 | 89.8 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.582 | 87.4 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.513 | 77.0 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.494 | 74.2 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.501 | 75.2 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.25 | 94.0 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.683 | 103 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.635 | 95.3 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.614 | 92.2 | 44.0-120 | |
| Fluorene | 0.666 | 0.600 | 90.1 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.540 | 81.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.541 | 81.2 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.365 | 54.8 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.499 | 74.9 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.571 | 85.7 | 45.0-120 | |
| Isophorone | 0.666 | 0.500 | 75.1 | 23.0-120 | |
| Naphthalene | 0.666 | 0.443 | 66.5 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.498 | 74.8 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.349 | 52.4 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.507 | 76.1 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.537 | 80.6 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.547 | 82.1 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.677 | 102 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.669 | 100 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.571 | 85.7 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.605 | 90.8 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.588 | 88.3 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.700 | 105 | 40.0-120 | |
| Pyrene | 0.666 | 0.637 | 95.6 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.494 | 74.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.537 | 80.6 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.562 | 84.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.527 | 79.1 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.605 | 90.8 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.631 | 94.7 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.545 | 81.8 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4080581-1 06/11/24 22:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.522 | 78.4 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.506 | 76.0 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.406 | 61.0 | 29.0-120 | |
| Phenol | 0.666 | 0.578 | 86.8 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.546 | 82.0 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *93.5* | *12.0-120* | |
| *(S) Phenol-d5* | | | *90.7* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *71.2* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *83.5* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *82.1* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *92.2* | *10.0-120* | |

## L1744090-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1744090-06 06/11/24 23:45 • (MS) R4080581-3 06/12/24 00:05 • (MSD) R4080581-4 06/12/24 00:25

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.723 | U | 0.479 | 0.444 | 66.2 | 61.5 | 1 | 18.0-120 | | | 7.64 | 32 |
| Acenaphthylene | 0.723 | U | 0.487 | 0.433 | 67.3 | 60.1 | 1 | 25.0-120 | | | 11.6 | 32 |
| Anthracene | 0.723 | U | 0.505 | 0.438 | 69.8 | 60.7 | 1 | 22.0-120 | | | 14.2 | 29 |
| Benzidine | 1.44 | U | 0.232 | 0.373 | 16.1 | 25.8 | 1 | 10.0-120 | J | J J3 | 46.6 | 40 |
| Benzo(a)anthracene | 0.723 | U | 0.541 | 0.458 | 74.8 | 63.6 | 1 | 25.0-120 | | | 16.6 | 29 |
| Benzo(b)fluoranthene | 0.723 | U | 0.528 | 0.450 | 73.0 | 62.5 | 1 | 19.0-122 | | | 15.8 | 31 |
| Benzo(k)fluoranthene | 0.723 | U | 0.520 | 0.442 | 71.9 | 61.4 | 1 | 23.0-120 | | | 16.1 | 30 |
| Benzo(g,h,i)perylene | 0.723 | U | 0.519 | 0.450 | 71.7 | 62.5 | 1 | 10.0-120 | | | 14.1 | 33 |
| Benzo(a)pyrene | 0.723 | U | 0.539 | 0.465 | 74.5 | 64.5 | 1 | 24.0-120 | | | 14.7 | 30 |
| Bis(2-chlorethoxy)methane | 0.723 | U | 0.429 | 0.380 | 59.3 | 52.7 | 1 | 10.0-120 | | | 12.1 | 34 |
| Bis(2-chloroethyl)ether | 0.723 | U | 0.570 | 0.354 | 78.8 | 49.1 | 1 | 10.0-120 | | J J3 | 46.8 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.723 | U | 0.415 | 0.375 | 57.4 | 52.1 | 1 | 10.0-120 | | J | 10.1 | 40 |
| 4-Bromophenyl-phenylether | 0.723 | U | 0.504 | 0.449 | 69.7 | 62.3 | 1 | 27.0-120 | | | 11.5 | 30 |
| 2-Chloronaphthalene | 0.723 | U | 0.441 | 0.399 | 61.0 | 55.4 | 1 | 20.0-120 | | | 10.0 | 32 |
| 4-Chlorophenyl-phenylether | 0.723 | U | 0.560 | 0.488 | 77.4 | 67.7 | 1 | 24.0-120 | | | 13.7 | 29 |
| Chrysene | 0.723 | U | 0.527 | 0.440 | 72.8 | 61.0 | 1 | 21.0-120 | | | 17.9 | 29 |
| Dibenz(a,h)anthracene | 0.723 | U | 0.528 | 0.458 | 73.0 | 63.6 | 1 | 10.0-120 | | | 14.1 | 32 |
| 1,2-Dichlorobenzene | 0.723 | U | 0.431 | 0.386 | 59.6 | 53.5 | 1 | 10.0-120 | | | 11.1 | 38 |
| 1,3-Dichlorobenzene | 0.723 | U | 0.415 | 0.375 | 57.4 | 52.1 | 1 | 10.0-120 | | J | 10.1 | 40 |
| 1,4-Dichlorobenzene | 0.723 | U | 0.432 | 0.372 | 59.7 | 51.6 | 1 | 10.0-120 | | J | 15.0 | 39 |
| 3,3-Dichlorobenzidine | 1.44 | U | 1.10 | 0.914 | 76.4 | 63.3 | 1 | 10.0-120 | | | 18.7 | 34 |
| 2,4-Dinitrotoluene | 0.723 | U | 0.590 | 0.520 | 81.6 | 72.1 | 1 | 30.0-120 | | | 12.7 | 31 |

# QUALITY CONTROL SUMMARY

L1741921-01,02,03,08,20,25,26,27,31,32

## L1744090-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1744090-06 06/11/24 23:45 • (MS) R4080581-3 06/12/24 00:05 • (MSD) R4080581-4 06/12/24 00:25

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.723 | U | 0.560 | 0.517 | 77.4 | 71.8 | 1 | 25.0-120 | | | 7.81 | 31 |
| Fluoranthene | 0.723 | U | 0.560 | 0.472 | 77.4 | 65.5 | 1 | 18.0-126 | | | 17.0 | 32 |
| Fluorene | 0.723 | U | 0.516 | 0.476 | 71.4 | 66.1 | 1 | 25.0-120 | | | 8.02 | 30 |
| Hexachlorobenzene | 0.723 | U | 0.487 | 0.434 | 67.3 | 60.3 | 1 | 27.0-120 | | | 11.4 | 28 |
| Hexachloro-1,3-butadiene | 0.723 | U | 0.480 | 0.434 | 66.4 | 60.3 | 1 | 10.0-120 | | | 9.95 | 38 |
| Hexachlorocyclopentadiene | 0.723 | U | 0.210 | 0.235 | 29.1 | 32.6 | 1 | 10.0-120 | J | J | 11.2 | 40 |
| Hexachloroethane | 0.723 | U | 0.458 | 0.380 | 63.4 | 52.7 | 1 | 10.0-120 | | | 18.7 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.723 | U | 0.517 | 0.457 | 71.5 | 63.4 | 1 | 10.0-120 | | | 12.4 | 32 |
| Isophorone | 0.723 | U | 0.457 | 0.409 | 63.2 | 56.8 | 1 | 13.0-120 | | | 11.0 | 34 |
| Naphthalene | 0.723 | U | 0.411 | 0.363 | 56.8 | 50.3 | 1 | 10.0-120 | | | 12.4 | 35 |
| Nitrobenzene | 0.723 | U | 0.444 | 0.409 | 61.3 | 56.8 | 1 | 10.0-120 | | | 8.00 | 36 |
| n-Nitrosodimethylamine | 0.723 | U | 0.298 | 0.247 | 41.2 | 34.2 | 1 | 10.0-127 | J | J | 18.8 | 40 |
| n-Nitrosodiphenylamine | 0.723 | U | 0.475 | 0.414 | 65.7 | 57.4 | 1 | 17.0-120 | | | 13.8 | 29 |
| n-Nitrosodi-n-propylamine | 0.723 | U | 0.464 | 0.415 | 64.2 | 57.6 | 1 | 10.0-120 | | | 11.1 | 37 |
| Phenanthrene | 0.723 | U | 0.497 | 0.428 | 68.7 | 59.3 | 1 | 17.0-120 | | | 15.0 | 31 |
| Benzylbutyl phthalate | 0.723 | U | 0.610 | 0.506 | 84.3 | 70.2 | 1 | 23.0-120 | | | 18.6 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.723 | U | 0.600 | 0.515 | 83.0 | 71.5 | 1 | 17.0-126 | | | 15.3 | 30 |
| Di-n-butyl phthalate | 0.723 | U | 0.514 | 0.444 | 71.1 | 61.5 | 1 | 30.0-120 | | | 14.7 | 29 |
| Diethyl phthalate | 0.723 | U | 0.537 | 0.474 | 74.2 | 65.8 | 1 | 26.0-120 | | | 12.4 | 28 |
| Dimethyl phthalate | 0.723 | U | 0.506 | 0.461 | 70.0 | 63.9 | 1 | 25.0-120 | | | 9.41 | 29 |
| Di-n-octyl phthalate | 0.723 | U | 0.621 | 0.511 | 85.8 | 70.8 | 1 | 21.0-123 | | | 19.5 | 29 |
| Pyrene | 0.723 | U | 0.552 | 0.473 | 76.3 | 65.6 | 1 | 16.0-121 | | | 15.3 | 32 |
| 1,2,4-Trichlorobenzene | 0.723 | U | 0.440 | 0.411 | 60.8 | 56.9 | 1 | 12.0-120 | | | 6.95 | 37 |
| 4-Chloro-3-methylphenol | 0.723 | U | 0.507 | 0.433 | 70.1 | 60.1 | 1 | 15.0-120 | | | 15.7 | 30 |
| 2-Chlorophenol | 0.723 | U | 0.498 | 0.430 | 68.9 | 59.6 | 1 | 15.0-120 | | | 14.7 | 37 |
| 2,4-Dichlorophenol | 0.723 | U | 0.478 | 0.424 | 66.0 | 58.8 | 1 | 20.0-120 | | | 11.9 | 31 |
| 2,4-Dimethylphenol | 0.723 | U | 0.554 | 0.494 | 76.6 | 68.5 | 1 | 10.0-120 | | | 11.5 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.723 | U | 0.553 | 0.522 | 76.4 | 72.4 | 1 | 10.0-120 | | | 5.71 | 39 |
| 2,4-Dinitrophenol | 0.723 | U | 0.515 | 0.530 | 71.2 | 73.5 | 1 | 10.0-121 | | | 2.83 | 40 |
| 2-Nitrophenol | 0.723 | U | 0.490 | 0.451 | 67.8 | 62.6 | 1 | 12.0-120 | | | 8.21 | 39 |
| 4-Nitrophenol | 0.723 | U | 0.482 | 0.425 | 66.7 | 59.0 | 1 | 10.0-137 | | | 12.5 | 32 |
| Pentachlorophenol | 0.723 | U | 0.497 | 0.405 | 68.7 | 56.2 | 1 | 10.0-160 | | | 20.4 | 31 |
| Phenol | 0.723 | U | 0.483 | 0.428 | 66.8 | 59.3 | 1 | 12.0-120 | | | 12.2 | 38 |
| 2,4,6-Trichlorophenol | 0.723 | U | 0.498 | 0.463 | 68.9 | 64.2 | 1 | 19.0-120 | | | 7.34 | 32 |
| *(S) 2-Fluorophenol* | | | | | *78.6* | *68.6* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *73.3* | *63.9* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *61.6* | *55.2* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *66.4* | *64.7* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *70.9* | *62.8* | | *10.0-127* | | | | |

## L1744090-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1744090-06 06/11/24 23:45 • (MS) R4080581-3 06/12/24 00:05 • (MSD) R4080581-4 06/12/24 00:25

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *76.1* | *63.4* | | *10.0-120* | | | | |

## Method Blank (MB)

(MB) R4081754-2 06/13/24 19:00

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4081754-2 06/13/24 19:00

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *74.2* | | | *12.0-120* |
| *(S) Phenol-d5* | *70.0* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *55.9* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *68.2* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *60.4* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *77.5* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4081754-1 06/13/24 18:35

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.406 | 61.0 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.448 | 67.3 | 40.0-120 | |
| Anthracene | 0.666 | 0.447 | 67.1 | 42.0-120 | |
| Benzidine | 1.33 | 0.471 | 35.4 | 10.0-120 | J |
| Benzo(a)anthracene | 0.666 | 0.471 | 70.7 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.421 | 63.2 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.414 | 62.2 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.471 | 70.7 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.444 | 66.7 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.307 | 46.1 | 20.0-120 | J |
| Bis(2-chloroethyl)ether | 0.666 | 0.440 | 66.1 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4081754-1 06/13/24 18:35

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.371 | 55.7 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.454 | 68.2 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.383 | 57.5 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.443 | 66.5 | 40.0-120 | |
| Chrysene | 0.666 | 0.435 | 65.3 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.490 | 73.6 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.369 | 55.4 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.372 | 55.9 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.390 | 58.6 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.810 | 60.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.454 | 68.2 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.466 | 70.0 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.452 | 67.9 | 44.0-120 | |
| Fluorene | 0.666 | 0.418 | 62.8 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.412 | 61.9 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.316 | 47.4 | 15.0-120 | J |
| Hexachlorocyclopentadiene | 0.666 | 0.298 | 44.7 | 15.0-120 | J |
| Hexachloroethane | 0.666 | 0.365 | 54.8 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.528 | 79.3 | 45.0-120 | |
| Isophorone | 0.666 | 0.321 | 48.2 | 23.0-120 | J |
| Naphthalene | 0.666 | 0.321 | 48.2 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.304 | 45.6 | 17.0-120 | J |
| n-Nitrosodimethylamine | 0.666 | 0.306 | 45.9 | 10.0-125 | J |
| n-Nitrosodiphenylamine | 0.666 | 0.411 | 61.7 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.373 | 56.0 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.429 | 64.4 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.475 | 71.3 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.473 | 71.0 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.436 | 65.5 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.471 | 70.7 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.435 | 65.3 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.470 | 70.6 | 40.0-120 | |
| Pyrene | 0.666 | 0.460 | 69.1 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.333 | 50.0 | 17.0-120 | J |
| 4-Chloro-3-methylphenol | 0.666 | 0.352 | 52.9 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.409 | 61.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.354 | 53.2 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.317 | 47.6 | 15.0-120 | J |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.538 | 80.8 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.423 | 63.5 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4081754-1 06/13/24 18:35

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.371 | 55.7 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.459 | 68.9 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.308 | 46.2 | 29.0-120 | J |
| Phenol | 0.666 | 0.395 | 59.3 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.435 | 65.3 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *69.5* | *12.0-120* | |
| *(S) Phenol-d5* | | | *64.9* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *44.1* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *62.2* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *63.8* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *71.5* | *10.0-120* | |

## L1741921-63 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-63 06/14/24 01:07 • (MS) R4081754-3 06/14/24 01:32 • (MSD) R4081754-4 06/14/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.850 | U | 0.457 | 0.410 | 53.8 | 48.4 | 2 | 18.0-120 | | | 10.7 | 32 |
| Acenaphthylene | 0.850 | U | 0.495 | 0.461 | 58.3 | 54.4 | 2 | 25.0-120 | | | 7.22 | 32 |
| Anthracene | 0.850 | U | 0.542 | 0.535 | 63.8 | 63.2 | 2 | 22.0-120 | | | 1.23 | 29 |
| Benzidine | 1.70 | U | U | 0.262 | 0.000 | 15.4 | 2 | 10.0-120 | J6 | J J3 | 200 | 40 |
| Benzo(a)anthracene | 0.850 | U | 0.600 | 0.596 | 70.6 | 70.4 | 2 | 25.0-120 | | | 0.666 | 29 |
| Benzo(b)fluoranthene | 0.850 | U | 0.536 | 0.526 | 63.1 | 62.1 | 2 | 19.0-122 | | | 2.00 | 31 |
| Benzo(k)fluoranthene | 0.850 | U | 0.518 | 0.507 | 60.9 | 59.9 | 2 | 23.0-120 | | | 2.07 | 30 |
| Benzo(g,h,i)perylene | 0.850 | U | 0.551 | 0.542 | 64.8 | 63.9 | 2 | 10.0-120 | | | 1.70 | 33 |
| Benzo(a)pyrene | 0.850 | U | 0.564 | 0.556 | 66.4 | 65.7 | 2 | 24.0-120 | | | 1.42 | 30 |
| Bis(2-chlorethoxy)methane | 0.850 | U | 0.382 | 0.369 | 45.0 | 43.6 | 2 | 10.0-120 | J | J | 3.53 | 34 |
| Bis(2-chloroethyl)ether | 0.850 | U | 0.475 | 0.454 | 55.9 | 53.6 | 2 | 10.0-120 | J | J | 4.57 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.850 | U | 0.393 | 0.378 | 46.3 | 44.7 | 2 | 10.0-120 | J | J | 3.79 | 40 |
| 4-Bromophenyl-phenylether | 0.850 | U | 0.520 | 0.494 | 61.3 | 58.3 | 2 | 27.0-120 | J | J | 5.24 | 30 |
| 2-Chloronaphthalene | 0.850 | U | 0.423 | 0.394 | 49.8 | 46.6 | 2 | 20.0-120 | | | 7.14 | 32 |
| 4-Chlorophenyl-phenylether | 0.850 | U | 0.504 | 0.457 | 59.4 | 53.9 | 2 | 24.0-120 | J | J | 9.94 | 29 |
| Chrysene | 0.850 | U | 0.560 | 0.552 | 65.9 | 65.2 | 2 | 21.0-120 | | | 1.43 | 29 |
| Dibenz(a,h)anthracene | 0.850 | U | 0.599 | 0.581 | 70.5 | 68.7 | 2 | 10.0-120 | | | 2.92 | 32 |
| 1,2-Dichlorobenzene | 0.850 | U | 0.377 | 0.358 | 44.4 | 42.3 | 2 | 10.0-120 | J | J | 5.05 | 38 |
| 1,3-Dichlorobenzene | 0.850 | U | 0.369 | 0.344 | 43.4 | 40.6 | 2 | 10.0-120 | J | J | 7.08 | 40 |
| 1,4-Dichlorobenzene | 0.850 | U | 0.394 | 0.374 | 46.4 | 44.2 | 2 | 10.0-120 | J | J | 5.18 | 39 |
| 3,3-Dichlorobenzidine | 1.70 | U | 0.948 | 1.03 | 55.8 | 60.8 | 2 | 10.0-120 | | | 8.58 | 34 |
| 2,4-Dinitrotoluene | 0.850 | U | 0.542 | 0.504 | 63.8 | 59.6 | 2 | 30.0-120 | J | J | 7.11 | 31 |

# WG2303251

## QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C L1741921-33,36,37,38,43,44,45,48,49,50,56,57,58,61,62,63,68,69,70

### L1741921-63 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-63 06/14/24 01:07 • (MS) R4081754-3 06/14/24 01:32 • (MSD) R4081754-4 06/14/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.850 | U | 0.528 | 0.481 | 62.2 | 56.7 | 2 | 25.0-120 | J | J | 9.47 | 31 |
| Fluoranthene | 0.850 | U | 0.584 | 0.583 | 68.8 | 68.8 | 2 | 18.0-126 | | | 0.228 | 32 |
| Fluorene | 0.850 | U | 0.477 | 0.442 | 56.1 | 52.2 | 2 | 25.0-120 | | | 7.51 | 30 |
| Hexachlorobenzene | 0.850 | U | 0.485 | 0.463 | 57.0 | 54.7 | 2 | 27.0-120 | J | J | 4.48 | 28 |
| Hexachloro-1,3-butadiene | 0.850 | U | 0.377 | 0.349 | 44.4 | 41.2 | 2 | 10.0-120 | J | J | 7.68 | 38 |
| Hexachlorocyclopentadiene | 0.850 | U | 0.104 | 0.0997 | 12.2 | 11.8 | 2 | 10.0-120 | J | J | 3.79 | 40 |
| Hexachloroethane | 0.850 | U | 0.364 | 0.321 | 42.8 | 37.9 | 2 | 10.0-120 | J | J | 12.4 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.850 | U | 0.657 | 0.641 | 77.3 | 75.7 | 2 | 10.0-120 | | | 2.45 | 32 |
| Isophorone | 0.850 | U | 0.389 | 0.377 | 45.8 | 44.5 | 2 | 13.0-120 | J | J | 3.12 | 34 |
| Naphthalene | 0.850 | U | 0.386 | 0.372 | 45.5 | 43.9 | 2 | 10.0-120 | | | 3.85 | 35 |
| Nitrobenzene | 0.850 | U | 0.357 | 0.360 | 42.0 | 42.5 | 2 | 10.0-120 | J | J | 0.741 | 36 |
| n-Nitrosodimethylamine | 0.850 | U | 0.289 | 0.293 | 34.1 | 34.6 | 2 | 10.0-127 | J | J | 1.37 | 40 |
| n-Nitrosodiphenylamine | 0.850 | U | 0.467 | 0.467 | 55.0 | 55.2 | 2 | 17.0-120 | J | J | 0.000 | 29 |
| n-Nitrosodi-n-propylamine | 0.850 | U | 0.392 | 0.412 | 46.1 | 48.6 | 2 | 10.0-120 | J | J | 4.96 | 37 |
| Phenanthrene | 0.850 | U | 0.524 | 0.518 | 61.7 | 61.1 | 2 | 17.0-120 | | | 1.27 | 31 |
| Benzylbutyl phthalate | 0.850 | U | 0.639 | 0.627 | 75.2 | 74.0 | 2 | 23.0-120 | J | J | 1.89 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.850 | U | 0.641 | 0.624 | 75.5 | 73.7 | 2 | 17.0-126 | J | J | 2.73 | 30 |
| Di-n-butyl phthalate | 0.850 | U | 0.558 | 0.562 | 65.6 | 66.3 | 2 | 30.0-120 | J | J | 0.712 | 29 |
| Diethyl phthalate | 0.850 | U | 0.548 | 0.515 | 64.5 | 60.8 | 2 | 26.0-120 | J | J | 6.24 | 28 |
| Dimethyl phthalate | 0.850 | U | 0.500 | 0.471 | 58.9 | 55.6 | 2 | 25.0-120 | J | J | 6.01 | 29 |
| Di-n-octyl phthalate | 0.850 | U | 0.669 | 0.654 | 78.8 | 77.3 | 2 | 21.0-123 | J | J | 2.21 | 29 |
| Pyrene | 0.850 | U | 0.596 | 0.592 | 70.2 | 69.9 | 2 | 16.0-121 | | | 0.670 | 32 |
| 1,2,4-Trichlorobenzene | 0.850 | U | 0.410 | 0.372 | 48.3 | 43.9 | 2 | 12.0-120 | J | J | 9.85 | 37 |
| 4-Chloro-3-methylphenol | 0.850 | U | 0.458 | 0.438 | 53.9 | 51.7 | 2 | 15.0-120 | J | J | 4.44 | 30 |
| 2-Chlorophenol | 0.850 | U | 0.455 | 0.449 | 53.6 | 53.0 | 2 | 15.0-120 | J | J | 1.47 | 37 |
| 2,4-Dichlorophenol | 0.850 | U | 0.455 | 0.429 | 53.6 | 50.6 | 2 | 20.0-120 | J | J | 6.01 | 31 |
| 2,4-Dimethylphenol | 0.850 | U | 0.382 | 0.372 | 45.0 | 43.9 | 2 | 10.0-120 | J | J | 2.82 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.850 | U | 0.450 | 0.495 | 53.0 | 58.5 | 2 | 10.0-120 | J | J | 9.55 | 39 |
| 2,4-Dinitrophenol | 0.850 | U | 0.348 | 0.293 | 40.9 | 34.6 | 2 | 10.0-121 | J | J | 17.0 | 40 |
| 2-Nitrophenol | 0.850 | U | 0.474 | 0.458 | 55.8 | 54.1 | 2 | 12.0-120 | J | J | 3.42 | 39 |
| 4-Nitrophenol | 0.850 | U | 0.591 | 0.570 | 69.5 | 67.2 | 2 | 10.0-137 | J | J | 3.66 | 32 |
| Pentachlorophenol | 0.850 | U | 0.538 | 0.532 | 63.3 | 62.9 | 2 | 10.0-160 | J | J | 0.993 | 31 |
| Phenol | 0.850 | U | 0.442 | 0.443 | 52.0 | 52.4 | 2 | 12.0-120 | J | J | 0.300 | 38 |
| 2,4,6-Trichlorophenol | 0.850 | U | 0.512 | 0.487 | 60.3 | 57.5 | 2 | 19.0-120 | J | J | 5.05 | 32 |
| *(S) 2-Fluorophenol* | | | | | *56.1* | *57.1* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *53.6* | *55.4* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *40.0* | *40.4* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *50.6* | *48.9* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *57.7* | *59.0* | | *10.0-127* | | | | |

## L1741921-63 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-63 06/14/24 01:07 • (MS) R4081754-3 06/14/24 01:32 • (MSD) R4081754-4 06/14/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *66.9* | *68.0* | | *10.0-120* | | | | |

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure.

Cp Tc Ss Cn Ds Sr Qc Gl Al Sc

## Method Blank (MB)

(MB) R4081696-2 06/13/24 18:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4081696-2 06/13/24 18:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *64.7* | | | *12.0-120* |
| *(S) Phenol-d5* | *58.7* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *58.9* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *66.7* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *46.1* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *69.4* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4081696-1 06/13/24 18:20

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.413 | 62.0 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.437 | 65.6 | 40.0-120 | |
| Anthracene | 0.666 | 0.452 | 67.9 | 42.0-120 | |
| Benzidine | 1.33 | 0.646 | 48.6 | 10.0-120 | J |
| Benzo(a)anthracene | 0.666 | 0.490 | 73.6 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.457 | 68.6 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.471 | 70.7 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.423 | 63.5 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.478 | 71.8 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.323 | 48.5 | 20.0-120 | J |
| Bis(2-chloroethyl)ether | 0.666 | 0.381 | 57.2 | 16.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4081696-1 06/13/24 18:20

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.379 | 56.9 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.346 | 52.0 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.399 | 59.9 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.461 | 69.2 | 40.0-120 | |
| Chrysene | 0.666 | 0.489 | 73.4 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.420 | 63.1 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.395 | 59.3 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.373 | 56.0 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.383 | 57.5 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.836 | 62.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.511 | 76.7 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.545 | 81.8 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.439 | 65.9 | 44.0-120 | |
| Fluorene | 0.666 | 0.452 | 67.9 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.304 | 45.6 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.380 | 57.1 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.347 | 52.1 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.379 | 56.9 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.409 | 61.4 | 45.0-120 | |
| Isophorone | 0.666 | 0.341 | 51.2 | 23.0-120 | |
| Naphthalene | 0.666 | 0.335 | 50.3 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.338 | 50.8 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.379 | 56.9 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.403 | 60.5 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.393 | 59.0 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.440 | 66.1 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.598 | 89.8 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.598 | 89.8 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.467 | 70.1 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.510 | 76.6 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.487 | 73.1 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.605 | 90.8 | 40.0-120 | |
| Pyrene | 0.666 | 0.521 | 78.2 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.367 | 55.1 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.352 | 52.9 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.417 | 62.6 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.365 | 54.8 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.405 | 60.8 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.672 | 101 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.680 | 102 | 10.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4081696-1 06/13/24 18:20

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.432 | 64.9 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.644 | 96.7 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.407 | 61.1 | 29.0-120 | |
| Phenol | 0.666 | 0.355 | 53.3 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.447 | 67.1 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *61.1* | *12.0-120* | |
| *(S) Phenol-d5* | | | *55.6* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *44.7* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *61.9* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *46.2* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *66.7* | *10.0-120* | |

## L1741921-39 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-39 06/14/24 00:13 • (MS) R4081696-3 06/14/24 00:34 • (MSD) R4081696-4 06/14/24 00:55

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.800 | U | 0.471 | 0.429 | 58.8 | 53.2 | 2 | 18.0-120 | | | 9.21 | 32 |
| Acenaphthylene | 0.800 | U | 0.494 | 0.459 | 61.7 | 56.8 | 2 | 25.0-120 | | | 7.43 | 32 |
| Anthracene | 0.800 | U | 0.534 | 0.571 | 66.8 | 70.7 | 2 | 22.0-120 | | | 6.62 | 29 |
| Benzidine | 1.60 | U | 0.644 | 0.893 | 40.3 | 55.5 | 2 | 10.0-120 | J | J | 32.4 | 40 |
| Benzo(a)anthracene | 0.800 | U | 0.562 | 0.619 | 70.3 | 76.6 | 2 | 25.0-120 | | | 9.50 | 29 |
| Benzo(b)fluoranthene | 0.800 | U | 0.526 | 0.581 | 65.7 | 71.9 | 2 | 19.0-122 | | | 9.92 | 31 |
| Benzo(k)fluoranthene | 0.800 | U | 0.522 | 0.566 | 65.2 | 70.1 | 2 | 23.0-120 | | | 8.07 | 30 |
| Benzo(g,h,i)perylene | 0.800 | U | 0.395 | 0.428 | 49.4 | 53.0 | 2 | 10.0-120 | | | 8.00 | 33 |
| Benzo(a)pyrene | 0.800 | U | 0.547 | 0.589 | 68.3 | 73.0 | 2 | 24.0-120 | | | 7.52 | 30 |
| Bis(2-chlorethoxy)methane | 0.800 | U | 0.345 | 0.339 | 43.1 | 42.0 | 2 | 10.0-120 | J | J | 1.78 | 34 |
| Bis(2-chloroethyl)ether | 0.800 | U | 0.342 | 0.310 | 42.7 | 38.4 | 2 | 10.0-120 | J | J | 9.74 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.800 | U | 0.348 | 0.320 | 43.4 | 39.6 | 2 | 10.0-120 | J | J | 8.41 | 40 |
| 4-Bromophenyl-phenylether | 0.800 | U | 0.425 | 0.438 | 53.0 | 54.2 | 2 | 27.0-120 | J | J | 3.11 | 30 |
| 2-Chloronaphthalene | 0.800 | U | 0.455 | 0.406 | 56.9 | 50.3 | 2 | 20.0-120 | | | 11.3 | 32 |
| 4-Chlorophenyl-phenylether | 0.800 | U | 0.542 | 0.517 | 67.7 | 64.0 | 2 | 24.0-120 | J | J | 4.61 | 29 |
| Chrysene | 0.800 | U | 0.560 | 0.619 | 70.0 | 76.6 | 2 | 21.0-120 | | | 9.94 | 29 |
| Dibenz(a,h)anthracene | 0.800 | U | 0.443 | 0.473 | 55.3 | 58.6 | 2 | 10.0-120 | | | 6.66 | 32 |
| 1,2-Dichlorobenzene | 0.800 | U | 0.353 | 0.327 | 44.1 | 40.5 | 2 | 10.0-120 | J | J | 7.54 | 38 |
| 1,3-Dichlorobenzene | 0.800 | U | 0.325 | 0.294 | 40.5 | 36.4 | 2 | 10.0-120 | J | J | 9.86 | 40 |
| 1,4-Dichlorobenzene | 0.800 | U | 0.329 | 0.312 | 41.2 | 38.7 | 2 | 10.0-120 | J | J | 5.32 | 39 |
| 3,3-Dichlorobenzidine | 1.60 | U | 0.990 | 1.12 | 61.9 | 69.3 | 2 | 10.0-120 | | | 12.1 | 34 |
| 2,4-Dinitrotoluene | 0.800 | U | 0.581 | 0.603 | 72.6 | 74.6 | 2 | 30.0-120 | J | J | 3.71 | 31 |

# QUALITY CONTROL SUMMARY

L1741921-04,06,11,16,21,23,28,34,39,41,46,51,53,59,64,66,71

## L1741921-39 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-39 06/14/24 00:13 • (MS) R4081696-3 06/14/24 00:34 • (MSD) R4081696-4 06/14/24 00:55

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.800 | U | 0.595 | 0.595 | 74.4 | 73.7 | 2 | 25.0-120 | J | J | 0.000 | 31 |
| Fluoranthene | 0.800 | U | 0.506 | 0.555 | 63.3 | 68.7 | 2 | 18.0-126 | | | 9.20 | 32 |
| Fluorene | 0.800 | U | 0.525 | 0.514 | 65.5 | 63.6 | 2 | 25.0-120 | | | 2.12 | 30 |
| Hexachlorobenzene | 0.800 | U | 0.354 | 0.382 | 44.2 | 47.3 | 2 | 27.0-120 | J | J | 7.63 | 28 |
| Hexachloro-1,3-butadiene | 0.800 | U | 0.410 | 0.366 | 51.2 | 45.3 | 2 | 10.0-120 | J | J | 11.3 | 38 |
| Hexachlorocyclopentadiene | 0.800 | U | 0.0611 | U | 7.64 | 5.03 | 2 | 10.0-120 | J J6 | J J3 J6 | 40.3 | 40 |
| Hexachloroethane | 0.800 | U | 0.293 | 0.257 | 36.6 | 31.9 | 2 | 10.0-120 | J | J | 12.9 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.800 | U | 0.412 | 0.451 | 51.5 | 55.9 | 2 | 10.0-120 | | | 9.04 | 32 |
| Isophorone | 0.800 | U | 0.367 | 0.357 | 45.9 | 44.3 | 2 | 13.0-120 | J | J | 2.69 | 34 |
| Naphthalene | 0.800 | U | 0.355 | 0.332 | 44.4 | 41.1 | 2 | 10.0-120 | | | 6.75 | 35 |
| Nitrobenzene | 0.800 | U | 0.334 | 0.309 | 41.8 | 38.2 | 2 | 10.0-120 | J | J | 7.97 | 36 |
| n-Nitrosodimethylamine | 0.800 | U | 0.317 | 0.314 | 39.6 | 38.8 | 2 | 10.0-127 | J | J | 1.16 | 40 |
| n-Nitrosodiphenylamine | 0.800 | U | 0.481 | 0.504 | 60.1 | 62.4 | 2 | 17.0-120 | J | J | 4.71 | 29 |
| n-Nitrosodi-n-propylamine | 0.800 | U | 0.383 | 0.367 | 47.9 | 45.5 | 2 | 10.0-120 | J | J | 4.23 | 37 |
| Phenanthrene | 0.800 | U | 0.523 | 0.559 | 65.4 | 69.2 | 2 | 17.0-120 | | | 6.54 | 31 |
| Benzylbutyl phthalate | 0.800 | U | 0.692 | 0.750 | 86.4 | 92.9 | 2 | 23.0-120 | J | J | 8.12 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.800 | U | 0.687 | 0.758 | 85.8 | 93.8 | 2 | 17.0-126 | J | J | 9.80 | 30 |
| Di-n-butyl phthalate | 0.800 | U | 0.547 | 0.595 | 68.3 | 73.7 | 2 | 30.0-120 | J | J | 8.55 | 29 |
| Diethyl phthalate | 0.800 | U | 0.577 | 0.586 | 72.1 | 72.5 | 2 | 26.0-120 | J | J | 1.47 | 28 |
| Dimethyl phthalate | 0.800 | U | 0.534 | 0.525 | 66.8 | 65.0 | 2 | 25.0-120 | J | J | 1.84 | 29 |
| Di-n-octyl phthalate | 0.800 | U | 0.709 | 0.778 | 88.6 | 96.4 | 2 | 21.0-123 | J | J | 9.35 | 29 |
| Pyrene | 0.800 | U | 0.587 | 0.637 | 73.3 | 78.9 | 2 | 16.0-121 | | | 8.18 | 32 |
| 1,2,4-Trichlorobenzene | 0.800 | U | 0.382 | 0.351 | 47.7 | 43.5 | 2 | 12.0-120 | J | J | 8.32 | 37 |
| 4-Chloro-3-methylphenol | 0.800 | U | 0.471 | 0.482 | 58.8 | 59.7 | 2 | 15.0-120 | J | J | 2.30 | 30 |
| 2-Chlorophenol | 0.800 | U | 0.410 | 0.399 | 51.2 | 49.4 | 2 | 15.0-120 | J | J | 2.71 | 37 |
| 2,4-Dichlorophenol | 0.800 | U | 0.470 | 0.455 | 58.7 | 56.3 | 2 | 20.0-120 | J | J | 3.17 | 31 |
| 2,4-Dimethylphenol | 0.800 | U | 0.517 | 0.511 | 64.6 | 63.3 | 2 | 10.0-120 | J | J | 1.19 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.800 | U | 0.238 | U | 29.7 | 21.9 | 2 | 10.0-120 | J | J | 29.4 | 39 |
| 2,4-Dinitrophenol | 0.800 | U | 0.194 | U | 24.2 | 0.000 | 2 | 10.0-121 | J | J3 J6 | 200 | 40 |
| 2-Nitrophenol | 0.800 | U | 0.423 | 0.399 | 52.9 | 49.4 | 2 | 12.0-120 | J | J | 5.93 | 39 |
| 4-Nitrophenol | 0.800 | U | 0.716 | 0.778 | 89.5 | 96.4 | 2 | 10.0-137 | J | J | 8.33 | 32 |
| Pentachlorophenol | 0.800 | U | 0.550 | 0.591 | 68.8 | 73.1 | 2 | 10.0-160 | J | J | 7.06 | 31 |
| Phenol | 0.800 | U | 0.376 | 0.376 | 47.0 | 46.5 | 2 | 12.0-120 | J | J | 0.000 | 38 |
| 2,4,6-Trichlorophenol | 0.800 | U | 0.580 | 0.554 | 72.4 | 68.6 | 2 | 19.0-120 | J | J | 4.52 | 32 |
| *(S) 2-Fluorophenol* | | | | | *45.8* | *41.1* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *45.1* | *41.9* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *36.6* | *34.7* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *54.3* | *45.0* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *45.7* | *45.2* | | *10.0-127* | | | | |

## L1741921-39 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-39 06/14/24 00:13 • (MS) R4081696-3 06/14/24 00:34 • (MSD) R4081696-4 06/14/24 00:55

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| *(S) p-Terphenyl-d14* | | | | | *56.4* | *57.7* | | *10.0-120* | | | | |

**Sample Narrative:**

OS: Dilution due to matrix impact during extract concentration procedure.

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |

# GLOSSARY OF TERMS

| Qualifier | Description |
|---|---|
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # Roux Associates, Inc.

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Aguayo/D. Bailey

Site/Facility ID # AB&I Foundry

P.O. # 1793.0030S000

Collected by (signature):

Immediately Packed on Ice N___ Y_X_

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day _X_ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

**Quote #** P1076441

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/UC-I2-1-1.0 | Grab | SS | 1.0 | 5/30/24 | ~~1300~~ 1020 | 3 | ○ | ○ | ● | ● | ● | | | -01 |
| G/UC-I2-1-2.0 | Grab | SS | 2.0 | 1025 | ~~1305~~ 1025 DUP/3 | 3 | ○ | ○ | ● | ○ | ● | ● | | -02 |
| G/UC-I2-1-3.0 | Grab | SS | 3.0 | 1030 | DUP/1315 | 4 | ● | ● | ● | ○ | ● | ○ | | -03 |
| G/UC-I2-1-4.0 | Grab | SS | 4.0 | 1040 | ~~1325~~ | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -04 |
| G/UC-I2-1-5.0 | Grab | SS | 5.0 | | 1045 | 4 | ● | ● | ○ | ○ | ○ | ● | | -05 |
| G/UC-I2-1-8.0 | Grab | SS | 8.0 | | 1050 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -06 |
| G/UC-I2-1-10.0 | Grab | SS | 10.0 | | 1055 | 4 | ○ | ○ | ○ | ○ | ○ | ● | | -07 |

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgement and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1741921
L-152

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 5/30/24 | 1520 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/30/24 | 1630 | SWA CAMCO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: NCF / OK |
| | | | CROBLED | 05.31.24 | 1300 | | |

Company Name/Address:
**Roux - Oakland, CA**
555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to: **Josh Osborne**

Email To: josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland CA.

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # ABKI

Lab Project # **ROUXOCA-CA**

Collected by (print): T. Aguayo

Site/Facility ID # —

P.O. # —

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

**Rush?** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ✓ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote # —

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | H&D. | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/uc-H4-1-1.0 | Grab | SS | 1 | 05/30/24 | 1215 | 3-4 | | | X | X | X | | X | | | | -08 |
| G/uc-H4-1-2.0 | | SS | 2 | | 1225 | 4 | | | X | | X | X | X | | | | -09 |
| G/uc-H4-1-3.0 | | SS | 3 | | 1230 | 4 | X | X | X | | | | X | | | | -10 |
| G/uc-H4-1-4.0 | | SS | 4 | | 1240 | 4 | | | | | | | X | | | | -11 |
| G/uc-H4-1-5.0 | | SS | 5 | | 1250 | 4 | X | X | | | | X | X | | | | -12 |
| G-H3-1-1.0 | | SS | 1 | | 1005 | 2 | | | X | X | X | | X | | | | -13 |
| G-H3-1-2.0 | | SS | 2 | | 1010 | 4 | | | X | | X | X | X | | | | -14 |
| G-H3-1-3.0 | | SS | 3 | | 1025 | 4 | X | X | X | | X | | X | | | | -15 |
| G-H3-1-4.0 | | SS | 4 | | 1035 | 4 | | | | | | | X | | | | -16 |
| G-H3-1-5.0 | ✓ | SS | 5 | ✓ | 1040 | 4 | X | X | | | | | X | | | | -17 |

Chain of Custody Page 2 of 10

Pace
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**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # L1741921

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/30/24 | 1515. | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/30/24 | 16:30 | SWA CARCO | | 5/31/24 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | CRobert | 05.31.24 1300 | |

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
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Oakland, CA 94607

Pres Chk

Report to: Josh Osborne

Email To: Josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description: AB&I Redevelopment

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: 415-967-6000

Client Project # Roux Associates, Inc.

Lab Project # ROUXOCA-CA

Collected by (print): J. Aguayo/D. Bailey

Site/Facility ID # AB&I Foundry

P.O. # 1793.0030S000

Collected by (signature):

Immediately Packed on Ice N___ Y X

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote # P1078441

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UC-H1-1-1.0 | Grab | SS | 1.0 | 5/30/24 | 0810 | 3 | ○ | ○ | ● | ● | ● | | | -18 |
| UC-H1-1-2.0 | Grab | SS | 2.0 | | 0815 | 4 | ○ | ○ | ● | ○ | ● | ● | | -19 |
| UC-H1-1-3.0 | Grab | SS | 3.0 | | 0820 | 4 | ● | ● | ● | ○ | ● | ○ | | -20 |
| UC-H1-1-4.0 | Grab | SS | 4.0 | | 0825 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -21 |
| UC-H1-1-5.0 | Grab | SS | 5.0 | | 0830 | 4 | ● | ● | ○ | ○ | ○ | ● | | -22 |
| UC-H1-1-8.0 | Grab | SS | 8.0 | | 0845 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -23 |
| UC-H1-1-10.0 | Grab | SS | 10.0 | | 0850 | 4 | ○ | ○ | ○ | ○ | ○ | ● | | -24 |

Immediately Packed on Ice N___ Y X

Chain of Custody Page 3 of 10

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SDG # L1741921

Table #

Acctnum: ROUXOCA

Template: T253291

Prelogin: P1076441

PM: 3500 - Jennifer Gambill

PB:

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/30/24 | 1515 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/30/24 | 16:30 | SUB COURIER | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | CROCERD | 05.31.24 1300 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately Packed on Ice N___ Y_X_

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day _X_ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

**Quote #**
P1076441

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH 10ml/Syr | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-I3-1-1.0 | Grab | SS | 1.0 | 05/30/24 | 1430 | 3 | ○ | ○ | ● | ● | ● | | | | | | | -25 |
| BS-I3-1-2.0 | Grab | SS | 2.0 | | 1440 | 4 | ○ | ○ | ● | ○ | ● | ● | | | | | | -26 |
| BS-I3-1-3.0 | Grab | SS | 3.0 | | 1450 | 4 | ● | ● | ● | ○ | ● | ● | | | | | | -27 |
| BS-I3-1-4.0 | Grab | SS | 4.0 | | 1500 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | -28 |
| BS-I3-1-5.0 | Grab | SS | 5.0 | | 1510 | 4 | ● | ● | ○ | ○ | ○ | ● | | | | | | -29 |
| TB-053024. | grab | ~~SS~~ W | — | | 1200 | 1 | | | | | | X | | | | | | -30 |

Chain of Custody Page 4 of 5

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1741921

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

Analysis / Container / Preservative

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: X Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| | 05/30/24 | 1515. | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| | 5/30/24 | 16:30 | SUN CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | CRoyer | 05:31:24 1300 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**Josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-H2-1-1.0 | Grab | SS | 1.0 | 05/30/24 | 0910 | 3 | ○ | ○ | ● | ● | ● | | | -31 |
| G-H2-1-2.0 | Grab | SS | 2.0 | | 0915 | 4 | ○ | ○ | ● | ○ | ● | ● | | -32 |
| G-H2-1-3.0 | Grab | SS | 3.0 | | 0920 | 4 | ● | ● | ● | ○ | ● | ● | | -33 |
| G-H2-1-4.0 | Grab | SS | 4.0 | | 0930 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -34 |
| G-H2-1-5.0 | Grab | SS | 5.0 | | 0940 | 4 | ● | ● | ○ | ○ | ○ | ● | | -35 |
| | | SS | | | | | | | | | | | | |

Chain of Custody Page 5 of 6

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1741921

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeoH TBR |
|---|---|---|---|---|
| | 05/30/24 | 1515 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: |
| | 5/30/24 | 16:30 | SWA COURIER | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: |
| | | | CRoque | 05.31.24 1300 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately
Packed on Ice N____ Y__X__

***Rush?*** (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day __X__ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #
P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/UC-I4-1-1.0 | Grab | SS | 1.0 | 05/30/24 | 1320 | 3 | ○ | ○ | ● | ● | ● | | | -36 |
| G/UC-I4-1-2.0 | Grab | SS | 2.0 | | 1330 | 4 | ○ | ○ | ● | ○ | ● | ● | | -37 |
| G/UC-I4-1-3.0 | Grab | SS | 3.0 | | 1340 | 4 | ● | ● | ● | ○ | ● | ○ | | -38 |
| G/UC-I4-1-4.0 | Grab | SS | 4.0 | | 1350 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -39 |
| G/UC-I4-1-5.0 | Grab | SS | 5.0 | | 1400 | 4 | ● | ● | ○ | ○ | ○ | ● | | -40 |
| G/UC-I4-1-8.0 | Grab | SS | 8.0 | | 1405 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -41 |
| G/UC-I4-1-10.0 | Grab | SS | 10.0 | ↓ | 1410 | 4 | ○ | ○ | ○ | ○ | ○ | ● | | -42 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Chain of Custody Page 2 of 10

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L741921

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X __Y __N
Bottles arrive intact: X __Y __N
Correct bottles used: X __Y __N
Sufficient volume sent: X __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/30/24 | 1515 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/30/24 | 16:30 | FWA CARGO | | HR 5/31/24 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | CROOKED | 05.31.24 1300 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately
Packed on Ice N____ Y__X__

***Rush?*** (Lab MUST Be Notified)
____Same Day ____Five Day
____Next Day __X__5 Day (Rad Only)
____Two Day ____10 Day (Rad Only)
____Three Day

Date Results Needed

**Quote #**
P1076441

Analysis / Container / Preservative

Chain of Custody Page 7 of 10

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1741921

Table #

Acctnum: **ROUXOCA**
Template:**T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH 10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-I1-1-1.0 | Grab | SS | 1.0 | 5/30/24 | 815 | 12 | ○ | ○ | ● | ● | ● | | | -43 |
| BS-I1-1-2.0 | Grab | SS | 2.0 | | 820 | 13 | ○ | ○ | ● | ○ | ● | ● | | -44 |
| BS-I1-1-3.0 | Grab | SS | 3.0 | | 825 | 4 | ● | ● | ● | ○ | ● | ● | | -45 |
| BS-I1-1-4.0 | Grab | SS | 4.0 | | 830 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -46 |
| BS-I1-1-5.0 | Grab | SS | 5.0 | | 835 | 4 | ● | ● | ○ | ○ | ○ | ● | | -47 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__UPS __FedEx __Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

| | Date: | Time: | | |
|---|---|---|---|---|
| Relinquished by : (Signature) | 5/30/24 | 1520 | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
| Relinquished by : (Signature) | 5/30/24 | 16:30 | Received by: (Signature) SWS CARGO | Temp: °C Bottles Received: |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) CROBERD | Date: 05.31.24 Time: 1300 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately
Packed on Ice N___ Y_X_

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day _X_ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/UC-I3-1-1.0 | Grab | SS | 1.0 | 5/30/24 | 1400 | 3 | ○ | ○ | ● | ● | ● | | | -48 |
| G/UC-I3-1-2.0 | Grab | SS | 2.0 | | 1405 | 4 | ○ | ○ | ● | ○ | ● | ● | | -49 |
| G/UC-I3-1-3.0 | Grab | SS | 3.0 | | 1415 | 4 | ● | ● | ● | ○ | ● | ○ | | -50 |
| G/UC-I3-1-4.0 | Grab | SS | 4.0 | | 1420 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -51 |
| G/UC-I3-1-5.0 | Grab | SS | 5.0 | | 1430 | 4 | ● | ● | ○ | ○ | ○ | ● | | -52 |
| G/UC-I3-1-8.0 | Grab | SS | 8.0 | | 1435 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -53 |
| G/UC-I3-1-10.0 | Grab | SS | 10.0 | ↓ | 1440 | 4 | ○ | ○ | ○ | ○ | ○ | ● | | -54 |
| EB-053024 | Geb | WW | – | 5/30/24 | 1119 | 9 | ● | ● | ● | | | ● | | -55 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Chain of Custody Page 8 of 10

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # U74924

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 5/30/24 | 1520 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/30/24 | 16:30 | SWA CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | CROUND | 05.31.24 1300 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to: **Josh Osborne**

Email To: **josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description: **AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project # Roux Associates, Inc.

Lab Project # **ROUXOCA-CA**

Collected by (print): J. Aguayo/D. Bailey

Site/Facility ID # AB&I Foundry

P.O. # 1793.0030S000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

**Quote #** P1076441

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-I2-1-1.0 | Grab | SS | 1.0 | 5/30/24 | 1300 | 3 | ○ | ○ | ● | ● | ● | | | -56 |
| BS-I2-1-2.0 | Grab | SS | 2.0 | | 1305 | 4 | ○ | ○ | ● | ○ | ● | ● | | -57 |
| BS-I2-1-3.0 | Grab | SS | 3.0 | | 1315 | 4 | ● | ● | ● | ○ | ● | ● | | -58 |
| BS-I2-1-4.0 | Grab | SS | 4.0 | | 1320 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -59 |
| BS-I2-1-5.0 | Grab | SS | 5.0 | ↓ | 1325 | 4 | ● | ● | ○ | ○ | ○ | ● | | -60 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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Chain of Custody Page 9 of 10

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1741921

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| | 5/30/24 | 1520 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| | 5/30/24 | 16:30 | SWA CAR60 | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | C Roberts | 05.31.24 1300 | |

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland. CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):

Immediately
Packed on Ice N____ Y__X__

***Rush?*** (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day __X__ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Date Results Needed

**Quote #**
P1076441

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/UC-I1-1-1.0 | Grab | SS | 1.0 | 5/30/24 | 9153 | 4 | ○ | ○ | ● | ● | ● | | | -61 |
| G/UC-I1-1-2.0 | Grab | SS | 2.0 | | 9204 | 4 | ○ | ○ | ● | ○ | ● | ● | | -62 |
| G/UC-I1-1-3.0 | Grab | SS | 3.0 | | 925 | 4 | ● | ● | ● | ○ | ● | ○ | | -63 |
| G/UC-I1-1-4.0 | Grab | SS | 4.0 | | 932 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -64 |
| G/UC-I1-1-5.0 | Grab | SS | 5.0 | | 940 | 4 | ● | ● | ○ | ○ | ○ | ● | | -65 |
| G/UC-I1-1-8.0 | Grab | SS | 8.0 | | 945 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -66 |
| G/UC-I1-1-10.0 | Grab | SS | 10.0 | | 950 | 4 | ○ | ○ | ○ | ○ | ○ | ● | | -67 |

Chain of Custody Page 10 of 14

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L741921

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**
● = ANALYZE
○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

| | Date: | Time: | | |
|---|---|---|---|---|
| Relinquished by : (Signature) | 5/30/24 | 1820 | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
| Relinquished by : (Signature) | 5/30/24 | 16:30 | Received by: (Signature) SWA CARGO | Temp: °C Bottles Received: |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) CAROLD | Date: 05.31.24 Time: 1300 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

LTH1921

| Tracking Numbers | Temperature |
| --- | --- |
| SWA | 1.9+0.1=2.0 EDAL6 |
| 1 | 0.8+0.1=0.9 EDAL6 |
| | 1.7+0.1=1.8 EDAL6 |
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Name

Date

## 5/31-NCF-L1741921 ROUXOCA

R5

**Time estimate:** oh **Time spent:** oh

**Members**

Hailey Robertson (responsible) Jennifer Gambill

Due on *4 June 2024 8:00 AM* for target *Done*

- [ ] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [x] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [x] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

**Comments**

*Hailey Robertson* *31 May 2024 5:22 PM*

Received IDs: G/BS-H1-1-1.0, G/BS-H1-1-2.0, G/BS-H1-1-3.0, G/BS-H1-1-4.0, G/BS-H1-1-5.0.

*Jennifer Gambill* *3 June 2024 6:40 PM*

Please log samples as requested:

G/BS-H1-1-1.0: SVOCs, CAM 17 Metals, PCBs
G/BS-H1-1-2.0: VOCs, SVOCs, CAM17 Metals, PCBs
G/BS-H1-1-3.0: VOCs, SVOCs, TPH-g/-d/-mo, CAM 17 Metals
G/BS-H1-1-4.0: Hold
G/BS-H1-1-5.0: VOCs, TPH-g/-d/-mo

*Hailey Robertson* *4 June 2024 12:50 PM*

Done

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1742685 |
| Samples Received: | 05/25/2024 |
| Project Number: | ROUX ASSOCIATES INC. |
| Description: | AB&I Redevelopment |
| Site: | AB&I FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G/UC-B4-1-1.0 L1742685-01 Solid

Collected by: D.B. | Collected date/time: 05/23/24 15:45 | Received date/time: 05/25/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298756 | 1 | 06/05/24 09:41 | 06/05/24 09:54 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2298791 | 1 | 06/08/24 17:42 | 06/09/24 14:15 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300474 | 1 | 06/11/24 17:33 | 06/12/24 12:28 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 25 | 05/23/24 15:45 | 06/07/24 08:36 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304143 | 1 | 06/14/24 01:34 | 06/14/24 22:20 | HCS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 14:22 | DSH | Mt. Juliet, TN |

## G/UC-B4-1-2.0 L1742685-02 Solid

Collected by: D.B. | Collected date/time: 05/23/24 15:50 | Received date/time: 05/25/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298756 | 1 | 06/05/24 09:41 | 06/05/24 09:54 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2298791 | 2 | 06/08/24 17:42 | 06/09/24 16:09 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300474 | 1 | 06/11/24 17:33 | 06/12/24 12:30 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300474 | 1 | 06/11/24 17:33 | 06/13/24 09:35 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 25 | 05/23/24 15:50 | 06/07/24 08:59 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300290 | 1 | 05/23/24 15:50 | 06/06/24 19:29 | JHH | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2304143 | 1 | 06/14/24 01:34 | 06/14/24 22:29 | HCS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 14:47 | DSH | Mt. Juliet, TN |

## G/UC-B4-1-3.0 L1742685-03 Solid

Collected by: D.B. | Collected date/time: 05/23/24 16:00 | Received date/time: 05/25/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298756 | 1 | 06/05/24 09:41 | 06/05/24 09:54 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2298791 | 1 | 06/08/24 17:42 | 06/09/24 14:20 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300474 | 1 | 06/11/24 17:33 | 06/12/24 12:31 | DJS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2300474 | 1 | 06/11/24 17:33 | 06/13/24 09:36 | DJS | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 31.3 | 05/23/24 16:00 | 06/07/24 09:22 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300290 | 1.25 | 05/23/24 16:00 | 06/06/24 19:48 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 1 | 06/06/24 05:50 | 06/06/24 16:17 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2298678 | 1 | 06/05/24 11:12 | 06/06/24 16:26 | DSH | Mt. Juliet, TN |

## G/UC-B4-1-4.0 L1742685-04 Solid

Collected by: D.B. | Collected date/time: 05/23/24 16:05 | Received date/time: 05/25/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2299978 | 1 | 06/07/24 15:52 | 06/07/24 16:04 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 25.5 | 05/23/24 16:05 | 06/07/24 11:19 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300290 | 1.25 | 05/23/24 16:05 | 06/06/24 20:08 | JHH | Mt. Juliet, TN |

## G/UC-B4-1-5.0 L1742685-05 Solid

Collected by: D.B. | Collected date/time: 05/23/24 16:13 | Received date/time: 05/25/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298756 | 1 | 06/05/24 09:41 | 06/05/24 09:54 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 28.5 | 05/23/24 16:13 | 06/07/24 11:42 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300290 | 1.08 | 05/23/24 16:13 | 06/06/24 20:27 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2299534 | 1 | 06/06/24 05:50 | 06/06/24 15:34 | JAS | Mt. Juliet, TN |

# SAMPLE SUMMARY

## G/UC-B4-1-8.0 L1742685-06 Solid

Collected by: D.B.
Collected date/time: 05/23/24 16:05
Received date/time: 05/25/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2299978 | 1 | 06/07/24 15:52 | 06/07/24 16:04 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2300368 | 25 | 05/23/24 16:05 | 06/07/24 12:05 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300290 | 1 | 05/23/24 16:05 | 06/06/24 20:47 | JHH | Mt. Juliet, TN |

## G/UC-B4-1-10.0 L1742685-07 Solid

Collected by: D.B.
Collected date/time: 05/23/24 16:15
Received date/time: 05/25/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2298756 | 1 | 06/05/24 09:41 | 06/05/24 09:54 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2300290 | 1 | 05/23/24 16:15 | 06/06/24 21:06 | JHH | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 06/30/24 18:24
Level II Report - Version 2: 08/16/24 10:46

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-1.0 | L1742685-01 | Mercury | 0.0947 | | 0.0219 | 0.0487 | 1 | 06/09/2024 14:15 | WG2298791 |
| G/UC-B4-1-2.0 | L1742685-02 | Mercury | 2.33 | | 0.0398 | 0.0885 | 2 | 06/09/2024 16:09 | WG2298791 |
| G/UC-B4-1-3.0 | L1742685-03 | Mercury | 0.0294 | J | 0.0192 | 0.0427 | 1 | 06/09/2024 14:20 | WG2298791 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-1.0 | L1742685-01 | Antimony | 4.49 | | 0.663 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Arsenic | 5.67 | | 0.631 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Barium | 88.8 | | 0.104 | 0.609 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Beryllium | 0.299 | | 0.0384 | 0.244 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Cadmium | 9.40 | | 0.0574 | 0.609 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Chromium | 35.2 | | 0.162 | 1.22 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Cobalt | 2.76 | | 0.0988 | 1.22 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Copper | 73.4 | | 0.487 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Lead | 2240 | | 0.253 | 0.609 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Molybdenum | 5.05 | | 0.133 | 0.609 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Nickel | 19.1 | | 0.161 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Selenium | 2.34 | J | 0.931 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Vanadium | 32.4 | | 0.617 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-1.0 | L1742685-01 | Zinc | 967 | | 1.01 | 6.09 | 1 | 06/12/2024 12:28 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Antimony | 11.2 | | 0.602 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Arsenic | 12.2 | | 0.573 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Barium | 271 | | 0.0943 | 0.553 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Beryllium | 0.350 | | 0.0349 | 0.221 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Cadmium | 0.216 | J | 0.0521 | 0.553 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Chromium | 34.9 | | 0.147 | 1.11 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Cobalt | 22.6 | | 0.0898 | 1.11 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Copper | 131 | | 0.443 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Lead | 24.3 | | 0.230 | 0.553 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Nickel | 41.3 | | 0.146 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Selenium | 2.51 | | 0.846 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Vanadium | 72.3 | | 0.560 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-2.0 | L1742685-02 | Zinc | 93.8 | | 0.921 | 5.53 | 1 | 06/12/2024 12:30 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Antimony | 2.06 | J | 0.581 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Arsenic | 2.09 | J | 0.553 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Barium | 56.0 | | 0.0910 | 0.534 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Beryllium | 0.162 | J | 0.0336 | 0.214 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Cadmium | 0.0935 | J | 0.0503 | 0.534 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Chromium | 11.1 | | 0.142 | 1.07 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Cobalt | 7.02 | | 0.0866 | 1.07 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Copper | 3.85 | | 0.427 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Lead | 6.68 | | 0.222 | 0.534 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Nickel | 10.4 | | 0.141 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Vanadium | 23.9 | | 0.540 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| G/UC-B4-1-3.0 | L1742685-03 | Zinc | 18.1 | | 0.888 | 5.34 | 1 | 06/12/2024 12:31 | WG2300474 |

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-1.0 | L1742685-01 | TPHG C5 - C12 | 8.35 | T8 | 1.22 | 3.68 | 25 | 06/07/2024 08:36 | WG2300368 |
| G/UC-B4-1-3.0 | L1742685-03 | TPHG C5 - C12 | 1.28 | J T8 | 1.17 | 3.51 | 31.3 | 06/07/2024 09:22 | WG2300368 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-4.0 | L1742685-04 | TPHG C5 - C12 | 1.71 | J T8 | 1.25 | 3.76 | 25.5 | 06/07/2024 11:19 | WG2300368 |
| G/UC-B4-1-5.0 | L1742685-05 | TPHG C5 - C12 | 1.70 | J T8 | 1.22 | 3.68 | 28.5 | 06/07/2024 11:42 | WG2300368 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-3.0 | L1742685-03 | Toluene | 0.00234 | J | 0.00183 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| G/UC-B4-1-4.0 | L1742685-04 | Benzene | 0.00121 | J | 0.000835 | 0.00179 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| G/UC-B4-1-4.0 | L1742685-04 | Toluene | 0.0113 | | 0.00233 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| G/UC-B4-1-4.0 | L1742685-04 | Xylenes, Total | 0.00250 | J | 0.00157 | 0.0116 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| G/UC-B4-1-5.0 | L1742685-05 | Naphthalene | 0.00701 | J | 0.00684 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| G/UC-B4-1-10.0 | L1742685-07 | Toluene | 0.00268 | J | 0.00210 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-3.0 | L1742685-03 | C12-C22 Hydrocarbons | 4.47 | | 0.783 | 4.27 | 1 | 06/06/2024 16:17 | WG2299534 |
| G/UC-B4-1-3.0 | L1742685-03 | C22-C32 Hydrocarbons | 25.4 | | 1.42 | 4.27 | 1 | 06/06/2024 16:17 | WG2299534 |
| G/UC-B4-1-3.0 | L1742685-03 | C32-C40 Hydrocarbons | 26.3 | | 1.42 | 4.27 | 1 | 06/06/2024 16:17 | WG2299534 |
| G/UC-B4-1-5.0 | L1742685-05 | C12-C22 Hydrocarbons | 1.42 | J | 0.846 | 4.62 | 1 | 06/06/2024 15:34 | WG2299534 |
| G/UC-B4-1-5.0 | L1742685-05 | C22-C32 Hydrocarbons | 3.46 | J | 1.54 | 4.62 | 1 | 06/06/2024 15:34 | WG2299534 |
| G/UC-B4-1-5.0 | L1742685-05 | C32-C40 Hydrocarbons | 2.89 | J | 1.54 | 4.62 | 1 | 06/06/2024 15:34 | WG2299534 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-1.0 | L1742685-01 | Acenaphthene | 0.0201 | J | 0.00657 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Anthracene | 0.139 | | 0.00723 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Benzo(a)anthracene | 0.112 | | 0.00715 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Benzo(b)fluoranthene | 0.216 | | 0.00757 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Benzo(k)fluoranthene | 0.0646 | | 0.00721 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Benzo(g,h,i)perylene | 0.109 | | 0.00742 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Benzo(a)pyrene | 0.145 | | 0.00754 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Chrysene | 0.113 | | 0.00807 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Dibenz(a,h)anthracene | 0.0286 | J | 0.0112 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Fluoranthene | 0.177 | | 0.00732 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Fluorene | 0.0797 | | 0.00660 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Indeno(1,2,3-cd)pyrene | 0.112 | | 0.0115 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Naphthalene | 0.392 | | 0.0102 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Phenanthrene | 0.174 | | 0.00805 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Benzylbutyl phthalate | 0.0358 | J | 0.0127 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Bis(2-ethylhexyl)phthalate | 0.0944 | J | 0.0514 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Pyrene | 0.164 | | 0.00790 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | 2,4-Dimethylphenol | 0.189 | J | 0.0106 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-1.0 | L1742685-01 | Phenol | 0.301 | J | 0.0163 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| G/UC-B4-1-2.0 | L1742685-02 | Benzo(b)fluoranthene | 0.0102 | J | 0.00687 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| G/UC-B4-1-2.0 | L1742685-02 | Benzo(a)pyrene | 0.00714 | J | 0.00685 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| G/UC-B4-1-2.0 | L1742685-02 | Fluoranthene | 0.00738 | J | 0.00665 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| G/UC-B4-1-2.0 | L1742685-02 | Benzylbutyl phthalate | 0.0167 | J | 0.0115 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| G/UC-B4-1-2.0 | L1742685-02 | Pyrene | 0.00833 | J | 0.00717 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.1 | | 1 | 06/05/2024 09:54 | WG2298756 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0947 | | 0.0219 | 0.0487 | 1 | 06/09/2024 14:15 | WG2298791 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 4.49 | | 0.663 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| Arsenic | 5.67 | | 0.631 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| Barium | 88.8 | | 0.104 | 0.609 | 1 | 06/12/2024 12:28 | WG2300474 |
| Beryllium | 0.299 | | 0.0384 | 0.244 | 1 | 06/12/2024 12:28 | WG2300474 |
| Cadmium | 9.40 | | 0.0574 | 0.609 | 1 | 06/12/2024 12:28 | WG2300474 |
| Chromium | 35.2 | | 0.162 | 1.22 | 1 | 06/12/2024 12:28 | WG2300474 |
| Cobalt | 2.76 | | 0.0988 | 1.22 | 1 | 06/12/2024 12:28 | WG2300474 |
| Copper | 73.4 | | 0.487 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| Lead | 2240 | | 0.253 | 0.609 | 1 | 06/12/2024 12:28 | WG2300474 |
| Molybdenum | 5.05 | | 0.133 | 0.609 | 1 | 06/12/2024 12:28 | WG2300474 |
| Nickel | 19.1 | | 0.161 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| Selenium | 2.34 | J | 0.931 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| Silver | U | | 0.155 | 1.22 | 1 | 06/12/2024 12:28 | WG2300474 |
| Thallium | U | | 0.480 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| Vanadium | 32.4 | | 0.617 | 2.44 | 1 | 06/12/2024 12:28 | WG2300474 |
| Zinc | 967 | | 1.01 | 6.09 | 1 | 06/12/2024 12:28 | WG2300474 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 8.35 | T8 | 1.22 | 3.68 | 25 | 06/07/2024 08:36 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.5* | | | *77.0-120* | | *06/07/2024 08:36* | WG2300368 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0144 | 0.0414 | 1 | 06/14/2024 22:20 | WG2304143 |
| PCB 1221 | U | | 0.0144 | 0.0414 | 1 | 06/14/2024 22:20 | WG2304143 |
| PCB 1232 | U | | 0.0144 | 0.0414 | 1 | 06/14/2024 22:20 | WG2304143 |
| PCB 1242 | U | | 0.0144 | 0.0414 | 1 | 06/14/2024 22:20 | WG2304143 |
| PCB 1248 | U | | 0.00899 | 0.0207 | 1 | 06/14/2024 22:20 | WG2304143 |
| PCB 1254 | U | | 0.00899 | 0.0207 | 1 | 06/14/2024 22:20 | WG2304143 |
| PCB 1260 | U | | 0.00899 | 0.0207 | 1 | 06/14/2024 22:20 | WG2304143 |
| *(S) Decachlorobiphenyl* | *114* | | | *10.0-135* | | *06/14/2024 22:20* | WG2304143 |
| *(S) Tetrachloro-m-xylene* | *106* | | | *10.0-139* | | *06/14/2024 22:20* | WG2304143 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | 0.0201 | J | 0.00657 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Acenaphthylene | U | | 0.00571 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Anthracene | 0.139 | | 0.00723 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Benzidine | U | | 0.0763 | 2.03 | 1 | 06/06/2024 14:22 | WG2298678 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 0.112 | | 0.00715 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Benzo(b)fluoranthene | 0.216 | | 0.00757 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Benzo(k)fluoranthene | 0.0646 | | 0.00721 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Benzo(g,h,i)perylene | 0.109 | | 0.00742 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Benzo(a)pyrene | 0.145 | | 0.00754 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0122 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0134 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0175 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0143 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00713 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0141 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Chrysene | 0.113 | | 0.00807 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Dibenz(a,h)anthracene | 0.0286 | J | 0.0112 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0120 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0123 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0121 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0150 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0116 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0133 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Fluoranthene | 0.177 | | 0.00732 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Fluorene | 0.0797 | | 0.00660 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Hexachlorobenzene | U | | 0.0144 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0136 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0213 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Hexachloroethane | U | | 0.0160 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | 0.112 | | 0.0115 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Isophorone | U | | 0.0124 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Naphthalene | 0.392 | | 0.0102 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Nitrobenzene | U | | 0.0141 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0602 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0307 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0135 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Phenanthrene | 0.174 | | 0.00805 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Benzylbutyl phthalate | 0.0358 | J | 0.0127 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | 0.0944 | J | 0.0514 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0139 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Diethyl phthalate | U | | 0.0134 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Dimethyl phthalate | U | | 0.0860 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0274 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Pyrene | 0.164 | | 0.00790 | 0.0406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0127 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0132 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2-Chlorophenol | U | | 0.0134 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0118 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2,4-Dimethylphenol | 0.189 | J | 0.0106 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0920 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0949 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2-Nitrophenol | U | | 0.0145 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 4-Nitrophenol | U | | 0.0127 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Pentachlorophenol | U | | 0.0109 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| Phenol | 0.301 | J | 0.0163 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0130 | 0.406 | 1 | 06/06/2024 14:22 | WG2298678 |
| *(S) 2-Fluorophenol* | *38.4* | | | *12.0-120* | | *06/06/2024 14:22* | WG2298678 |
| *(S) Phenol-d5* | *39.5* | | | *10.0-120* | | *06/06/2024 14:22* | WG2298678 |
| *(S) Nitrobenzene-d5* | *28.1* | | | *10.0-122* | | *06/06/2024 14:22* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *42.5* | | | *15.0-120* | | *06/06/2024 14:22* | WG2298678 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) 2,4,6-Tribromophenol* | *47.5* | | | *10.0-127* | | *06/06/2024 14:22* | WG2298678 |
| *(S) p-Terphenyl-d14* | *51.3* | | | *10.0-120* | | *06/06/2024 14:22* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 90.4 | | 1 | 06/05/2024 09:54 | WG2298756 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 2.33 | | 0.0398 | 0.0885 | 2 | 06/09/2024 16:09 | WG2298791 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 11.2 | | 0.602 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| Arsenic | 12.2 | | 0.573 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| Barium | 271 | | 0.0943 | 0.553 | 1 | 06/12/2024 12:30 | WG2300474 |
| Beryllium | 0.350 | | 0.0349 | 0.221 | 1 | 06/12/2024 12:30 | WG2300474 |
| Cadmium | 0.216 | J | 0.0521 | 0.553 | 1 | 06/12/2024 12:30 | WG2300474 |
| Chromium | 34.9 | | 0.147 | 1.11 | 1 | 06/12/2024 12:30 | WG2300474 |
| Cobalt | 22.6 | | 0.0898 | 1.11 | 1 | 06/12/2024 12:30 | WG2300474 |
| Copper | 131 | | 0.443 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| Lead | 24.3 | | 0.230 | 0.553 | 1 | 06/12/2024 12:30 | WG2300474 |
| Molybdenum | U | | 0.121 | 0.553 | 1 | 06/12/2024 12:30 | WG2300474 |
| Nickel | 41.3 | | 0.146 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| Selenium | 2.51 | | 0.846 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| Silver | U | | 0.141 | 1.11 | 1 | 06/13/2024 09:35 | WG2300474 |
| Thallium | U | | 0.436 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| Vanadium | 72.3 | | 0.560 | 2.21 | 1 | 06/12/2024 12:30 | WG2300474 |
| Zinc | 93.8 | | 0.921 | 5.53 | 1 | 06/12/2024 12:30 | WG2300474 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | T8 | 1.01 | 3.06 | 25 | 06/07/2024 08:59 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *06/07/2024 08:59* | WG2300368 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0446 | 0.0611 | 1 | 06/06/2024 19:29 | WG2300290 |
| Acrylonitrile | U | | 0.00441 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| Benzene | U | | 0.000571 | 0.00122 | 1 | 06/06/2024 19:29 | WG2300290 |
| Bromobenzene | U | | 0.00110 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| Bromodichloromethane | U | | 0.000886 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Bromoform | U | | 0.00143 | 0.0306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Bromomethane | U | | 0.00241 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| n-Butylbenzene | U | | 0.00642 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| sec-Butylbenzene | U | | 0.00352 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| tert-Butylbenzene | U | | 0.00238 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| Carbon tetrachloride | U | | 0.00110 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| Chlorobenzene | U | | 0.000257 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Chlorodibromomethane | U | | 0.000748 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Chloroethane | U | | 0.00208 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| Chloroform | U | | 0.00126 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Chloromethane | U | | 0.00532 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| 2-Chlorotoluene | U | | 0.00106 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 4-Chlorotoluene | U | | 0.000550 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00477 | 0.0306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2-Dibromoethane | U | | 0.000792 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Dibromomethane | U | | 0.000917 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2-Dichlorobenzene | U | | 0.000519 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,3-Dichlorobenzene | U | | 0.000733 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,4-Dichlorobenzene | U | | 0.000856 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| Dichlorodifluoromethane | U | | 0.00197 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,1-Dichloroethane | U | | 0.000600 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2-Dichloroethane | U | | 0.000793 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,1-Dichloroethene | U | | 0.000741 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| cis-1,2-Dichloroethene | U | | 0.000897 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| trans-1,2-Dichloroethene | U | | 0.00127 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2-Dichloropropane | U | | 0.00174 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,1-Dichloropropene | U | | 0.000989 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,3-Dichloropropane | U | | 0.000612 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| cis-1,3-Dichloropropene | U | | 0.000925 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| trans-1,3-Dichloropropene | U | | 0.00139 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 2,2-Dichloropropane | U | | 0.00169 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Di-isopropyl ether | U | | 0.000501 | 0.00122 | 1 | 06/06/2024 19:29 | WG2300290 |
| Ethylbenzene | U | | 0.000901 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Hexachloro-1,3-butadiene | U | | 0.00733 | 0.0306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Isopropylbenzene | U | | 0.000519 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| p-Isopropyltoluene | U | | 0.00312 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 2-Butanone (MEK) | U | | 0.0776 | 0.122 | 1 | 06/06/2024 19:29 | WG2300290 |
| Methylene Chloride | U | | 0.00812 | 0.0306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00279 | 0.0306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Methyl tert-butyl ether | U | | 0.000428 | 0.00122 | 1 | 06/06/2024 19:29 | WG2300290 |
| Naphthalene | U | | 0.00596 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| n-Propylbenzene | U | | 0.00116 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| Styrene | U | | 0.000280 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00116 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000849 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000922 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Tetrachloroethene | U | | 0.00110 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Toluene | U | | 0.00159 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2,3-Trichlorobenzene | U | | 0.00896 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2,4-Trichlorobenzene | U | | 0.00538 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,1,1-Trichloroethane | U | | 0.00113 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,1,2-Trichloroethane | U | | 0.000730 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Trichloroethene | U | | 0.000714 | 0.00122 | 1 | 06/06/2024 19:29 | WG2300290 |
| Trichlorofluoromethane | U | | 0.00101 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2,3-Trichloropropane | U | | 0.00198 | 0.0153 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2,4-Trimethylbenzene | U | | 0.00193 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,2,3-Trimethylbenzene | U | | 0.00193 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| 1,3,5-Trimethylbenzene | U | | 0.00244 | 0.00611 | 1 | 06/06/2024 19:29 | WG2300290 |
| Vinyl chloride | U | | 0.00142 | 0.00306 | 1 | 06/06/2024 19:29 | WG2300290 |
| Xylenes, Total | U | | 0.00108 | 0.00794 | 1 | 06/06/2024 19:29 | WG2300290 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/06/2024 19:29* | WG2300290 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/06/2024 19:29* | WG2300290 |
| *(S) 1,2-Dichloroethane-d4* | *89.3* | | | *70.0-130* | | *06/06/2024 19:29* | WG2300290 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0131 | 0.0376 | 1 | 06/14/2024 22:29 | WG2304143 |
| PCB 1221 | U | | 0.0131 | 0.0376 | 1 | 06/14/2024 22:29 | WG2304143 |
| PCB 1232 | U | | 0.0131 | 0.0376 | 1 | 06/14/2024 22:29 | WG2304143 |
| PCB 1242 | U | | 0.0131 | 0.0376 | 1 | 06/14/2024 22:29 | WG2304143 |
| PCB 1248 | U | | 0.00817 | 0.0188 | 1 | 06/14/2024 22:29 | WG2304143 |
| PCB 1254 | U | | 0.00817 | 0.0188 | 1 | 06/14/2024 22:29 | WG2304143 |
| PCB 1260 | U | | 0.00817 | 0.0188 | 1 | 06/14/2024 22:29 | WG2304143 |
| *(S) Decachlorobiphenyl* | *71.9* | | | *10.0-135* | | *06/14/2024 22:29* | WG2304143 |
| *(S) Tetrachloro-m-xylene* | *103* | | | *10.0-139* | | *06/14/2024 22:29* | WG2304143 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00597 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Acenaphthylene | U | | 0.00519 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Anthracene | U | | 0.00656 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Benzidine | U | | 0.0693 | 1.85 | 1 | 06/06/2024 14:47 | WG2298678 |
| Benzo(a)anthracene | U | | 0.00650 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Benzo(b)fluoranthene | 0.0102 | J | 0.00687 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Benzo(k)fluoranthene | U | | 0.00655 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Benzo(g,h,i)perylene | U | | 0.00674 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Benzo(a)pyrene | 0.00714 | J | 0.00685 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0111 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0122 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0159 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0129 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00647 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0128 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Chrysene | U | | 0.00733 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.0102 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0109 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0112 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0110 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0136 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0106 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0121 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Fluoranthene | 0.00738 | J | 0.00665 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Fluorene | U | | 0.00600 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Hexachlorobenzene | U | | 0.0131 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0124 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0194 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Hexachloroethane | U | | 0.0145 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0104 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Isophorone | U | | 0.0113 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Naphthalene | U | | 0.00925 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Nitrobenzene | U | | 0.0128 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0547 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0279 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0123 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Phenanthrene | U | | 0.00732 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Benzylbutyl phthalate | 0.0167 | J | 0.0115 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0467 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0126 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Diethyl phthalate | U | | 0.0122 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Dimethyl phthalate | U | | 0.0781 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0249 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Pyrene | 0.00833 | J | 0.00717 | 0.0369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0115 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0120 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2-Chlorophenol | U | | 0.0122 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0107 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2,4-Dimethylphenol | U | | 0.00963 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0836 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0862 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2-Nitrophenol | U | | 0.0132 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 4-Nitrophenol | U | | 0.0115 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Pentachlorophenol | U | | 0.00992 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| Phenol | U | | 0.0148 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0118 | 0.369 | 1 | 06/06/2024 14:47 | WG2298678 |
| *(S) 2-Fluorophenol* | *69.9* | | | *12.0-120* | | *06/06/2024 14:47* | WG2298678 |
| *(S) Phenol-d5* | *64.8* | | | *10.0-120* | | *06/06/2024 14:47* | WG2298678 |
| *(S) Nitrobenzene-d5* | *53.6* | | | *10.0-122* | | *06/06/2024 14:47* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *62.7* | | | *15.0-120* | | *06/06/2024 14:47* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *66.1* | | | *10.0-127* | | *06/06/2024 14:47* | WG2298678 |
| *(S) p-Terphenyl-d14* | *70.8* | | | *10.0-120* | | *06/06/2024 14:47* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 93.7 | | 1 | 06/05/2024 09:54 | WG2298756 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Mercury | 0.0294 | J | 0.0192 | 0.0427 | 1 | 06/09/2024 14:20 | WG2298791 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Antimony | 2.06 | J | 0.581 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| Arsenic | 2.09 | J | 0.553 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| Barium | 56.0 | | 0.0910 | 0.534 | 1 | 06/12/2024 12:31 | WG2300474 |
| Beryllium | 0.162 | J | 0.0336 | 0.214 | 1 | 06/12/2024 12:31 | WG2300474 |
| Cadmium | 0.0935 | J | 0.0503 | 0.534 | 1 | 06/12/2024 12:31 | WG2300474 |
| Chromium | 11.1 | | 0.142 | 1.07 | 1 | 06/12/2024 12:31 | WG2300474 |
| Cobalt | 7.02 | | 0.0866 | 1.07 | 1 | 06/12/2024 12:31 | WG2300474 |
| Copper | 3.85 | | 0.427 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| Lead | 6.68 | | 0.222 | 0.534 | 1 | 06/12/2024 12:31 | WG2300474 |
| Molybdenum | U | | 0.116 | 0.534 | 1 | 06/12/2024 12:31 | WG2300474 |
| Nickel | 10.4 | | 0.141 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| Selenium | U | | 0.816 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| Silver | U | | 0.136 | 1.07 | 1 | 06/13/2024 09:36 | WG2300474 |
| Thallium | U | | 0.421 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| Vanadium | 23.9 | | 0.540 | 2.14 | 1 | 06/12/2024 12:31 | WG2300474 |
| Zinc | 18.1 | | 0.888 | 5.34 | 1 | 06/12/2024 12:31 | WG2300474 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.28 | J T8 | 1.17 | 3.51 | 31.3 | 06/07/2024 09:22 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *06/07/2024 09:22* | WG2300368 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0512 | 0.0701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Acrylonitrile | U | | 0.00506 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Benzene | U | | 0.000655 | 0.00140 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Bromobenzene | U | | 0.00127 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Bromodichloromethane | U | | 0.00102 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Bromoform | U | | 0.00164 | 0.0351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Bromomethane | U | | 0.00276 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| n-Butylbenzene | U | | 0.00736 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| sec-Butylbenzene | U | | 0.00404 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| tert-Butylbenzene | U | | 0.00274 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Carbon tetrachloride | U | | 0.00126 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Chlorobenzene | U | | 0.000295 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Chlorodibromomethane | U | | 0.000858 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Chloroethane | U | | 0.00238 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Chloroform | U | | 0.00145 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Chloromethane | U | | 0.00610 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 2-Chlorotoluene | U | | 0.00121 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 4-Chlorotoluene | U | | 0.000632 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00548 | 0.0351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2-Dibromoethane | U | | 0.000909 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Dibromomethane | U | | 0.00105 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2-Dichlorobenzene | U | | 0.000596 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,3-Dichlorobenzene | U | | 0.000841 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,4-Dichlorobenzene | U | | 0.000982 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Dichlorodifluoromethane | U | | 0.00226 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,1-Dichloroethane | U | | 0.000689 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2-Dichloroethane | U | | 0.000910 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,1-Dichloroethene | U | | 0.000849 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| cis-1,2-Dichloroethene | U | | 0.00103 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| trans-1,2-Dichloroethene | U | | 0.00146 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2-Dichloropropane | U | | 0.00200 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,1-Dichloropropene | U | | 0.00113 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,3-Dichloropropane | U | | 0.000702 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| cis-1,3-Dichloropropene | U | | 0.00106 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| trans-1,3-Dichloropropene | U | | 0.00160 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 2,2-Dichloropropane | U | | 0.00194 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Di-isopropyl ether | U | | 0.000576 | 0.00140 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Ethylbenzene | U | | 0.00103 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Hexachloro-1,3-butadiene | U | | 0.00841 | 0.0351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Isopropylbenzene | U | | 0.000596 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| p-Isopropyltoluene | U | | 0.00358 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 2-Butanone (MEK) | U | | 0.0891 | 0.140 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Methylene Chloride | U | | 0.00931 | 0.0351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00320 | 0.0351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Methyl tert-butyl ether | U | | 0.000491 | 0.00140 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Naphthalene | U | | 0.00684 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| n-Propylbenzene | U | | 0.00134 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Styrene | U | | 0.000321 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00134 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000975 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00106 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Tetrachloroethene | U | | 0.00126 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Toluene | 0.00234 | J | 0.00183 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2,3-Trichlorobenzene | U | | 0.0103 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2,4-Trichlorobenzene | U | | 0.00617 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,1,1-Trichloroethane | U | | 0.00129 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,1,2-Trichloroethane | U | | 0.000837 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Trichloroethene | U | | 0.000819 | 0.00140 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Trichlorofluoromethane | U | | 0.00116 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2,3-Trichloropropane | U | | 0.00227 | 0.0175 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2,4-Trimethylbenzene | U | | 0.00222 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,2,3-Trimethylbenzene | U | | 0.00222 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| 1,3,5-Trimethylbenzene | U | | 0.00280 | 0.00701 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Vinyl chloride | U | | 0.00163 | 0.00351 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| Xylenes, Total | U | | 0.00123 | 0.00912 | 1.25 | 06/06/2024 19:48 | WG2300290 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* | | *06/06/2024 19:48* | WG2300290 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/06/2024 19:48* | WG2300290 |
| *(S) 1,2-Dichloroethane-d4* | *85.9* | | | *70.0-130* | | *06/06/2024 19:48* | WG2300290 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 4.47 | | 0.783 | 4.27 | 1 | 06/06/2024 16:17 | WG2299534 |
| C22-C32 Hydrocarbons | 25.4 | | 1.42 | 4.27 | 1 | 06/06/2024 16:17 | WG2299534 |
| C32-C40 Hydrocarbons | 26.3 | | 1.42 | 4.27 | 1 | 06/06/2024 16:17 | WG2299534 |
| *(S) o-Terphenyl* | *58.4* | | | *18.0-148* | | *06/06/2024 16:17* | WG2299534 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.00575 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Acenaphthylene | U | | 0.00501 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Anthracene | U | | 0.00633 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Benzidine | U | | 0.0668 | 1.78 | 1 | 06/06/2024 16:26 | WG2298678 |
| Benzo(a)anthracene | U | | 0.00627 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Benzo(b)fluoranthene | U | | 0.00663 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Benzo(k)fluoranthene | U | | 0.00632 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Benzo(g,h,i)perylene | U | | 0.00650 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Benzo(a)pyrene | U | | 0.00661 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Bis(2-chlorethoxy)methane | U | | 0.0107 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Bis(2-chloroethyl)ether | U | | 0.0117 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0154 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 4-Bromophenyl-phenylether | U | | 0.0125 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2-Chloronaphthalene | U | | 0.00625 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 4-Chlorophenyl-phenylether | U | | 0.0124 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Chrysene | U | | 0.00707 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Dibenz(a,h)anthracene | U | | 0.00985 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 1,2-Dichlorobenzene | U | | 0.0105 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 1,3-Dichlorobenzene | U | | 0.0108 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 1,4-Dichlorobenzene | U | | 0.0106 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 3,3-Dichlorobenzidine | U | | 0.0131 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2,4-Dinitrotoluene | U | | 0.0102 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2,6-Dinitrotoluene | U | | 0.0116 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Fluoranthene | U | | 0.00642 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Fluorene | U | | 0.00579 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Hexachlorobenzene | U | | 0.0126 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Hexachloro-1,3-butadiene | U | | 0.0120 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Hexachlorocyclopentadiene | U | | 0.0187 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Hexachloroethane | U | | 0.0140 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0100 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Isophorone | U | | 0.0109 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Naphthalene | U | | 0.00893 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Nitrobenzene | U | | 0.0124 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| n-Nitrosodimethylamine | U | | 0.0527 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| n-Nitrosodiphenylamine | U | | 0.0269 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| n-Nitrosodi-n-propylamine | U | | 0.0119 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Phenanthrene | U | | 0.00706 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Benzylbutyl phthalate | U | | 0.0111 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0451 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Di-n-butyl phthalate | U | | 0.0122 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Diethyl phthalate | U | | 0.0117 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Dimethyl phthalate | U | | 0.0754 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Di-n-octyl phthalate | U | | 0.0240 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Pyrene | U | | 0.00692 | 0.0356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 1,2,4-Trichlorobenzene | U | | 0.0111 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 4-Chloro-3-methylphenol | U | | 0.0115 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2-Chlorophenol | U | | 0.0117 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2,4-Dichlorophenol | U | | 0.0104 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | U | | 0.00929 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0806 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2,4-Dinitrophenol | U | | 0.0832 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2-Nitrophenol | U | | 0.0127 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 4-Nitrophenol | U | | 0.0111 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Pentachlorophenol | U | | 0.00957 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| Phenol | U | | 0.0143 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| 2,4,6-Trichlorophenol | U | | 0.0114 | 0.356 | 1 | 06/06/2024 16:26 | WG2298678 |
| *(S) 2-Fluorophenol* | *59.1* | | | *12.0-120* | | *06/06/2024 16:26* | WG2298678 |
| *(S) Phenol-d5* | *56.0* | | | *10.0-120* | | *06/06/2024 16:26* | WG2298678 |
| *(S) Nitrobenzene-d5* | *45.8* | | | *10.0-122* | | *06/06/2024 16:26* | WG2298678 |
| *(S) 2-Fluorobiphenyl* | *54.5* | | | *15.0-120* | | *06/06/2024 16:26* | WG2298678 |
| *(S) 2,4,6-Tribromophenol* | *60.1* | | | *10.0-127* | | *06/06/2024 16:26* | WG2298678 |
| *(S) p-Terphenyl-d14* | *64.4* | | | *10.0-120* | | *06/06/2024 16:26* | WG2298678 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 80.7 | | 1 | 06/07/2024 16:04 | WG2299978 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | 1.71 | J T8 | 1.25 | 3.76 | 25.5 | 06/07/2024 11:19 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *06/07/2024 11:19* | WG2300368 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0652 | 0.0894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Acrylonitrile | U | | 0.00645 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Benzene | 0.00121 | J | 0.000835 | 0.00179 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Bromobenzene | U | | 0.00162 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Bromodichloromethane | U | | 0.00130 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Bromoform | U | | 0.00209 | 0.0448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Bromomethane | U | | 0.00352 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| n-Butylbenzene | U | | 0.00938 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| sec-Butylbenzene | U | | 0.00515 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| tert-Butylbenzene | U | | 0.00349 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Carbon tetrachloride | U | | 0.00160 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Chlorobenzene | U | | 0.000376 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Chlorodibromomethane | U | | 0.00109 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Chloroethane | U | | 0.00303 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Chloroform | U | | 0.00185 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Chloromethane | U | | 0.00778 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 2-Chlorotoluene | U | | 0.00155 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 4-Chlorotoluene | U | | 0.000805 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00698 | 0.0448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2-Dibromoethane | U | | 0.00116 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Dibromomethane | U | | 0.00134 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2-Dichlorobenzene | U | | 0.000760 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,3-Dichlorobenzene | U | | 0.00107 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,4-Dichlorobenzene | U | | 0.00125 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Dichlorodifluoromethane | U | | 0.00288 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,1-Dichloroethane | U | | 0.000878 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2-Dichloroethane | U | | 0.00116 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,1-Dichloroethene | U | | 0.00108 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| cis-1,2-Dichloroethene | U | | 0.00131 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| trans-1,2-Dichloroethene | U | | 0.00186 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2-Dichloropropane | U | | 0.00255 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,1-Dichloropropene | U | | 0.00144 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,3-Dichloropropane | U | | 0.000896 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| cis-1,3-Dichloropropene | U | | 0.00135 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| trans-1,3-Dichloropropene | U | | 0.00205 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 2,2-Dichloropropane | U | | 0.00247 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Di-isopropyl ether | U | | 0.000734 | 0.00179 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Ethylbenzene | U | | 0.00132 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Hexachloro-1,3-butadiene | U | | 0.0107 | 0.0448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Isopropylbenzene | U | | 0.000760 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| p-Isopropyltoluene | U | | 0.00456 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 2-Butanone (MEK) | U | | 0.114 | 0.179 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Methylene Chloride | U | | 0.0119 | 0.0448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00408 | 0.0448 | 1.25 | 06/06/2024 20:08 | WG2300290 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000627 | 0.00179 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Naphthalene | U | | 0.00873 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| n-Propylbenzene | U | | 0.00170 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Styrene | U | | 0.000409 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00170 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00124 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00135 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Tetrachloroethene | U | | 0.00160 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Toluene | 0.0113 | | 0.00233 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2,3-Trichlorobenzene | U | | 0.0131 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2,4-Trichlorobenzene | U | | 0.00787 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,1,1-Trichloroethane | U | | 0.00165 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,1,2-Trichloroethane | U | | 0.00107 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Trichloroethene | U | | 0.00104 | 0.00179 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Trichlorofluoromethane | U | | 0.00147 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2,3-Trichloropropane | U | | 0.00289 | 0.0223 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2,4-Trimethylbenzene | U | | 0.00283 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,2,3-Trimethylbenzene | U | | 0.00283 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| 1,3,5-Trimethylbenzene | U | | 0.00358 | 0.00894 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Vinyl chloride | U | | 0.00207 | 0.00448 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| Xylenes, Total | 0.00250 | J | 0.00157 | 0.0116 | 1.25 | 06/06/2024 20:08 | WG2300290 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/06/2024 20:08* | WG2300290 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/06/2024 20:08* | WG2300290 |
| *(S) 1,2-Dichloroethane-d4* | *87.4* | | | *70.0-130* | | *06/06/2024 20:08* | WG2300290 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | | 1 | 06/05/2024 09:54 | WG2298756 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.70 | J T8 | 1.22 | 3.68 | 28.5 | 06/07/2024 11:42 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *06/07/2024 11:42* | WG2300368 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0512 | 0.0701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Acrylonitrile | U | | 0.00506 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Benzene | U | | 0.000654 | 0.00140 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Bromobenzene | U | | 0.00126 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Bromodichloromethane | U | | 0.00102 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Bromoform | U | | 0.00164 | 0.0351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Bromomethane | U | | 0.00277 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| n-Butylbenzene | U | | 0.00736 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| sec-Butylbenzene | U | | 0.00404 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| tert-Butylbenzene | U | | 0.00274 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Carbon tetrachloride | U | | 0.00126 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Chlorobenzene | U | | 0.000295 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Chlorodibromomethane | U | | 0.000858 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Chloroethane | U | | 0.00239 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Chloroform | U | | 0.00144 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Chloromethane | U | | 0.00610 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 2-Chlorotoluene | U | | 0.00121 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 4-Chlorotoluene | U | | 0.000631 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00547 | 0.0351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2-Dibromoethane | U | | 0.000909 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Dibromomethane | U | | 0.00105 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2-Dichlorobenzene | U | | 0.000596 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,3-Dichlorobenzene | U | | 0.000841 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,4-Dichlorobenzene | U | | 0.000982 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Dichlorodifluoromethane | U | | 0.00226 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,1-Dichloroethane | U | | 0.000688 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2-Dichloroethane | U | | 0.000910 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,1-Dichloroethene | U | | 0.000849 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| cis-1,2-Dichloroethene | U | | 0.00103 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| trans-1,2-Dichloroethene | U | | 0.00145 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2-Dichloropropane | U | | 0.00199 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,1-Dichloropropene | U | | 0.00113 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,3-Dichloropropane | U | | 0.000702 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| cis-1,3-Dichloropropene | U | | 0.00106 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| trans-1,3-Dichloropropene | U | | 0.00160 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 2,2-Dichloropropane | U | | 0.00193 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Di-isopropyl ether | U | | 0.000575 | 0.00140 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Ethylbenzene | U | | 0.00103 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Hexachloro-1,3-butadiene | U | | 0.00841 | 0.0351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Isopropylbenzene | U | | 0.000596 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| p-Isopropyltoluene | U | | 0.00357 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 2-Butanone (MEK) | U | | 0.0891 | 0.140 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Methylene Chloride | U | | 0.00931 | 0.0351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00319 | 0.0351 | 1.08 | 06/06/2024 20:27 | WG2300290 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000491 | 0.00140 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Naphthalene | 0.00701 | J | 0.00684 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| n-Propylbenzene | U | | 0.00134 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Styrene | U | | 0.000321 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00132 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000975 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00106 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Tetrachloroethene | U | | 0.00126 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Toluene | U | | 0.00182 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2,3-Trichlorobenzene | U | | 0.0103 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2,4-Trichlorobenzene | U | | 0.00617 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,1,1-Trichloroethane | U | | 0.00129 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,1,2-Trichloroethane | U | | 0.000837 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Trichloroethene | U | | 0.000819 | 0.00140 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Trichlorofluoromethane | U | | 0.00116 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2,3-Trichloropropane | U | | 0.00227 | 0.0175 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2,4-Trimethylbenzene | U | | 0.00222 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,2,3-Trimethylbenzene | U | | 0.00222 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| 1,3,5-Trimethylbenzene | U | | 0.00280 | 0.00701 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Vinyl chloride | U | | 0.00162 | 0.00351 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| Xylenes, Total | U | | 0.00123 | 0.00911 | 1.08 | 06/06/2024 20:27 | WG2300290 |
| *(S) Toluene-d8* | *98.8* | | | *75.0-131* | | *06/06/2024 20:27* | WG2300290 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *06/06/2024 20:27* | WG2300290 |
| *(S) 1,2-Dichloroethane-d4* | *83.8* | | | *70.0-130* | | *06/06/2024 20:27* | WG2300290 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 1.42 | J | 0.846 | 4.62 | 1 | 06/06/2024 15:34 | WG2299534 |
| C22-C32 Hydrocarbons | 3.46 | J | 1.54 | 4.62 | 1 | 06/06/2024 15:34 | WG2299534 |
| C32-C40 Hydrocarbons | 2.89 | J | 1.54 | 4.62 | 1 | 06/06/2024 15:34 | WG2299534 |
| *(S) o-Terphenyl* | *46.5* | | | *18.0-148* | | *06/06/2024 15:34* | WG2299534 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 80.2 | | 1 | 06/07/2024 16:04 | WG2299978 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| TPHG C5 - C12 | U | T8 | 1.27 | 3.83 | 25 | 06/07/2024 12:05 | WG2300368 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *06/07/2024 12:05* | WG2300368 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0559 | 0.0766 | 1 | 06/06/2024 20:47 | WG2300290 |
| Acrylonitrile | U | | 0.00553 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| Benzene | U | | 0.000716 | 0.00153 | 1 | 06/06/2024 20:47 | WG2300290 |
| Bromobenzene | U | | 0.00138 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| Bromodichloromethane | U | | 0.00111 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Bromoform | U | | 0.00179 | 0.0383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Bromomethane | U | | 0.00302 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| n-Butylbenzene | U | | 0.00804 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| sec-Butylbenzene | U | | 0.00441 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| tert-Butylbenzene | U | | 0.00299 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| Carbon tetrachloride | U | | 0.00138 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| Chlorobenzene | U | | 0.000322 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Chlorodibromomethane | U | | 0.000938 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Chloroethane | U | | 0.00260 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| Chloroform | U | | 0.00158 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Chloromethane | U | | 0.00667 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| 2-Chlorotoluene | U | | 0.00133 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 4-Chlorotoluene | U | | 0.000690 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00598 | 0.0383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2-Dibromoethane | U | | 0.000993 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Dibromomethane | U | | 0.00115 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2-Dichlorobenzene | U | | 0.000651 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,3-Dichlorobenzene | U | | 0.000919 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,4-Dichlorobenzene | U | | 0.00107 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| Dichlorodifluoromethane | U | | 0.00247 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,1-Dichloroethane | U | | 0.000752 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2-Dichloroethane | U | | 0.000994 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,1-Dichloroethene | U | | 0.000929 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| cis-1,2-Dichloroethene | U | | 0.00112 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| trans-1,2-Dichloroethene | U | | 0.00159 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2-Dichloropropane | U | | 0.00218 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,1-Dichloropropene | U | | 0.00124 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,3-Dichloropropane | U | | 0.000768 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| cis-1,3-Dichloropropene | U | | 0.00116 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| trans-1,3-Dichloropropene | U | | 0.00175 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 2,2-Dichloropropane | U | | 0.00211 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Di-isopropyl ether | U | | 0.000628 | 0.00153 | 1 | 06/06/2024 20:47 | WG2300290 |
| Ethylbenzene | U | | 0.00113 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Hexachloro-1,3-butadiene | U | | 0.00919 | 0.0383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Isopropylbenzene | U | | 0.000651 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| p-Isopropyltoluene | U | | 0.00391 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 2-Butanone (MEK) | U | | 0.0973 | 0.153 | 1 | 06/06/2024 20:47 | WG2300290 |
| Methylene Chloride | U | | 0.0102 | 0.0383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00349 | 0.0383 | 1 | 06/06/2024 20:47 | WG2300290 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000536 | 0.00153 | 1 | 06/06/2024 20:47 | WG2300290 |
| Naphthalene | U | | 0.00748 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| n-Propylbenzene | U | | 0.00146 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| Styrene | U | | 0.000351 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00145 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00106 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00116 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Tetrachloroethene | U | | 0.00137 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Toluene | U | | 0.00199 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2,3-Trichlorobenzene | U | | 0.0112 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2,4-Trichlorobenzene | U | | 0.00674 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,1,1-Trichloroethane | U | | 0.00141 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,1,2-Trichloroethane | U | | 0.000915 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Trichloroethene | U | | 0.000895 | 0.00153 | 1 | 06/06/2024 20:47 | WG2300290 |
| Trichlorofluoromethane | U | | 0.00127 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2,3-Trichloropropane | U | | 0.00248 | 0.0192 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2,4-Trimethylbenzene | U | | 0.00242 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,2,3-Trimethylbenzene | U | | 0.00242 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| 1,3,5-Trimethylbenzene | U | | 0.00306 | 0.00766 | 1 | 06/06/2024 20:47 | WG2300290 |
| Vinyl chloride | U | | 0.00178 | 0.00383 | 1 | 06/06/2024 20:47 | WG2300290 |
| Xylenes, Total | U | | 0.00135 | 0.00996 | 1 | 06/06/2024 20:47 | WG2300290 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/06/2024 20:47* | WG2300290 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/06/2024 20:47* | WG2300290 |
| *(S) 1,2-Dichloroethane-d4* | *86.4* | | | *70.0-130* | | *06/06/2024 20:47* | WG2300290 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.8 | | 1 | 06/05/2024 09:54 | WG2298756 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0589 | 0.0807 | 1 | 06/06/2024 21:06 | WG2300290 |
| Acrylonitrile | U | | 0.00583 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| Benzene | U | | 0.000754 | 0.00161 | 1 | 06/06/2024 21:06 | WG2300290 |
| Bromobenzene | U | | 0.00145 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| Bromodichloromethane | U | | 0.00117 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Bromoform | U | | 0.00189 | 0.0404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Bromomethane | U | | 0.00318 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| n-Butylbenzene | U | | 0.00847 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| sec-Butylbenzene | U | | 0.00465 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| tert-Butylbenzene | U | | 0.00315 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| Carbon tetrachloride | U | | 0.00145 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| Chlorobenzene | U | | 0.000339 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Chlorodibromomethane | U | | 0.000988 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Chloroethane | U | | 0.00274 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| Chloroform | U | | 0.00166 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Chloromethane | U | | 0.00702 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| 2-Chlorotoluene | U | | 0.00140 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 4-Chlorotoluene | U | | 0.000726 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00629 | 0.0404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2-Dibromoethane | U | | 0.00105 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Dibromomethane | U | | 0.00121 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2-Dichlorobenzene | U | | 0.000686 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,3-Dichlorobenzene | U | | 0.000968 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,4-Dichlorobenzene | U | | 0.00113 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| Dichlorodifluoromethane | U | | 0.00260 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,1-Dichloroethane | U | | 0.000792 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2-Dichloroethane | U | | 0.00105 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,1-Dichloroethene | U | | 0.000978 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| cis-1,2-Dichloroethene | U | | 0.00118 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| trans-1,2-Dichloroethene | U | | 0.00168 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2-Dichloropropane | U | | 0.00229 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,1-Dichloropropene | U | | 0.00131 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,3-Dichloropropane | U | | 0.000809 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| cis-1,3-Dichloropropene | U | | 0.00122 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| trans-1,3-Dichloropropene | U | | 0.00184 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 2,2-Dichloropropane | U | | 0.00223 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Di-isopropyl ether | U | | 0.000662 | 0.00161 | 1 | 06/06/2024 21:06 | WG2300290 |
| Ethylbenzene | U | | 0.00119 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Hexachloro-1,3-butadiene | U | | 0.00968 | 0.0404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Isopropylbenzene | U | | 0.000686 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| p-Isopropyltoluene | U | | 0.00412 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 2-Butanone (MEK) | U | | 0.102 | 0.161 | 1 | 06/06/2024 21:06 | WG2300290 |
| Methylene Chloride | U | | 0.0107 | 0.0404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00368 | 0.0404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Methyl tert-butyl ether | U | | 0.000565 | 0.00161 | 1 | 06/06/2024 21:06 | WG2300290 |
| Naphthalene | U | | 0.00788 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| n-Propylbenzene | U | | 0.00153 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| Styrene | U | | 0.000370 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00153 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00112 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00122 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Tetrachloroethene | U | | 0.00145 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Toluene | 0.00268 | J | 0.00210 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2,3-Trichlorobenzene | U | | 0.0118 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2,4-Trichlorobenzene | U | | 0.00710 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,1,1-Trichloroethane | U | | 0.00149 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,1,2-Trichloroethane | U | | 0.000964 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Trichloroethene | U | | 0.000943 | 0.00161 | 1 | 06/06/2024 21:06 | WG2300290 |
| Trichlorofluoromethane | U | | 0.00133 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2,3-Trichloropropane | U | | 0.00261 | 0.0202 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2,4-Trimethylbenzene | U | | 0.00255 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,2,3-Trimethylbenzene | U | | 0.00255 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| 1,3,5-Trimethylbenzene | U | | 0.00323 | 0.00807 | 1 | 06/06/2024 21:06 | WG2300290 |
| Vinyl chloride | U | | 0.00187 | 0.00404 | 1 | 06/06/2024 21:06 | WG2300290 |
| Xylenes, Total | U | | 0.00142 | 0.0105 | 1 | 06/06/2024 21:06 | WG2300290 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/06/2024 21:06* | WG2300290 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* | | *06/06/2024 21:06* | WG2300290 |
| *(S) 1,2-Dichloroethane-d4* | *85.1* | | | *70.0-130* | | *06/06/2024 21:06* | WG2300290 |

# QUALITY CONTROL SUMMARY

L1742685-01,02,03,05,07

## Method Blank (MB)

(MB) R4077901-1 06/05/24 09:54

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00200 | | | |

## L1742685-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1742685-05 06/05/24 09:54 • (DUP) R4077901-3 06/05/24 09:54

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 86.6 | 86.1 | 1 | 0.587 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4077901-2 06/05/24 09:54

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1742685-04,06

## Method Blank (MB)

(MB) R4078978-1 06/07/24 16:04

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00200 | | | |

## L1742685-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1742685-06 06/07/24 16:04 • (DUP) R4078978-3 06/07/24 16:04

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 80.2 | 81.2 | 1 | 1.25 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4078978-2 06/07/24 16:04

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1742685-01,02,03

## Method Blank (MB)

(MB) R4079230-1 06/09/24 13:07

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4079230-2 06/09/24 13:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.495 | 98.9 | 80.0-120 | |

## L1742368-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742368-02 06/09/24 13:12 • (MS) R4079230-4 06/09/24 13:17 • (MSD) R4079230-5 06/09/24 13:20

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | U | 0.512 | 0.577 | 102 | 115 | 1 | 75.0-125 | | | 12.0 | 20 |

# QUALITY CONTROL SUMMARY

L1742685-01,02,03

## Method Blank (MB)

(MB) R4080795-1 06/12/24 11:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4080795-2 06/12/24 11:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 86.5 | 86.5 | 80.0-120 | |
| Arsenic | 100 | 87.9 | 87.9 | 80.0-120 | |
| Barium | 100 | 90.0 | 90.0 | 80.0-120 | |
| Beryllium | 100 | 88.3 | 88.3 | 80.0-120 | |
| Cadmium | 100 | 86.4 | 86.4 | 80.0-120 | |
| Chromium | 100 | 92.2 | 92.2 | 80.0-120 | |
| Cobalt | 100 | 84.2 | 84.2 | 80.0-120 | |
| Copper | 100 | 91.5 | 91.5 | 80.0-120 | |
| Lead | 100 | 86.9 | 86.9 | 80.0-120 | |
| Molybdenum | 100 | 90.5 | 90.5 | 80.0-120 | |
| Nickel | 100 | 84.9 | 84.9 | 80.0-120 | |
| Selenium | 100 | 87.3 | 87.3 | 80.0-120 | |
| Silver | 20.0 | 16.7 | 83.4 | 80.0-120 | |
| Thallium | 100 | 90.9 | 90.9 | 80.0-120 | |
| Vanadium | 100 | 86.7 | 86.7 | 80.0-120 | |
| Zinc | 100 | 87.7 | 87.7 | 80.0-120 | |

## L1742289-67 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742289-67 06/12/24 11:46 • (MS) R4080795-5 06/12/24 11:51 • (MSD) R4080795-6 06/12/24 11:53

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 110 | 0.852 | 40.1 | 41.3 | 35.8 | 36.8 | 1 | 75.0-125 | J6 | J6 | 2.79 | 20 |
| Arsenic | 110 | 11.7 | 89.8 | 92.1 | 71.1 | 73.2 | 1 | 75.0-125 | J6 | J6 | 2.58 | 20 |
| Barium | 110 | 187 | 263 | 273 | 69.6 | 78.9 | 1 | 75.0-125 | J6 | | 3.81 | 20 |
| Beryllium | 110 | 0.602 | 82.2 | 86.5 | 74.3 | 78.2 | 1 | 75.0-125 | J6 | | 5.14 | 20 |
| Cadmium | 110 | 0.301 | 80.9 | 83.4 | 73.4 | 75.6 | 1 | 75.0-125 | J6 | | 2.94 | 20 |
| Chromium | 110 | 58.9 | 132 | 137 | 66.9 | 71.0 | 1 | 75.0-125 | J6 | J6 | 3.31 | 20 |
| Cobalt | 110 | 27.1 | 93.3 | 98.3 | 60.3 | 64.8 | 1 | 75.0-125 | J6 | J6 | 5.16 | 20 |
| Copper | 110 | 37.8 | 118 | 121 | 73.0 | 75.5 | 1 | 75.0-125 | J6 | | 2.31 | 20 |
| Lead | 110 | 14.1 | 94.6 | 97.1 | 73.3 | 75.5 | 1 | 75.0-125 | J6 | | 2.58 | 20 |
| Molybdenum | 110 | 1.09 | 79.5 | 82.1 | 71.4 | 73.8 | 1 | 75.0-125 | J6 | J6 | 3.24 | 20 |
| Nickel | 110 | 68.1 | 128 | 130 | 54.8 | 56.5 | 1 | 75.0-125 | J6 | J6 | 1.44 | 20 |
| Selenium | 110 | 0.954 | 88.0 | 91.0 | 79.3 | 82.0 | 1 | 75.0-125 | | | 3.29 | 20 |
| Silver | 22.0 | U | 9.89 | 10.5 | 45.0 | 47.7 | 1 | 75.0-125 | J6 | J6 | 5.71 | 20 |
| Thallium | 110 | U | 86.3 | 89.6 | 78.6 | 81.5 | 1 | 75.0-125 | | | 3.66 | 20 |
| Vanadium | 110 | 62.5 | 136 | 143 | 66.7 | 73.1 | 1 | 75.0-125 | J6 | J6 | 5.06 | 20 |
| Zinc | 110 | 75.3 | 148 | 150 | 66.4 | 68.0 | 1 | 75.0-125 | J6 | J6 | 1.20 | 20 |

## Method Blank (MB)

(MB) R4078688-5 06/07/24 03:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078688-1 06/06/24 22:36 • (LCSD) R4078688-2 06/06/24 22:59

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.55 | 4.18 | 91.0 | 83.6 | 72.0-125 | | | 8.48 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *100* | *98.2* | *77.0-120* | | | | |

## L1740668-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-12 06/07/24 08:13 • (MS) R4078688-6 06/07/24 13:37 • (MSD) R4078688-7 06/07/24 14:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 151 | 1.52 | 154 | 170 | 101 | 112 | 25 | 10.0-141 | | | 9.81 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *102* | *104* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4078474-3 06/06/24 19:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4078474-3 06/06/24 19:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *86.2* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078474-1 06/06/24 17:51 • (LCSD) R4078474-2 06/06/24 18:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.561 | 0.578 | 89.8 | 92.5 | 10.0-160 | | | 2.99 | 31 |
| Acrylonitrile | 0.625 | 0.643 | 0.668 | 103 | 107 | 45.0-153 | | | 3.81 | 22 |
| Benzene | 0.125 | 0.134 | 0.131 | 107 | 105 | 70.0-123 | | | 2.26 | 20 |
| Bromobenzene | 0.125 | 0.132 | 0.130 | 106 | 104 | 73.0-121 | | | 1.53 | 20 |
| Bromodichloromethane | 0.125 | 0.131 | 0.126 | 105 | 101 | 73.0-121 | | | 3.89 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078474-1 06/06/24 17:51 • (LCSD) R4078474-2 06/06/24 18:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.121 | 0.129 | 96.8 | 103 | 64.0-132 | | | 6.40 | 20 |
| Bromomethane | 0.125 | 0.104 | 0.101 | 83.2 | 80.8 | 56.0-147 | | | 2.93 | 20 |
| n-Butylbenzene | 0.125 | 0.154 | 0.148 | 123 | 118 | 68.0-135 | | | 3.97 | 20 |
| sec-Butylbenzene | 0.125 | 0.139 | 0.139 | 111 | 111 | 74.0-130 | | | 0.000 | 20 |
| tert-Butylbenzene | 0.125 | 0.139 | 0.134 | 111 | 107 | 75.0-127 | | | 3.66 | 20 |
| Carbon tetrachloride | 0.125 | 0.145 | 0.144 | 116 | 115 | 66.0-128 | | | 0.692 | 20 |
| Chlorobenzene | 0.125 | 0.139 | 0.140 | 111 | 112 | 76.0-128 | | | 0.717 | 20 |
| Chlorodibromomethane | 0.125 | 0.141 | 0.133 | 113 | 106 | 74.0-127 | | | 5.84 | 20 |
| Chloroethane | 0.125 | 0.123 | 0.118 | 98.4 | 94.4 | 61.0-134 | | | 4.15 | 20 |
| Chloroform | 0.125 | 0.134 | 0.133 | 107 | 106 | 72.0-123 | | | 0.749 | 20 |
| Chloromethane | 0.125 | 0.132 | 0.129 | 106 | 103 | 51.0-138 | | | 2.30 | 20 |
| 2-Chlorotoluene | 0.125 | 0.140 | 0.136 | 112 | 109 | 75.0-124 | | | 2.90 | 20 |
| 4-Chlorotoluene | 0.125 | 0.128 | 0.123 | 102 | 98.4 | 75.0-124 | | | 3.98 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.106 | 0.106 | 84.8 | 84.8 | 59.0-130 | | | 0.000 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.137 | 0.134 | 110 | 107 | 74.0-128 | | | 2.21 | 20 |
| Dibromomethane | 0.125 | 0.138 | 0.139 | 110 | 111 | 75.0-122 | | | 0.722 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.138 | 0.134 | 110 | 107 | 76.0-124 | | | 2.94 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.141 | 0.137 | 113 | 110 | 76.0-125 | | | 2.88 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.136 | 0.134 | 109 | 107 | 77.0-121 | | | 1.48 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.137 | 0.136 | 110 | 109 | 43.0-156 | | | 0.733 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.133 | 0.134 | 106 | 107 | 70.0-127 | | | 0.749 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.125 | 0.121 | 100 | 96.8 | 65.0-131 | | | 3.25 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.137 | 0.135 | 110 | 108 | 65.0-131 | | | 1.47 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.146 | 0.141 | 117 | 113 | 73.0-125 | | | 3.48 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.143 | 0.141 | 114 | 113 | 71.0-125 | | | 1.41 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.130 | 0.131 | 104 | 105 | 74.0-125 | | | 0.766 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.140 | 0.137 | 112 | 110 | 73.0-125 | | | 2.17 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.138 | 0.134 | 110 | 107 | 80.0-125 | | | 2.94 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.135 | 0.132 | 108 | 106 | 76.0-127 | | | 2.25 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.138 | 0.131 | 110 | 105 | 73.0-127 | | | 5.20 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.130 | 0.127 | 104 | 102 | 59.0-135 | | | 2.33 | 20 |
| Di-isopropyl ether | 0.125 | 0.128 | 0.131 | 102 | 105 | 60.0-136 | | | 2.32 | 20 |
| Ethylbenzene | 0.125 | 0.143 | 0.143 | 114 | 114 | 74.0-126 | | | 0.000 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.151 | 0.143 | 121 | 114 | 57.0-150 | | | 5.44 | 20 |
| Isopropylbenzene | 0.125 | 0.146 | 0.145 | 117 | 116 | 72.0-127 | | | 0.687 | 20 |
| p-Isopropyltoluene | 0.125 | 0.144 | 0.144 | 115 | 115 | 72.0-133 | | | 0.000 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.714 | 0.722 | 114 | 116 | 30.0-160 | | | 1.11 | 24 |
| Methylene Chloride | 0.125 | 0.138 | 0.138 | 110 | 110 | 68.0-123 | | | 0.000 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.614 | 0.620 | 98.2 | 99.2 | 56.0-143 | | | 0.972 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.135 | 0.135 | 108 | 108 | 66.0-132 | | | 0.000 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4078474-1 06/06/24 17:51 • (LCSD) R4078474-2 06/06/24 18:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.144 | 0.151 | 115 | 121 | 59.0-130 | | | 4.75 | 20 |
| n-Propylbenzene | 0.125 | 0.134 | 0.131 | 107 | 105 | 74.0-126 | | | 2.26 | 20 |
| Styrene | 0.125 | 0.145 | 0.141 | 116 | 113 | 72.0-127 | | | 2.80 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.140 | 0.141 | 112 | 113 | 74.0-129 | | | 0.712 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.112 | 0.107 | 89.6 | 85.6 | 68.0-128 | | | 4.57 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.151 | 0.145 | 121 | 116 | 61.0-139 | | | 4.05 | 20 |
| Tetrachloroethene | 0.125 | 0.159 | 0.152 | 127 | 122 | 70.0-136 | | | 4.50 | 20 |
| Toluene | 0.125 | 0.137 | 0.131 | 110 | 105 | 75.0-121 | | | 4.48 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.156 | 0.154 | 125 | 123 | 59.0-139 | | | 1.29 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.156 | 0.151 | 125 | 121 | 62.0-137 | | | 3.26 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.149 | 0.148 | 119 | 118 | 69.0-126 | | | 0.673 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.136 | 0.138 | 109 | 110 | 78.0-123 | | | 1.46 | 20 |
| Trichloroethene | 0.125 | 0.134 | 0.135 | 107 | 108 | 76.0-126 | | | 0.743 | 20 |
| Trichlorofluoromethane | 0.125 | 0.147 | 0.146 | 118 | 117 | 61.0-142 | | | 0.683 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.126 | 0.130 | 101 | 104 | 67.0-129 | | | 3.12 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.141 | 0.138 | 113 | 110 | 70.0-126 | | | 2.15 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.134 | 0.133 | 107 | 106 | 74.0-124 | | | 0.749 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.139 | 0.139 | 111 | 111 | 73.0-127 | | | 0.000 | 20 |
| Vinyl chloride | 0.125 | 0.130 | 0.125 | 104 | 100 | 63.0-134 | | | 3.92 | 20 |
| Xylenes, Total | 0.375 | 0.423 | 0.418 | 113 | 111 | 72.0-127 | | | 1.19 | 20 |
| *(S) Toluene-d8* | | | | *99.4* | *101* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *105* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *92.9* | *94.5* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4078216-1 06/06/24 13:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *92.6* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4078216-2 06/06/24 14:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 22.2 | 88.8 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.9 | 71.6 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *67.9* | *18.0-148* | |

## L1739342-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739342-28 06/06/24 19:28 • (MS) R4078216-3 06/06/24 19:42 • (MSD) R4078216-4 06/06/24 19:57

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 24.8 | U | U | U | 0.000 | 0.000 | 100 | 50.0-150 | J6 | J6 | 0.000 | 20 |
| C22-C32 Hydrocarbons | 24.8 | 1060 | 983 | 1000 | 0.000 | 0.000 | 100 | 50.0-150 | V | V | 2.16 | 20 |
| *(S) o-Terphenyl* | | | | | *90.3* | *88.6* | | *18.0-148* | J7 | J7 | | |

**Sample Narrative:**

OS: Cannot run at lower dilution due to viscosity of extract

# QUALITY CONTROL SUMMARY

L1742685-01,02

## Method Blank (MB)

(MB) R4082843-1 06/14/24 20:28

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *117* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *117* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4082843-2 06/14/24 20:38

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.206 | 123 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.219 | 131 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *126* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *123* | *10.0-139* | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/14/24 21:24 • (MS) R4082843-3 06/14/24 21:33 • (MSD) R4082843-4 06/14/24 21:43

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.201 | U | 0.588 | 0.389 | 293 | 195 | 1 | 10.0-160 | J5 P | J3 J5 P | 40.6 | 37 |
| PCB 1260 | 0.201 | U | 0.156 | 0.190 | 77.6 | 95.1 | 1 | 10.0-160 | P | P | 19.7 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *83.8* | *79.7* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *86.2* | *75.0* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R4078735-2 06/06/24 10:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

## Method Blank (MB)

(MB) R4078735-2 06/06/24 10:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *60.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *57.5* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *46.8* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *54.7* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *48.6* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *64.9* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.460 | 69.1 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.505 | 75.8 | 40.0-120 | |
| Anthracene | 0.666 | 0.520 | 78.1 | 42.0-120 | |
| Benzidine | 1.33 | 0.244 | 18.3 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.553 | 83.0 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.511 | 76.7 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.491 | 73.7 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.573 | 86.0 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.538 | 80.8 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.359 | 53.9 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.425 | 63.8 | 16.0-120 | |

# QUALITY CONTROL SUMMARY

L1742685-01,02,03

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.429 | 64.4 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.511 | 76.7 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.436 | 65.5 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.498 | 74.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.514 | 77.2 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.596 | 89.5 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.435 | 65.3 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.428 | 64.3 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.454 | 68.2 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.917 | 68.9 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.523 | 78.5 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.524 | 78.7 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.522 | 78.4 | 44.0-120 | |
| Fluorene | 0.666 | 0.470 | 70.6 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.480 | 72.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.375 | 56.3 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.373 | 56.0 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.427 | 64.1 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.640 | 96.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.369 | 55.4 | 23.0-120 | |
| Naphthalene | 0.666 | 0.379 | 56.9 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.347 | 52.1 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.338 | 50.8 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.458 | 68.8 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.428 | 64.3 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.491 | 73.7 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.559 | 83.9 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.567 | 85.1 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.508 | 76.3 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.522 | 78.4 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.498 | 74.8 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.561 | 84.2 | 40.0-120 | |
| Pyrene | 0.666 | 0.531 | 79.7 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.391 | 58.7 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.408 | 61.3 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.469 | 70.4 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.413 | 62.0 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.366 | 55.0 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.626 | 94.0 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.434 | 65.2 | 10.0-120 | |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Laboratory Control Sample (LCS)

(LCS) R4078735-1 06/06/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.443 | 66.5 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.515 | 77.3 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.351 | 52.7 | 29.0-120 | |
| Phenol | 0.666 | 0.450 | 67.6 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.479 | 71.9 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *76.9* | *12.0-120* | |
| *(S) Phenol-d5* | | | *71.0* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *48.9* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *69.7* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *67.7* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *78.4* | *10.0-120* | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.798 | 0.00660 | 0.428 | 0.393 | 52.8 | 48.4 | 1 | 18.0-120 | | | 8.59 | 32 |
| Acenaphthylene | 0.798 | U | 0.437 | 0.417 | 54.7 | 52.3 | 1 | 25.0-120 | | | 4.56 | 32 |
| Anthracene | 0.798 | 0.00737 | 0.515 | 0.442 | 63.6 | 54.4 | 1 | 22.0-120 | | | 15.3 | 29 |
| Benzidine | 1.59 | U | U | U | 0.000 | 0.000 | 1 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.798 | 0.129 | 0.745 | 0.535 | 77.1 | 50.9 | 1 | 25.0-120 | | J3 | 32.7 | 29 |
| Benzo(b)fluoranthene | 0.798 | 0.206 | 0.829 | 0.529 | 78.0 | 40.5 | 1 | 19.0-122 | | J3 | 44.1 | 31 |
| Benzo(k)fluoranthene | 0.798 | 0.0623 | 0.579 | 0.438 | 64.8 | 47.1 | 1 | 23.0-120 | | | 27.8 | 30 |
| Benzo(g,h,i)perylene | 0.798 | 0.118 | 0.688 | 0.482 | 71.4 | 45.6 | 1 | 10.0-120 | | J3 | 35.2 | 33 |
| Benzo(a)pyrene | 0.798 | 0.151 | 0.762 | 0.521 | 76.5 | 46.3 | 1 | 24.0-120 | | J3 | 37.6 | 30 |
| Bis(2-chlorethoxy)methane | 0.798 | U | 0.224 | 0.262 | 28.0 | 32.8 | 1 | 10.0-120 | J | J | 15.5 | 34 |
| Bis(2-chloroethyl)ether | 0.798 | U | 0.273 | 0.313 | 34.1 | 39.2 | 1 | 10.0-120 | J | J | 13.7 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.798 | U | 0.235 | 0.307 | 29.4 | 38.4 | 1 | 10.0-120 | J | J | 26.5 | 40 |
| 4-Bromophenyl-phenylether | 0.798 | U | 0.511 | 0.486 | 64.0 | 60.8 | 1 | 27.0-120 | | | 5.13 | 30 |
| 2-Chloronaphthalene | 0.798 | U | 0.360 | 0.346 | 45.1 | 43.3 | 1 | 20.0-120 | | | 4.14 | 32 |
| 4-Chlorophenyl-phenylether | 0.798 | U | 0.481 | 0.447 | 60.2 | 55.9 | 1 | 24.0-120 | | | 7.35 | 29 |
| Chrysene | 0.798 | 0.193 | 0.819 | 0.554 | 78.4 | 45.1 | 1 | 21.0-120 | | J3 | 38.7 | 29 |
| Dibenz(a,h)anthracene | 0.798 | 0.0340 | 0.570 | 0.459 | 67.1 | 53.2 | 1 | 10.0-120 | | | 21.5 | 32 |
| 1,2-Dichlorobenzene | 0.798 | U | 0.231 | 0.291 | 29.0 | 36.4 | 1 | 10.0-120 | J | J | 22.8 | 38 |
| 1,3-Dichlorobenzene | 0.798 | U | 0.221 | 0.285 | 27.7 | 35.7 | 1 | 10.0-120 | J | J | 25.0 | 40 |
| 1,4-Dichlorobenzene | 0.798 | U | 0.245 | 0.315 | 30.6 | 39.5 | 1 | 10.0-120 | J | J | 25.2 | 39 |
| 3,3-Dichlorobenzidine | 1.59 | U | 0.773 | 0.773 | 48.5 | 48.5 | 1 | 10.0-120 | | | 0.000 | 34 |
| 2,4-Dinitrotoluene | 0.798 | U | 0.427 | 0.454 | 53.5 | 56.9 | 1 | 30.0-120 | | | 6.08 | 31 |

# QUALITY CONTROL SUMMARY

L1742685-01,02,03

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.798 | U | 0.421 | 0.427 | 52.7 | 53.5 | 1 | 25.0-120 | | | 1.43 | 31 |
| Fluoranthene | 0.798 | 0.119 | 0.717 | 0.538 | 74.9 | 52.5 | 1 | 18.0-126 | | | 28.5 | 32 |
| Fluorene | 0.798 | 0.00824 | 0.461 | 0.419 | 56.7 | 51.4 | 1 | 25.0-120 | | | 9.68 | 30 |
| Hexachlorobenzene | 0.798 | U | 0.484 | 0.426 | 60.7 | 53.4 | 1 | 27.0-120 | | | 12.8 | 28 |
| Hexachloro-1,3-butadiene | 0.798 | U | 0.254 | 0.288 | 31.9 | 36.1 | 1 | 10.0-120 | J | J | 12.6 | 38 |
| Hexachlorocyclopentadiene | 0.798 | U | 0.0301 | 0.0651 | 3.77 | 8.16 | 1 | 10.0-120 | J J6 | J J3 J6 | 73.7 | 40 |
| Hexachloroethane | 0.798 | U | 0.214 | 0.305 | 26.8 | 38.3 | 1 | 10.0-120 | J | J | 35.1 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.798 | 0.129 | 0.793 | 0.566 | 83.2 | 54.7 | 1 | 10.0-120 | | J3 | 33.5 | 32 |
| Isophorone | 0.798 | U | 0.236 | 0.273 | 29.6 | 34.1 | 1 | 13.0-120 | J | J | 14.4 | 34 |
| Naphthalene | 0.798 | 0.0107 | 0.260 | 0.291 | 31.3 | 35.1 | 1 | 10.0-120 | | | 11.0 | 35 |
| Nitrobenzene | 0.798 | U | 0.191 | 0.248 | 23.9 | 31.1 | 1 | 10.0-120 | J | J | 26.0 | 36 |
| n-Nitrosodimethylamine | 0.798 | U | 0.163 | 0.212 | 20.4 | 26.5 | 1 | 10.0-127 | J | J | 26.0 | 40 |
| n-Nitrosodiphenylamine | 0.798 | U | 0.462 | 0.420 | 57.9 | 52.6 | 1 | 17.0-120 | | | 9.66 | 29 |
| n-Nitrosodi-n-propylamine | 0.798 | U | 0.248 | 0.293 | 31.1 | 36.7 | 1 | 10.0-120 | J | J | 16.6 | 37 |
| Phenanthrene | 0.798 | 0.0555 | 0.571 | 0.467 | 64.5 | 51.6 | 1 | 17.0-120 | | | 19.9 | 31 |
| Benzylbutyl phthalate | 0.798 | U | 0.534 | 0.471 | 66.9 | 59.0 | 1 | 23.0-120 | | | 12.6 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.798 | 0.103 | 0.664 | 0.540 | 70.4 | 54.8 | 1 | 17.0-126 | | | 20.6 | 30 |
| Di-n-butyl phthalate | 0.798 | U | 0.495 | 0.443 | 62.0 | 55.5 | 1 | 30.0-120 | | | 11.2 | 29 |
| Diethyl phthalate | 0.798 | U | 0.493 | 0.469 | 61.7 | 58.7 | 1 | 26.0-120 | | | 5.06 | 28 |
| Dimethyl phthalate | 0.798 | U | 0.428 | 0.405 | 53.7 | 50.8 | 1 | 25.0-120 | | J | 5.55 | 29 |
| Di-n-octyl phthalate | 0.798 | U | 0.540 | 0.504 | 67.7 | 63.1 | 1 | 21.0-123 | | | 6.99 | 29 |
| Pyrene | 0.798 | 0.153 | 0.744 | 0.537 | 73.9 | 48.0 | 1 | 16.0-121 | | J3 | 32.3 | 32 |
| 1,2,4-Trichlorobenzene | 0.798 | U | 0.269 | 0.296 | 33.7 | 37.0 | 1 | 12.0-120 | J | J | 9.48 | 37 |
| 4-Chloro-3-methylphenol | 0.798 | U | 0.406 | 0.359 | 50.9 | 45.0 | 1 | 15.0-120 | | J | 12.4 | 30 |
| 2-Chlorophenol | 0.798 | U | 0.269 | 0.330 | 33.7 | 41.3 | 1 | 15.0-120 | J | J | 20.3 | 37 |
| 2,4-Dichlorophenol | 0.798 | U | 0.336 | 0.341 | 42.1 | 42.7 | 1 | 20.0-120 | J | J | 1.44 | 31 |
| 2,4-Dimethylphenol | 0.798 | U | 0.302 | 0.305 | 37.8 | 38.3 | 1 | 10.0-120 | J | J | 1.20 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.798 | U | 0.523 | 0.494 | 65.5 | 61.9 | 1 | 10.0-120 | | | 5.74 | 39 |
| 2,4-Dinitrophenol | 0.798 | U | 0.451 | 0.372 | 56.6 | 46.6 | 1 | 10.0-121 | | J | 19.2 | 40 |
| 2-Nitrophenol | 0.798 | U | 0.262 | 0.330 | 32.8 | 41.3 | 1 | 12.0-120 | J | J | 23.0 | 39 |
| 4-Nitrophenol | 0.798 | U | 0.511 | 0.483 | 64.0 | 60.5 | 1 | 10.0-137 | | | 5.63 | 32 |
| Pentachlorophenol | 0.798 | U | 0.409 | 0.341 | 51.2 | 42.7 | 1 | 10.0-160 | | J | 18.2 | 31 |
| Phenol | 0.798 | U | 0.277 | 0.333 | 34.8 | 41.8 | 1 | 12.0-120 | J | J | 18.3 | 38 |
| 2,4,6-Trichlorophenol | 0.798 | U | 0.432 | 0.411 | 54.1 | 51.5 | 1 | 19.0-120 | | | 4.91 | 32 |
| *(S) 2-Fluorophenol* | | | | | *34.5* | *43.7* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *37.2* | *43.9* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *22.8* | *30.5* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *45.1* | *44.8* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *59.5* | *54.1* | | *10.0-127* | | | | |

## L1740668-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740668-22 06/06/24 12:42 • (MS) R4078735-3 06/06/24 13:07 • (MSD) R4078735-4 06/06/24 13:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *59.8* | *54.0* | | *10.0-120* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |
| T8 | Sample(s) received past/too close to holding time expiration. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Roux - Oakland, CA

555 12th Street
Suite 250
Oakland. CA 94607

Billing Information:
Accounts Payable
555 12th Street.
Suite 250
Oakland, CA 94607

Pres Chk

Report to: Josh Osborne

Email To: josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description: AB&I Redevelopment

City/State Collected: Oakland, CA

Please Circle: (PT) MT CT ET

Phone: 415-967-6000

Client Project # Roux Associates Inc

Lab Project # ROUXOCA-CA

Collected by (print): Dylan B

Site/Facility ID # ABI Foundry

P.O. # 1793,0030S000

Collected by (signature):

Rush? (Lab MUST Be Notified)
___Same Day ___Five Day
___Next Day ___5 Day (Rad Only)
___Two Day ___10 Day (Rad Only)
___Three Day

Quote # P1076441

Date Results Needed

Immediately Packed on Ice N___ Y X

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/UC-B4-1-1.0 | Grab | SS | 1 | 5/23/24 | 1545 | 24 | O | O | ● | ● | ● | | | -01 |
| G/UC-B4-1-2.0 | | SS | 2 | | 1550 | | O | O | ● | ● | ● | ● | | -02 |
| G/UC-B4-1-3.0 | | SS | 3 | | 1600 | | ● | ● | ● | O | ● | O | | -03 |
| G/UC-B4-1-4.0 | | SS | 4 | | 1605 | | O | O | O | O | O | O | | -04 |
| G/UC-B4-1-5.0 | | SS | 5 | | 1613 | | ● | ● | O | O | O | ● | | -05 |
| G/UC-B4-1-8.0 | | SS | 8 | | 1605 | | O | O | O | O | O | O | | -06 |
| G/UC-B4-1-10.0 | ↓ | SS | 10 | ↓ | 1615 | ↓ | O | O | O | O | O | ● | | -07 |
| | | SS | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | |

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

L1407666

SDG #

Table #

Acctnum: ROUXOCA

Template: T253291

Prelogin: P1076441

PM: 550 - Jennifer Gamblin

PB:

Shipped Via: FedEX Ground

H120

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: ● = Analyze
O = Hold

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Samples returned via: __UPS __FedEx __Courier _____

Tracking #

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 6°C Bottles Received: 2,3,4,2,1=2,4 | |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) Easton Orum | Date: 5/25/24 Time: 0900 | Hold: Condition: NCF / OK |

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1745043 |
| Samples Received: | 05/30/2024 |
| Project Number: | |
| Description: | AB&I Redevelopment |

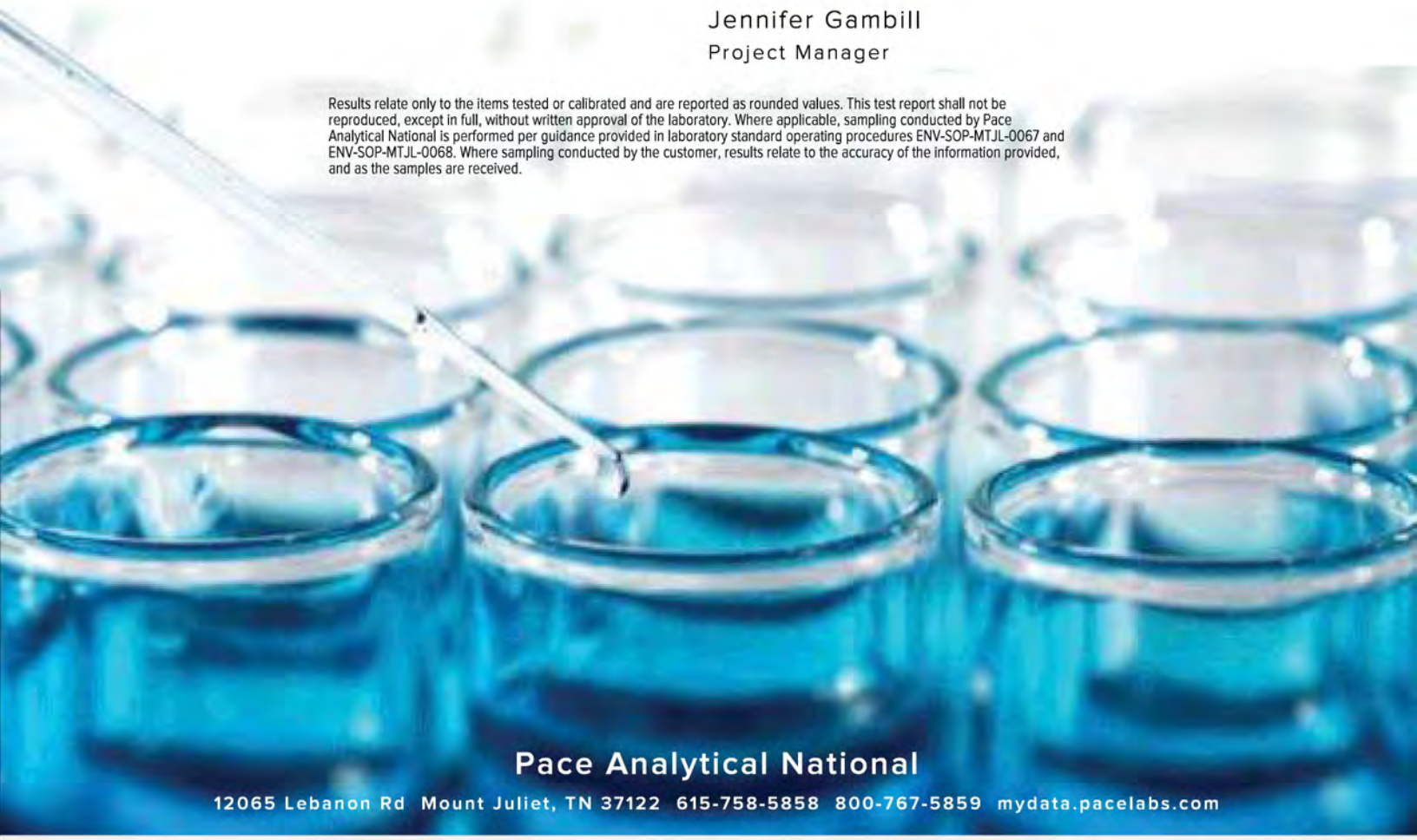
Report To:

Joshua Osborne
555 12th Street
Suite 250
Oakland, CA 94607

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## BS-F1-1-1.0 L1745043-01 Solid

Collected by | Collected date/time: 05/28/24 15:55 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2302234 | 1 | 06/10/24 14:57 | 06/10/24 15:02 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2302140 | 1 | 06/10/24 11:37 | 06/10/24 14:36 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2302184 | 1 | 06/10/24 12:53 | 06/11/24 10:16 | CCE | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302398 | 25 | 05/28/24 15:55 | 06/11/24 01:15 | CDD | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2301365 | 1 | 06/11/24 07:26 | 06/11/24 14:46 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 10 | 06/10/24 16:37 | 06/11/24 07:31 | ALM | Mt. Juliet, TN |

## BS-F1-1-2.0 L1745043-02 Solid

Collected by | Collected date/time: 05/28/24 16:05 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2302234 | 1 | 06/10/24 14:57 | 06/10/24 15:02 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2302140 | 1 | 06/10/24 11:37 | 06/10/24 14:51 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2302184 | 1 | 06/10/24 12:53 | 06/11/24 10:26 | CCE | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302398 | 25 | 05/28/24 16:05 | 06/11/24 01:36 | CDD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302353 | 1 | 05/28/24 16:05 | 06/10/24 19:21 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2301365 | 1 | 06/11/24 07:26 | 06/11/24 14:56 | RDH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 10 | 06/10/24 16:37 | 06/11/24 08:12 | ALM | Mt. Juliet, TN |

## BS-F1-1-3.0 L1745043-03 Solid

Collected by | Collected date/time: 05/28/24 16:10 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2302234 | 1 | 06/10/24 14:57 | 06/10/24 15:02 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2302140 | 1 | 06/10/24 11:37 | 06/10/24 14:49 | AKB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2302184 | 1 | 06/10/24 12:53 | 06/11/24 10:28 | CCE | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302398 | 25 | 05/28/24 16:10 | 06/11/24 01:58 | CDD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302353 | 1 | 05/28/24 16:10 | 06/10/24 19:40 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 5 | 06/10/24 16:47 | 06/11/24 17:13 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2301591 | 2 | 06/10/24 16:37 | 06/11/24 11:12 | ALM | Mt. Juliet, TN |

## BS-F1-1-4.0 L1745043-04 Solid

Collected by | Collected date/time: 05/28/24 16:15 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2302234 | 1 | 06/10/24 14:57 | 06/10/24 15:02 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302398 | 25 | 05/28/24 16:15 | 06/11/24 02:21 | CDD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302353 | 1 | 05/28/24 16:15 | 06/10/24 19:59 | DWR | Mt. Juliet, TN |

## BS-F1-1-5.0 L1745043-05 Solid

Collected by | Collected date/time: 05/28/24 16:20 | Received date/time: 05/30/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2302234 | 1 | 06/10/24 14:57 | 06/10/24 15:02 | CMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2302398 | 25 | 05/28/24 16:20 | 06/11/24 02:42 | CDD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2302353 | 1 | 05/28/24 16:20 | 06/10/24 20:18 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2302178 | 1 | 06/10/24 16:47 | 06/11/24 15:24 | JAS | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 06/30/24 18:05
Level II Report - Version 2: 08/16/24 10:52

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Mercury by Method 7471A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-F1-1-1.0 | L1745043-01 | Mercury | 0.155 | | 0.0197 | 0.0438 | 1 | 06/10/2024 14:36 | WG2302140 |
| BS-F1-1-2.0 | L1745043-02 | Mercury | 0.0657 | | 0.0197 | 0.0437 | 1 | 06/10/2024 14:51 | WG2302140 |
| BS-F1-1-3.0 | L1745043-03 | Mercury | 0.0904 | | 0.0208 | 0.0462 | 1 | 06/10/2024 14:49 | WG2302140 |

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-F1-1-1.0 | L1745043-01 | Antimony | 8.37 | J6 | 0.595 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Arsenic | 7.19 | | 0.567 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Barium | 163 | | 0.0932 | 0.547 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Beryllium | 0.165 | J | 0.0345 | 0.219 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Cadmium | 0.409 | J | 0.0515 | 0.547 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Chromium | 37.2 | | 0.146 | 1.09 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Cobalt | 16.6 | | 0.0887 | 1.09 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Copper | 32.1 | | 0.438 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Lead | 99.3 | | 0.228 | 0.547 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Molybdenum | 0.663 | | 0.119 | 0.547 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Nickel | 35.9 | | 0.144 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Silver | 0.386 | J | 0.139 | 1.09 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Vanadium | 70.5 | | 0.554 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-1.0 | L1745043-01 | Zinc | 117 | | 0.910 | 5.47 | 1 | 06/11/2024 10:16 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Antimony | 5.57 | | 0.595 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Arsenic | 6.61 | | 0.566 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Barium | 80.3 | | 0.0932 | 0.547 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Beryllium | 0.121 | J | 0.0344 | 0.219 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Cadmium | 0.211 | J | 0.0515 | 0.547 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Chromium | 23.1 | | 0.145 | 1.09 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Cobalt | 8.34 | | 0.0887 | 1.09 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Copper | 47.8 | | 0.437 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Lead | 51.6 | | 0.227 | 0.547 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Molybdenum | 0.706 | | 0.119 | 0.547 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Nickel | 26.4 | | 0.144 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Silver | 0.193 | J | 0.139 | 1.09 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Vanadium | 35.3 | | 0.553 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-2.0 | L1745043-02 | Zinc | 75.0 | | 0.910 | 5.47 | 1 | 06/11/2024 10:26 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Antimony | 5.64 | | 0.628 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Arsenic | 9.68 | | 0.598 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Barium | 246 | | 0.0983 | 0.577 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Beryllium | 0.413 | | 0.0364 | 0.231 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Cadmium | 0.214 | J | 0.0544 | 0.577 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Chromium | 64.0 | | 0.154 | 1.15 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Cobalt | 13.7 | | 0.0936 | 1.15 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Copper | 40.7 | | 0.462 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Lead | 66.7 | | 0.240 | 0.577 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Molybdenum | 0.456 | J | 0.126 | 0.577 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Nickel | 55.2 | | 0.152 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Silver | 0.373 | J | 0.147 | 1.15 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Vanadium | 60.1 | | 0.584 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| BS-F1-1-3.0 | L1745043-03 | Zinc | 116 | | 0.960 | 5.77 | 1 | 06/11/2024 10:28 | WG2302184 |

# DETECTION SUMMARY

## Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-F1-1-2.0 | L1745043-02 | TPHG C5 - C12 | 1.17 | J | 0.989 | 2.98 | 25 | 06/11/2024 01:36 | WG2302398 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-F1-1-2.0 | L1745043-02 | Benzene | 0.000686 | J | 0.000556 | 0.00119 | 1 | 06/10/2024 19:21 | WG2302353 |
| BS-F1-1-2.0 | L1745043-02 | Naphthalene | 0.0326 | | 0.00581 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| BS-F1-1-2.0 | L1745043-02 | Tetrachloroethene | 0.00966 | | 0.00107 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| BS-F1-1-2.0 | L1745043-02 | Toluene | 0.00326 | J | 0.00155 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| BS-F1-1-2.0 | L1745043-02 | Xylenes, Total | 0.00446 | J | 0.00105 | 0.00774 | 1 | 06/10/2024 19:21 | WG2302353 |
| BS-F1-1-3.0 | L1745043-03 | Toluene | 0.00207 | J | 0.00174 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| BS-F1-1-5.0 | L1745043-05 | Tetrachloroethene | 0.00319 | J | 0.00141 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-F1-1-3.0 | L1745043-03 | C22-C32 Hydrocarbons | 30.2 | | 7.68 | 23.1 | 5 | 06/11/2024 17:13 | WG2302178 |
| BS-F1-1-3.0 | L1745043-03 | C32-C40 Hydrocarbons | 47.4 | | 7.68 | 23.1 | 5 | 06/11/2024 17:13 | WG2302178 |
| BS-F1-1-5.0 | L1745043-05 | C22-C32 Hydrocarbons | 2.64 | J | 1.63 | 4.89 | 1 | 06/11/2024 15:24 | WG2302178 |
| BS-F1-1-5.0 | L1745043-05 | C32-C40 Hydrocarbons | 3.50 | J | 1.63 | 4.89 | 1 | 06/11/2024 15:24 | WG2302178 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-F1-1-1.0 | L1745043-01 | Benzo(a)anthracene | 0.415 | | 0.0642 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Benzo(b)fluoranthene | 0.723 | | 0.0679 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Benzo(k)fluoranthene | 0.251 | J | 0.0648 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Benzo(g,h,i)perylene | 0.315 | J | 0.0666 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Benzo(a)pyrene | 0.480 | | 0.0677 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Chrysene | 0.598 | | 0.0724 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Fluoranthene | 0.433 | | 0.0658 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Indeno(1,2,3-cd)pyrene | 0.300 | J | 0.103 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Phenanthrene | 0.209 | J | 0.0723 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-1.0 | L1745043-01 | Pyrene | 0.577 | | 0.0709 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Benzo(a)anthracene | 0.440 | | 0.0642 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Benzo(b)fluoranthene | 0.904 | | 0.0679 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Benzo(k)fluoranthene | 0.267 | J | 0.0647 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Benzo(g,h,i)perylene | 0.307 | J | 0.0666 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Benzo(a)pyrene | 0.477 | | 0.0677 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Chrysene | 0.826 | | 0.0724 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Dibenz(a,h)anthracene | 0.104 | J | 0.101 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Fluoranthene | 0.389 | | 0.0657 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Indeno(1,2,3-cd)pyrene | 0.312 | J | 0.103 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Phenanthrene | 0.130 | J | 0.0723 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-2.0 | L1745043-02 | Pyrene | 0.563 | | 0.0709 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| BS-F1-1-3.0 | L1745043-03 | Benzo(b)fluoranthene | 0.0148 | J | 0.0143 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.4 | | 1 | 06/10/2024 15:02 | WG2302234 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.155 | | 0.0197 | 0.0438 | 1 | 06/10/2024 14:36 | WG2302140 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 8.37 | J6 | 0.595 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| Arsenic | 7.19 | | 0.567 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| Barium | 163 | | 0.0932 | 0.547 | 1 | 06/11/2024 10:16 | WG2302184 |
| Beryllium | 0.165 | J | 0.0345 | 0.219 | 1 | 06/11/2024 10:16 | WG2302184 |
| Cadmium | 0.409 | J | 0.0515 | 0.547 | 1 | 06/11/2024 10:16 | WG2302184 |
| Chromium | 37.2 | | 0.146 | 1.09 | 1 | 06/11/2024 10:16 | WG2302184 |
| Cobalt | 16.6 | | 0.0887 | 1.09 | 1 | 06/11/2024 10:16 | WG2302184 |
| Copper | 32.1 | | 0.438 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| Lead | 99.3 | | 0.228 | 0.547 | 1 | 06/11/2024 10:16 | WG2302184 |
| Molybdenum | 0.663 | | 0.119 | 0.547 | 1 | 06/11/2024 10:16 | WG2302184 |
| Nickel | 35.9 | | 0.144 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| Selenium | U | | 0.836 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| Silver | 0.386 | J | 0.139 | 1.09 | 1 | 06/11/2024 10:16 | WG2302184 |
| Thallium | U | | 0.431 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| Vanadium | 70.5 | | 0.554 | 2.19 | 1 | 06/11/2024 10:16 | WG2302184 |
| Zinc | 117 | | 0.910 | 5.47 | 1 | 06/11/2024 10:16 | WG2302184 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.03 | 3.10 | 25 | 06/11/2024 01:15 | WG2302398 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *06/11/2024 01:15* | WG2302398 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0129 | 0.0372 | 1 | 06/11/2024 14:46 | WG2301365 |
| PCB 1221 | U | | 0.0129 | 0.0372 | 1 | 06/11/2024 14:46 | WG2301365 |
| PCB 1232 | U | | 0.0129 | 0.0372 | 1 | 06/11/2024 14:46 | WG2301365 |
| PCB 1242 | U | | 0.0129 | 0.0372 | 1 | 06/11/2024 14:46 | WG2301365 |
| PCB 1248 | U | | 0.00807 | 0.0186 | 1 | 06/11/2024 14:46 | WG2301365 |
| PCB 1254 | U | | 0.00807 | 0.0186 | 1 | 06/11/2024 14:46 | WG2301365 |
| PCB 1260 | U | | 0.00807 | 0.0186 | 1 | 06/11/2024 14:46 | WG2301365 |
| *(S) Decachlorobiphenyl* | *110* | | | *10.0-135* | | *06/11/2024 14:46* | WG2301365 |
| *(S) Tetrachloro-m-xylene* | *102* | | | *10.0-139* | | *06/11/2024 14:46* | WG2301365 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acenaphthene | U | | 0.0590 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Acenaphthylene | U | | 0.0513 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Anthracene | U | | 0.0649 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Benzidine | U | | 0.685 | 18.3 | 10 | 06/11/2024 07:31 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 0.415 | | 0.0642 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Benzo(b)fluoranthene | 0.723 | | 0.0679 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Benzo(k)fluoranthene | 0.251 | J | 0.0648 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Benzo(g,h,i)perylene | 0.315 | J | 0.0666 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Benzo(a)pyrene | 0.480 | | 0.0677 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.109 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.120 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.158 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.128 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0640 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.127 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Chrysene | 0.598 | | 0.0724 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.101 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.108 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.110 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.108 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.135 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.104 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.119 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Fluoranthene | 0.433 | | 0.0658 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Fluorene | U | | 0.0593 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Hexachlorobenzene | U | | 0.129 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.123 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.191 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Hexachloroethane | U | | 0.143 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | 0.300 | J | 0.103 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Isophorone | U | | 0.112 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Naphthalene | U | | 0.0915 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Nitrobenzene | U | | 0.127 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.540 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.276 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.121 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Phenanthrene | 0.209 | J | 0.0723 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.114 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.462 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.125 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Diethyl phthalate | U | | 0.120 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Dimethyl phthalate | U | | 0.772 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.246 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Pyrene | 0.577 | | 0.0709 | 0.364 | 10 | 06/11/2024 07:31 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.114 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.118 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2-Chlorophenol | U | | 0.120 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.106 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0952 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.826 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.852 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2-Nitrophenol | U | | 0.130 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 4-Nitrophenol | U | | 0.114 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Pentachlorophenol | U | | 0.0980 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| Phenol | U | | 0.147 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.117 | 3.64 | 10 | 06/11/2024 07:31 | WG2301591 |
| *(S) 2-Fluorophenol* | *62.0* | | | *12.0-120* | | *06/11/2024 07:31* | WG2301591 |
| *(S) Phenol-d5* | *53.7* | | | *10.0-120* | | *06/11/2024 07:31* | WG2301591 |
| *(S) Nitrobenzene-d5* | *56.3* | | | *10.0-122* | | *06/11/2024 07:31* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *61.8* | | | *15.0-120* | | *06/11/2024 07:31* | WG2301591 |

Cp
Tc
Ss
Cn
Ds
Sr
Qc
Gl
Al
Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| *(S) 2,4,6-Tribromophenol* | *40.6* | | | *10.0-127* | | *06/11/2024 07:31* | WG2301591 |
| *(S) p-Terphenyl-d14* | *60.0* | | | *10.0-120* | | *06/11/2024 07:31* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.4 | | 1 | 06/10/2024 15:02 | WG2302234 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0657 | | 0.0197 | 0.0437 | 1 | 06/10/2024 14:51 | WG2302140 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 5.57 | | 0.595 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| Arsenic | 6.61 | | 0.566 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| Barium | 80.3 | | 0.0932 | 0.547 | 1 | 06/11/2024 10:26 | WG2302184 |
| Beryllium | 0.121 | J | 0.0344 | 0.219 | 1 | 06/11/2024 10:26 | WG2302184 |
| Cadmium | 0.211 | J | 0.0515 | 0.547 | 1 | 06/11/2024 10:26 | WG2302184 |
| Chromium | 23.1 | | 0.145 | 1.09 | 1 | 06/11/2024 10:26 | WG2302184 |
| Cobalt | 8.34 | | 0.0887 | 1.09 | 1 | 06/11/2024 10:26 | WG2302184 |
| Copper | 47.8 | | 0.437 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| Lead | 51.6 | | 0.227 | 0.547 | 1 | 06/11/2024 10:26 | WG2302184 |
| Molybdenum | 0.706 | | 0.119 | 0.547 | 1 | 06/11/2024 10:26 | WG2302184 |
| Nickel | 26.4 | | 0.144 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| Selenium | U | | 0.835 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| Silver | 0.193 | J | 0.139 | 1.09 | 1 | 06/11/2024 10:26 | WG2302184 |
| Thallium | U | | 0.431 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| Vanadium | 35.3 | | 0.553 | 2.19 | 1 | 06/11/2024 10:26 | WG2302184 |
| Zinc | 75.0 | | 0.910 | 5.47 | 1 | 06/11/2024 10:26 | WG2302184 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.17 | J | 0.989 | 2.98 | 25 | 06/11/2024 01:36 | WG2302398 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *06/11/2024 01:36* | WG2302398 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0435 | 0.0596 | 1 | 06/10/2024 19:21 | WG2302353 |
| Acrylonitrile | U | | 0.00430 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| Benzene | 0.000686 | J | 0.000556 | 0.00119 | 1 | 06/10/2024 19:21 | WG2302353 |
| Bromobenzene | U | | 0.00107 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| Bromodichloromethane | U | | 0.000864 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Bromoform | U | | 0.00139 | 0.0298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Bromomethane | U | | 0.00235 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| n-Butylbenzene | U | | 0.00625 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| sec-Butylbenzene | U | | 0.00343 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| tert-Butylbenzene | U | | 0.00232 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| Carbon tetrachloride | U | | 0.00107 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| Chlorobenzene | U | | 0.000250 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Chlorodibromomethane | U | | 0.000729 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Chloroethane | U | | 0.00203 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| Chloroform | U | | 0.00123 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Chloromethane | U | J4 | 0.00518 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| 2-Chlorotoluene | U | | 0.00103 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 4-Chlorotoluene | U | | 0.000536 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00465 | 0.0298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2-Dibromoethane | U | | 0.000772 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Dibromomethane | U | | 0.000894 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2-Dichlorobenzene | U | | 0.000506 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,3-Dichlorobenzene | U | | 0.000715 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,4-Dichlorobenzene | U | | 0.000834 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| Dichlorodifluoromethane | U | | 0.00192 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,1-Dichloroethane | U | | 0.000585 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2-Dichloroethane | U | | 0.000773 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,1-Dichloroethene | U | | 0.000722 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| cis-1,2-Dichloroethene | U | | 0.000874 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| trans-1,2-Dichloroethene | U | | 0.00124 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2-Dichloropropane | U | | 0.00169 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,1-Dichloropropene | U | | 0.000964 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,3-Dichloropropane | U | | 0.000597 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| cis-1,3-Dichloropropene | U | | 0.000902 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| trans-1,3-Dichloropropene | U | | 0.00136 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 2,2-Dichloropropane | U | | 0.00164 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Di-isopropyl ether | U | | 0.000488 | 0.00119 | 1 | 06/10/2024 19:21 | WG2302353 |
| Ethylbenzene | U | | 0.000878 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Hexachloro-1,3-butadiene | U | | 0.00715 | 0.0298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Isopropylbenzene | U | | 0.000506 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| p-Isopropyltoluene | U | | 0.00304 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 2-Butanone (MEK) | U | | 0.0757 | 0.119 | 1 | 06/10/2024 19:21 | WG2302353 |
| Methylene Chloride | U | | 0.00791 | 0.0298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00272 | 0.0298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Methyl tert-butyl ether | U | | 0.000417 | 0.00119 | 1 | 06/10/2024 19:21 | WG2302353 |
| Naphthalene | 0.0326 | | 0.00581 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| n-Propylbenzene | U | | 0.00113 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| Styrene | U | | 0.000273 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00113 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000828 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000898 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Tetrachloroethene | 0.00966 | | 0.00107 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Toluene | 0.00326 | J | 0.00155 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2,3-Trichlorobenzene | U | | 0.00873 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2,4-Trichlorobenzene | U | | 0.00524 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,1,1-Trichloroethane | U | | 0.00110 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,1,2-Trichloroethane | U | | 0.000711 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Trichloroethene | U | | 0.000696 | 0.00119 | 1 | 06/10/2024 19:21 | WG2302353 |
| Trichlorofluoromethane | U | | 0.000985 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2,3-Trichloropropane | U | | 0.00193 | 0.0149 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2,4-Trimethylbenzene | U | | 0.00188 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,2,3-Trimethylbenzene | U | | 0.00188 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| 1,3,5-Trimethylbenzene | U | | 0.00238 | 0.00596 | 1 | 06/10/2024 19:21 | WG2302353 |
| Vinyl chloride | U | | 0.00138 | 0.00298 | 1 | 06/10/2024 19:21 | WG2302353 |
| Xylenes, Total | 0.00446 | J | 0.00105 | 0.00774 | 1 | 06/10/2024 19:21 | WG2302353 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/10/2024 19:21* | WG2302353 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/10/2024 19:21* | WG2302353 |
| *(S) 1,2-Dichloroethane-d4* | *91.3* | | | *70.0-130* | | *06/10/2024 19:21* | WG2302353 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| PCB 1016 | U | | 0.0129 | 0.0372 | 1 | 06/11/2024 14:56 | WG2301365 |
| PCB 1221 | U | | 0.0129 | 0.0372 | 1 | 06/11/2024 14:56 | WG2301365 |
| PCB 1232 | U | | 0.0129 | 0.0372 | 1 | 06/11/2024 14:56 | WG2301365 |
| PCB 1242 | U | | 0.0129 | 0.0372 | 1 | 06/11/2024 14:56 | WG2301365 |
| PCB 1248 | U | | 0.00807 | 0.0186 | 1 | 06/11/2024 14:56 | WG2301365 |
| PCB 1254 | U | | 0.00807 | 0.0186 | 1 | 06/11/2024 14:56 | WG2301365 |
| PCB 1260 | U | | 0.00807 | 0.0186 | 1 | 06/11/2024 14:56 | WG2301365 |
| *(S) Decachlorobiphenyl* | *111* | | | *10.0-135* | | *06/11/2024 14:56* | WG2301365 |
| *(S) Tetrachloro-m-xylene* | *99.7* | | | *10.0-139* | | *06/11/2024 14:56* | WG2301365 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0589 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Acenaphthylene | U | | 0.0513 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Anthracene | U | | 0.0648 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Benzidine | U | | 0.685 | 18.3 | 10 | 06/11/2024 08:12 | WG2301591 |
| Benzo(a)anthracene | 0.440 | | 0.0642 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Benzo(b)fluoranthene | 0.904 | | 0.0679 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Benzo(k)fluoranthene | 0.267 | J | 0.0647 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Benzo(g,h,i)perylene | 0.307 | J | 0.0666 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Benzo(a)pyrene | 0.477 | | 0.0677 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.109 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.120 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.157 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.128 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0640 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.127 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Chrysene | 0.826 | | 0.0724 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Dibenz(a,h)anthracene | 0.104 | J | 0.101 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.108 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.110 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.108 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.135 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.104 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.119 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Fluoranthene | 0.389 | | 0.0657 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Fluorene | U | | 0.0593 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Hexachlorobenzene | U | | 0.129 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.122 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.191 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Hexachloroethane | U | | 0.143 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | 0.312 | J | 0.103 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Isophorone | U | | 0.112 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Naphthalene | U | | 0.0914 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Nitrobenzene | U | | 0.127 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.540 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.276 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.121 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Phenanthrene | 0.130 | J | 0.0723 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.114 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.461 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.125 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Diethyl phthalate | U | | 0.120 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Dimethyl phthalate | U | | 0.772 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.246 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Pyrene | 0.563 | | 0.0709 | 0.364 | 10 | 06/11/2024 08:12 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.114 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 4-Chloro-3-methylphenol | U | | 0.118 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2-Chlorophenol | U | | 0.120 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.106 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0951 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.826 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.852 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2-Nitrophenol | U | | 0.130 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 4-Nitrophenol | U | | 0.114 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Pentachlorophenol | U | | 0.0980 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| Phenol | U | | 0.147 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.117 | 3.64 | 10 | 06/11/2024 08:12 | WG2301591 |
| *(S) 2-Fluorophenol* | *62.9* | | | *12.0-120* | | *06/11/2024 08:12* | WG2301591 |
| *(S) Phenol-d5* | *56.4* | | | *10.0-120* | | *06/11/2024 08:12* | WG2301591 |
| *(S) Nitrobenzene-d5* | *57.2* | | | *10.0-122* | | *06/11/2024 08:12* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *66.2* | | | *15.0-120* | | *06/11/2024 08:12* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *36.2* | | | *10.0-127* | | *06/11/2024 08:12* | WG2301591 |
| *(S) p-Terphenyl-d14* | *62.2* | | | *10.0-120* | | *06/11/2024 08:12* | WG2301591 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | | 1 | 06/10/2024 15:02 | WG2302234 |

## Mercury by Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0904 | | 0.0208 | 0.0462 | 1 | 06/10/2024 14:49 | WG2302140 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Antimony | 5.64 | | 0.628 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| Arsenic | 9.68 | | 0.598 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| Barium | 246 | | 0.0983 | 0.577 | 1 | 06/11/2024 10:28 | WG2302184 |
| Beryllium | 0.413 | | 0.0364 | 0.231 | 1 | 06/11/2024 10:28 | WG2302184 |
| Cadmium | 0.214 | J | 0.0544 | 0.577 | 1 | 06/11/2024 10:28 | WG2302184 |
| Chromium | 64.0 | | 0.154 | 1.15 | 1 | 06/11/2024 10:28 | WG2302184 |
| Cobalt | 13.7 | | 0.0936 | 1.15 | 1 | 06/11/2024 10:28 | WG2302184 |
| Copper | 40.7 | | 0.462 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| Lead | 66.7 | | 0.240 | 0.577 | 1 | 06/11/2024 10:28 | WG2302184 |
| Molybdenum | 0.456 | J | 0.126 | 0.577 | 1 | 06/11/2024 10:28 | WG2302184 |
| Nickel | 55.2 | | 0.152 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| Selenium | U | | 0.882 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| Silver | 0.373 | J | 0.147 | 1.15 | 1 | 06/11/2024 10:28 | WG2302184 |
| Thallium | U | | 0.455 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| Vanadium | 60.1 | | 0.584 | 2.31 | 1 | 06/11/2024 10:28 | WG2302184 |
| Zinc | 116 | | 0.960 | 5.77 | 1 | 06/11/2024 10:28 | WG2302184 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.11 | 3.35 | 25 | 06/11/2024 01:58 | WG2302398 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *06/11/2024 01:58* | WG2302398 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0490 | 0.0671 | 1 | 06/10/2024 19:40 | WG2302353 |
| Acrylonitrile | U | | 0.00484 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| Benzene | U | | 0.000626 | 0.00134 | 1 | 06/10/2024 19:40 | WG2302353 |
| Bromobenzene | U | | 0.00121 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| Bromodichloromethane | U | | 0.000972 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Bromoform | U | | 0.00157 | 0.0335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Bromomethane | U | | 0.00264 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| n-Butylbenzene | U | | 0.00704 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| sec-Butylbenzene | U | | 0.00386 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| tert-Butylbenzene | U | | 0.00262 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| Carbon tetrachloride | U | | 0.00120 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| Chlorobenzene | U | | 0.000282 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Chlorodibromomethane | U | | 0.000821 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Chloroethane | U | | 0.00228 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| Chloroform | U | | 0.00138 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Chloromethane | U | J4 | 0.00583 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| 2-Chlorotoluene | U | | 0.00116 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 4-Chlorotoluene | U | | 0.000603 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | U | | 0.00523 | 0.0335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2-Dibromoethane | U | | 0.000869 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Dibromomethane | U | | 0.00101 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2-Dichlorobenzene | U | | 0.000570 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,3-Dichlorobenzene | U | | 0.000805 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,4-Dichlorobenzene | U | | 0.000939 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| Dichlorodifluoromethane | U | | 0.00216 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,1-Dichloroethane | U | | 0.000658 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2-Dichloroethane | U | | 0.000870 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,1-Dichloroethene | U | | 0.000813 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| cis-1,2-Dichloroethene | U | | 0.000984 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| trans-1,2-Dichloroethene | U | | 0.00139 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2-Dichloropropane | U | | 0.00190 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,1-Dichloropropene | U | | 0.00108 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,3-Dichloropropane | U | | 0.000672 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| cis-1,3-Dichloropropene | U | | 0.00102 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| trans-1,3-Dichloropropene | U | | 0.00153 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 2,2-Dichloropropane | U | | 0.00185 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Di-isopropyl ether | U | | 0.000550 | 0.00134 | 1 | 06/10/2024 19:40 | WG2302353 |
| Ethylbenzene | U | | 0.000988 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Hexachloro-1,3-butadiene | U | | 0.00805 | 0.0335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Isopropylbenzene | U | | 0.000570 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| p-Isopropyltoluene | U | | 0.00342 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 2-Butanone (MEK) | U | | 0.0852 | 0.134 | 1 | 06/10/2024 19:40 | WG2302353 |
| Methylene Chloride | U | | 0.00890 | 0.0335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00306 | 0.0335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Methyl tert-butyl ether | U | | 0.000469 | 0.00134 | 1 | 06/10/2024 19:40 | WG2302353 |
| Naphthalene | U | | 0.00654 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| n-Propylbenzene | U | | 0.00127 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| Styrene | U | | 0.000307 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00127 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000932 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00101 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Tetrachloroethene | U | | 0.00120 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Toluene | 0.00207 | J | 0.00174 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2,3-Trichlorobenzene | U | | 0.00983 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2,4-Trichlorobenzene | U | | 0.00590 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,1,1-Trichloroethane | U | | 0.00124 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,1,2-Trichloroethane | U | | 0.000801 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Trichloroethene | U | | 0.000783 | 0.00134 | 1 | 06/10/2024 19:40 | WG2302353 |
| Trichlorofluoromethane | U | | 0.00111 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2,3-Trichloropropane | U | | 0.00217 | 0.0168 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2,4-Trimethylbenzene | U | | 0.00212 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,2,3-Trimethylbenzene | U | | 0.00212 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| 1,3,5-Trimethylbenzene | U | | 0.00268 | 0.00671 | 1 | 06/10/2024 19:40 | WG2302353 |
| Vinyl chloride | U | | 0.00156 | 0.00335 | 1 | 06/10/2024 19:40 | WG2302353 |
| Xylenes, Total | U | | 0.00118 | 0.00872 | 1 | 06/10/2024 19:40 | WG2302353 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/10/2024 19:40* | WG2302353 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/10/2024 19:40* | WG2302353 |
| *(S) 1,2-Dichloroethane-d4* | *90.8* | | | *70.0-130* | | *06/10/2024 19:40* | WG2302353 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 4.24 | 23.1 | 5 | 06/11/2024 17:13 | WG2302178 |
| C22-C32 Hydrocarbons | 30.2 | | 7.68 | 23.1 | 5 | 06/11/2024 17:13 | WG2302178 |
| C32-C40 Hydrocarbons | 47.4 | | 7.68 | 23.1 | 5 | 06/11/2024 17:13 | WG2302178 |
| *(S) o-Terphenyl* | *65.9* | | | *18.0-148* | | *06/11/2024 17:13* | WG2302178 |

**Sample Narrative:**

L1745043-03 WG2302178: Cannot run at lower dilution due to viscosity of extract.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0125 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Acenaphthylene | U | | 0.0108 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Anthracene | U | | 0.0137 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Benzidine | U | | 0.144 | 3.86 | 2 | 06/11/2024 11:12 | WG2301591 |
| Benzo(a)anthracene | U | | 0.0135 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Benzo(b)fluoranthene | 0.0148 | J | 0.0143 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Benzo(k)fluoranthene | U | | 0.0136 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Benzo(g,h,i)perylene | U | | 0.0141 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Benzo(a)pyrene | U | | 0.0143 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Bis(2-chlorethoxy)methane | U | | 0.0231 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Bis(2-chloroethyl)ether | U | | 0.0254 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0332 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 4-Bromophenyl-phenylether | U | | 0.0270 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2-Chloronaphthalene | U | | 0.0135 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 4-Chlorophenyl-phenylether | U | | 0.0268 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Chrysene | U | | 0.0152 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Dibenz(a,h)anthracene | U | | 0.0214 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 1,2-Dichlorobenzene | U | | 0.0227 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 1,3-Dichlorobenzene | U | | 0.0233 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 1,4-Dichlorobenzene | U | | 0.0229 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 3,3-Dichlorobenzidine | U | | 0.0284 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2,4-Dinitrotoluene | U | | 0.0220 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2,6-Dinitrotoluene | U | | 0.0252 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Fluoranthene | U | | 0.0139 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Fluorene | U | | 0.0125 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Hexachlorobenzene | U | | 0.0272 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Hexachloro-1,3-butadiene | U | | 0.0259 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Hexachlorocyclopentadiene | U | | 0.0404 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Hexachloroethane | U | | 0.0302 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0217 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Isophorone | U | | 0.0235 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Naphthalene | U | | 0.0193 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Nitrobenzene | U | | 0.0268 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| n-Nitrosodimethylamine | U | | 0.114 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| n-Nitrosodiphenylamine | U | | 0.0582 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| n-Nitrosodi-n-propylamine | U | | 0.0256 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Phenanthrene | U | | 0.0152 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Benzylbutyl phthalate | U | | 0.0240 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0974 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Di-n-butyl phthalate | U | | 0.0263 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Diethyl phthalate | U | | 0.0254 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Dimethyl phthalate | U | | 0.163 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Di-n-octyl phthalate | U | | 0.0519 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Pyrene | U | | 0.0150 | 0.0769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 1,2,4-Trichlorobenzene | U | | 0.0240 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | U | | 0.0249 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2-Chlorophenol | U | | 0.0254 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2,4-Dichlorophenol | U | | 0.0224 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2,4-Dimethylphenol | U | | 0.0201 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 4,6-Dinitro-2-methylphenol | U | | 0.174 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2,4-Dinitrophenol | U | | 0.180 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2-Nitrophenol | U | | 0.0275 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 4-Nitrophenol | U | | 0.0240 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Pentachlorophenol | U | | 0.0207 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| Phenol | U | | 0.0309 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| 2,4,6-Trichlorophenol | U | | 0.0247 | 0.769 | 2 | 06/11/2024 11:12 | WG2301591 |
| *(S) 2-Fluorophenol* | *62.9* | | | *12.0-120* | | *06/11/2024 11:12* | WG2301591 |
| *(S) Phenol-d5* | *58.3* | | | *10.0-120* | | *06/11/2024 11:12* | WG2301591 |
| *(S) Nitrobenzene-d5* | *52.1* | | | *10.0-122* | | *06/11/2024 11:12* | WG2301591 |
| *(S) 2-Fluorobiphenyl* | *63.7* | | | *15.0-120* | | *06/11/2024 11:12* | WG2301591 |
| *(S) 2,4,6-Tribromophenol* | *71.2* | | | *10.0-127* | | *06/11/2024 11:12* | WG2301591 |
| *(S) p-Terphenyl-d14* | *66.2* | | | *10.0-120* | | *06/11/2024 11:12* | WG2301591 |

**Sample Narrative:**

L1745043-03 WG2301591: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.7 | | 1 | 06/10/2024 15:02 | WG2302234 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.20 | 3.62 | 25 | 06/11/2024 02:21 | WG2302398 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *06/11/2024 02:21* | WG2302398 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0529 | 0.0724 | 1 | 06/10/2024 19:59 | WG2302353 |
| Acrylonitrile | U | | 0.00523 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| Benzene | U | | 0.000676 | 0.00145 | 1 | 06/10/2024 19:59 | WG2302353 |
| Bromobenzene | U | | 0.00130 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| Bromodichloromethane | U | | 0.00105 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Bromoform | U | | 0.00169 | 0.0362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Bromomethane | U | | 0.00285 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| n-Butylbenzene | U | | 0.00761 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| sec-Butylbenzene | U | | 0.00417 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| tert-Butylbenzene | U | | 0.00282 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| Carbon tetrachloride | U | | 0.00130 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| Chlorobenzene | U | | 0.000304 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Chlorodibromomethane | U | | 0.000887 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Chloroethane | U | | 0.00246 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| Chloroform | U | | 0.00149 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Chloromethane | U | J4 | 0.00630 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| 2-Chlorotoluene | U | | 0.00125 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 4-Chlorotoluene | U | | 0.000652 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00565 | 0.0362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2-Dibromoethane | U | | 0.000939 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Dibromomethane | U | | 0.00109 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2-Dichlorobenzene | U | | 0.000616 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,3-Dichlorobenzene | U | | 0.000869 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,4-Dichlorobenzene | U | | 0.00101 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| Dichlorodifluoromethane | U | | 0.00233 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,1-Dichloroethane | U | | 0.000711 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2-Dichloroethane | U | | 0.000940 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,1-Dichloroethene | U | | 0.000878 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| cis-1,2-Dichloroethene | U | | 0.00106 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| trans-1,2-Dichloroethene | U | | 0.00151 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2-Dichloropropane | U | | 0.00206 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,1-Dichloropropene | U | | 0.00117 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,3-Dichloropropane | U | | 0.000726 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| cis-1,3-Dichloropropene | U | | 0.00110 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| trans-1,3-Dichloropropene | U | | 0.00165 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 2,2-Dichloropropane | U | | 0.00200 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Di-isopropyl ether | U | | 0.000594 | 0.00145 | 1 | 06/10/2024 19:59 | WG2302353 |
| Ethylbenzene | U | | 0.00107 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Hexachloro-1,3-butadiene | U | | 0.00869 | 0.0362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Isopropylbenzene | U | | 0.000616 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| p-Isopropyltoluene | U | | 0.00369 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 2-Butanone (MEK) | U | | 0.0920 | 0.145 | 1 | 06/10/2024 19:59 | WG2302353 |
| Methylene Chloride | U | | 0.00962 | 0.0362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00330 | 0.0362 | 1 | 06/10/2024 19:59 | WG2302353 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000507 | 0.00145 | 1 | 06/10/2024 19:59 | WG2302353 |
| Naphthalene | U | | 0.00707 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| n-Propylbenzene | U | | 0.00138 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| Styrene | U | | 0.000332 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00137 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00101 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00109 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Tetrachloroethene | U | | 0.00130 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Toluene | U | | 0.00188 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2,3-Trichlorobenzene | U | | 0.0106 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2,4-Trichlorobenzene | U | | 0.00637 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,1,1-Trichloroethane | U | | 0.00134 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,1,2-Trichloroethane | U | | 0.000865 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Trichloroethene | U | | 0.000846 | 0.00145 | 1 | 06/10/2024 19:59 | WG2302353 |
| Trichlorofluoromethane | U | | 0.00120 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2,3-Trichloropropane | U | | 0.00235 | 0.0181 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2,4-Trimethylbenzene | U | | 0.00229 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,2,3-Trimethylbenzene | U | | 0.00229 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| 1,3,5-Trimethylbenzene | U | | 0.00290 | 0.00724 | 1 | 06/10/2024 19:59 | WG2302353 |
| Vinyl chloride | U | | 0.00168 | 0.00362 | 1 | 06/10/2024 19:59 | WG2302353 |
| Xylenes, Total | U | | 0.00127 | 0.00942 | 1 | 06/10/2024 19:59 | WG2302353 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/10/2024 19:59* | WG2302353 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/10/2024 19:59* | WG2302353 |
| *(S) 1,2-Dichloroethane-d4* | *89.6* | | | *70.0-130* | | *06/10/2024 19:59* | WG2302353 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.7 | | 1 | 06/10/2024 15:02 | WG2302234 |

## Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | U | | 1.30 | 3.92 | 25 | 06/11/2024 02:42 | WG2302398 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *06/11/2024 02:42* | WG2302398 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0573 | 0.0785 | 1 | 06/10/2024 20:18 | WG2302353 |
| Acrylonitrile | U | | 0.00567 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| Benzene | U | | 0.000733 | 0.00157 | 1 | 06/10/2024 20:18 | WG2302353 |
| Bromobenzene | U | | 0.00141 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| Bromodichloromethane | U | | 0.00114 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Bromoform | U | | 0.00184 | 0.0392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Bromomethane | U | | 0.00309 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| n-Butylbenzene | U | | 0.00824 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| sec-Butylbenzene | U | | 0.00452 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| tert-Butylbenzene | U | | 0.00306 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| Carbon tetrachloride | U | | 0.00141 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| Chlorobenzene | U | | 0.000330 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Chlorodibromomethane | U | | 0.000960 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Chloroethane | U | | 0.00267 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| Chloroform | U | | 0.00162 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Chloromethane | U | J4 | 0.00683 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| 2-Chlorotoluene | U | | 0.00136 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 4-Chlorotoluene | U | | 0.000706 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00612 | 0.0392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2-Dibromoethane | U | | 0.00102 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Dibromomethane | U | | 0.00118 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2-Dichlorobenzene | U | | 0.000667 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,3-Dichlorobenzene | U | | 0.000942 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,4-Dichlorobenzene | U | | 0.00110 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| Dichlorodifluoromethane | U | | 0.00253 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,1-Dichloroethane | U | | 0.000771 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2-Dichloroethane | U | | 0.00102 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,1-Dichloroethene | U | | 0.000951 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| cis-1,2-Dichloroethene | U | | 0.00115 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| trans-1,2-Dichloroethene | U | | 0.00163 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2-Dichloropropane | U | | 0.00223 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,1-Dichloropropene | U | | 0.00127 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,3-Dichloropropane | U | | 0.000786 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| cis-1,3-Dichloropropene | U | | 0.00119 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| trans-1,3-Dichloropropene | U | | 0.00179 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 2,2-Dichloropropane | U | | 0.00217 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Di-isopropyl ether | U | | 0.000643 | 0.00157 | 1 | 06/10/2024 20:18 | WG2302353 |
| Ethylbenzene | U | | 0.00116 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Hexachloro-1,3-butadiene | U | | 0.00942 | 0.0392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Isopropylbenzene | U | | 0.000667 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| p-Isopropyltoluene | U | | 0.00400 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 2-Butanone (MEK) | U | | 0.0997 | 0.157 | 1 | 06/10/2024 20:18 | WG2302353 |
| Methylene Chloride | U | | 0.0104 | 0.0392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00358 | 0.0392 | 1 | 06/10/2024 20:18 | WG2302353 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000549 | 0.00157 | 1 | 06/10/2024 20:18 | WG2302353 |
| Naphthalene | U | | 0.00766 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| n-Propylbenzene | U | | 0.00149 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| Styrene | U | | 0.000359 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00149 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00109 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00118 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Tetrachloroethene | 0.00319 | J | 0.00141 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Toluene | U | | 0.00204 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2,3-Trichlorobenzene | U | | 0.0115 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2,4-Trichlorobenzene | U | | 0.00691 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,1,1-Trichloroethane | U | | 0.00145 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,1,2-Trichloroethane | U | | 0.000937 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Trichloroethene | U | | 0.000917 | 0.00157 | 1 | 06/10/2024 20:18 | WG2302353 |
| Trichlorofluoromethane | U | | 0.00130 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2,3-Trichloropropane | U | | 0.00254 | 0.0196 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2,4-Trimethylbenzene | U | | 0.00248 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,2,3-Trimethylbenzene | U | | 0.00248 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| 1,3,5-Trimethylbenzene | U | | 0.00314 | 0.00785 | 1 | 06/10/2024 20:18 | WG2302353 |
| Vinyl chloride | U | | 0.00182 | 0.00392 | 1 | 06/10/2024 20:18 | WG2302353 |
| Xylenes, Total | U | | 0.00138 | 0.0102 | 1 | 06/10/2024 20:18 | WG2302353 |
| *(S) Toluene-d8* | *98.4* | | | *75.0-131* | | *06/10/2024 20:18* | WG2302353 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *06/10/2024 20:18* | WG2302353 |
| *(S) 1,2-Dichloroethane-d4* | *94.3* | | | *70.0-130* | | *06/10/2024 20:18* | WG2302353 |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.897 | 4.89 | 1 | 06/11/2024 15:24 | WG2302178 |
| C22-C32 Hydrocarbons | 2.64 | J | 1.63 | 4.89 | 1 | 06/11/2024 15:24 | WG2302178 |
| C32-C40 Hydrocarbons | 3.50 | J | 1.63 | 4.89 | 1 | 06/11/2024 15:24 | WG2302178 |
| *(S) o-Terphenyl* | *70.5* | | | *18.0-148* | | *06/11/2024 15:24* | WG2302178 |

## Method Blank (MB)

(MB) R4079894-1 06/10/24 15:02

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1744904-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1744904-01 06/10/24 15:02 • (DUP) R4079894-3 06/10/24 15:02

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 95.8 | 96.1 | 1 | 0.269 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4079894-2 06/10/24 15:02

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 49.9 | 99.9 | 90.0-110 | |

## Method Blank (MB)

(MB) R4079627-1 06/10/24 14:31

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laboratory Control Sample (LCS)

(LCS) R4079627-2 06/10/24 14:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.494 | 98.8 | 80.0-120 | |

## L1745043-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1745043-01 06/10/24 14:36 • (MS) R4079627-4 06/10/24 14:41 • (MSD) R4079627-5 06/10/24 14:43

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.547 | 0.155 | 0.650 | 0.618 | 90.4 | 84.6 | 1 | 75.0-125 | | | 5.05 | 20 |

## Method Blank (MB)

(MB) R4080164-3 06/11/24 10:13

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Antimony | U | | 0.544 | 2.00 |
| Arsenic | U | | 0.518 | 2.00 |
| Barium | 0.0959 | J | 0.0852 | 0.500 |
| Beryllium | U | | 0.0315 | 0.200 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Cobalt | U | | 0.0811 | 1.00 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Molybdenum | U | | 0.109 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | 0.765 | J | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Thallium | U | | 0.394 | 2.00 |
| Vanadium | U | | 0.506 | 2.00 |
| Zinc | U | | 0.832 | 5.00 |

## Laboratory Control Sample (LCS)

(LCS) R4080164-4 06/11/24 10:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Antimony | 100 | 96.5 | 96.5 | 80.0-120 | |
| Arsenic | 100 | 98.7 | 98.7 | 80.0-120 | |
| Barium | 100 | 102 | 102 | 80.0-120 | |
| Beryllium | 100 | 101 | 101 | 80.0-120 | |
| Cadmium | 100 | 98.4 | 98.4 | 80.0-120 | |
| Chromium | 100 | 104 | 104 | 80.0-120 | |
| Cobalt | 100 | 97.6 | 97.6 | 80.0-120 | |
| Copper | 100 | 104 | 104 | 80.0-120 | |
| Lead | 100 | 99.1 | 99.1 | 80.0-120 | |
| Molybdenum | 100 | 102 | 102 | 80.0-120 | |
| Nickel | 100 | 96.7 | 96.7 | 80.0-120 | |
| Selenium | 100 | 96.8 | 96.8 | 80.0-120 | |
| Silver | 20.0 | 20.1 | 101 | 80.0-120 | |
| Thallium | 100 | 100 | 100 | 80.0-120 | |
| Vanadium | 100 | 99.8 | 99.8 | 80.0-120 | |
| Zinc | 100 | 98.8 | 98.8 | 80.0-120 | |

# WG2302184

Metals (ICP) by Method 6010B

## QUALITY CONTROL SUMMARY

L1745043-01,02,03

### L1745043-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1745043-01 06/11/24 10:16 • (MS) R4080164-7 06/11/24 10:21 • (MSD) R4080164-8 06/11/24 10:23

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 109 | 8.37 | 81.5 | 83.9 | 66.8 | 69.0 | 1 | 75.0-125 | J6 | J6 | 2.86 | 20 |
| Arsenic | 109 | 7.19 | 99.8 | 104 | 84.6 | 88.9 | 1 | 75.0-125 | | | 4.54 | 20 |
| Barium | 109 | 163 | 247 | 261 | 76.7 | 89.5 | 1 | 75.0-125 | | | 5.54 | 20 |
| Beryllium | 109 | 0.165 | 95.1 | 98.0 | 86.7 | 89.4 | 1 | 75.0-125 | | | 3.04 | 20 |
| Cadmium | 109 | 0.409 | 96.2 | 99.1 | 87.5 | 90.2 | 1 | 75.0-125 | | | 2.99 | 20 |
| Chromium | 109 | 37.2 | 143 | 148 | 97.0 | 102 | 1 | 75.0-125 | | | 3.46 | 20 |
| Cobalt | 109 | 16.6 | 118 | 119 | 92.3 | 93.5 | 1 | 75.0-125 | | | 1.07 | 20 |
| Copper | 109 | 32.1 | 138 | 143 | 97.3 | 101 | 1 | 75.0-125 | | | 2.96 | 20 |
| Lead | 109 | 99.3 | 207 | 209 | 98.7 | 99.8 | 1 | 75.0-125 | | | 0.599 | 20 |
| Molybdenum | 109 | 0.663 | 90.9 | 94.3 | 82.5 | 85.6 | 1 | 75.0-125 | | | 3.65 | 20 |
| Nickel | 109 | 35.9 | 133 | 141 | 89.0 | 96.0 | 1 | 75.0-125 | | | 5.62 | 20 |
| Selenium | 109 | U | 102 | 104 | 93.3 | 95.5 | 1 | 75.0-125 | | | 2.34 | 20 |
| Silver | 21.9 | 0.386 | 20.4 | 21.6 | 91.5 | 96.9 | 1 | 75.0-125 | | | 5.68 | 20 |
| Thallium | 109 | U | 96.3 | 98.3 | 88.0 | 89.9 | 1 | 75.0-125 | | | 2.05 | 20 |
| Vanadium | 109 | 70.5 | 168 | 178 | 89.5 | 98.2 | 1 | 75.0-125 | | | 5.48 | 20 |
| Zinc | 109 | 117 | 219 | 222 | 93.1 | 96.2 | 1 | 75.0-125 | | | 1.56 | 20 |

## Method Blank (MB)

(MB) R4079869-2 06/11/24 00:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | U | | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4079869-1 06/10/24 23:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.90 | 98.0 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *103* | *77.0-120* | |

## Method Blank (MB)

(MB) R4079874-3 06/10/24 14:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4079874-3 06/10/24 14:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *107* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *92.0* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4079874-1 06/10/24 13:24 • (LCSD) R4079874-2 06/10/24 13:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.720 | 0.722 | 115 | 116 | 10.0-160 | | | 0.277 | 31 |
| Acrylonitrile | 0.625 | 0.826 | 0.836 | 132 | 134 | 45.0-153 | | | 1.20 | 22 |
| Benzene | 0.125 | 0.136 | 0.133 | 109 | 106 | 70.0-123 | | | 2.23 | 20 |
| Bromobenzene | 0.125 | 0.127 | 0.127 | 102 | 102 | 73.0-121 | | | 0.000 | 20 |
| Bromodichloromethane | 0.125 | 0.132 | 0.134 | 106 | 107 | 73.0-121 | | | 1.50 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4079874-1 06/10/24 13:24 • (LCSD) R4079874-2 06/10/24 13:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.126 | 0.124 | 101 | 99.2 | 64.0-132 | | | 1.60 | 20 |
| Bromomethane | 0.125 | 0.128 | 0.124 | 102 | 99.2 | 56.0-147 | | | 3.17 | 20 |
| n-Butylbenzene | 0.125 | 0.145 | 0.143 | 116 | 114 | 68.0-135 | | | 1.39 | 20 |
| sec-Butylbenzene | 0.125 | 0.136 | 0.132 | 109 | 106 | 74.0-130 | | | 2.99 | 20 |
| tert-Butylbenzene | 0.125 | 0.141 | 0.139 | 113 | 111 | 75.0-127 | | | 1.43 | 20 |
| Carbon tetrachloride | 0.125 | 0.146 | 0.144 | 117 | 115 | 66.0-128 | | | 1.38 | 20 |
| Chlorobenzene | 0.125 | 0.134 | 0.133 | 107 | 106 | 76.0-128 | | | 0.749 | 20 |
| Chlorodibromomethane | 0.125 | 0.134 | 0.134 | 107 | 107 | 74.0-127 | | | 0.000 | 20 |
| Chloroethane | 0.125 | 0.136 | 0.134 | 109 | 107 | 61.0-134 | | | 1.48 | 20 |
| Chloroform | 0.125 | 0.128 | 0.127 | 102 | 102 | 72.0-123 | | | 0.784 | 20 |
| Chloromethane | 0.125 | 0.187 | 0.184 | 150 | 147 | 51.0-138 | J4 | J4 | 1.62 | 20 |
| 2-Chlorotoluene | 0.125 | 0.128 | 0.128 | 102 | 102 | 75.0-124 | | | 0.000 | 20 |
| 4-Chlorotoluene | 0.125 | 0.121 | 0.121 | 96.8 | 96.8 | 75.0-124 | | | 0.000 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.130 | 0.129 | 104 | 103 | 59.0-130 | | | 0.772 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.136 | 0.136 | 109 | 109 | 74.0-128 | | | 0.000 | 20 |
| Dibromomethane | 0.125 | 0.135 | 0.136 | 108 | 109 | 75.0-122 | | | 0.738 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.140 | 0.139 | 112 | 111 | 76.0-124 | | | 0.717 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.135 | 0.135 | 108 | 108 | 76.0-125 | | | 0.000 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.135 | 0.134 | 108 | 107 | 77.0-121 | | | 0.743 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.159 | 0.160 | 127 | 128 | 43.0-156 | | | 0.627 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.141 | 0.139 | 113 | 111 | 70.0-127 | | | 1.43 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.122 | 0.122 | 97.6 | 97.6 | 65.0-131 | | | 0.000 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.139 | 0.136 | 111 | 109 | 65.0-131 | | | 2.18 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.132 | 0.130 | 106 | 104 | 73.0-125 | | | 1.53 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.134 | 0.132 | 107 | 106 | 71.0-125 | | | 1.50 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.138 | 0.137 | 110 | 110 | 74.0-125 | | | 0.727 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.139 | 0.140 | 111 | 112 | 73.0-125 | | | 0.717 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.135 | 0.135 | 108 | 108 | 80.0-125 | | | 0.000 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.141 | 0.141 | 113 | 113 | 76.0-127 | | | 0.000 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.137 | 0.137 | 110 | 110 | 73.0-127 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.143 | 0.138 | 114 | 110 | 59.0-135 | | | 3.56 | 20 |
| Di-isopropyl ether | 0.125 | 0.136 | 0.133 | 109 | 106 | 60.0-136 | | | 2.23 | 20 |
| Ethylbenzene | 0.125 | 0.138 | 0.137 | 110 | 110 | 74.0-126 | | | 0.727 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.154 | 0.151 | 123 | 121 | 57.0-150 | | | 1.97 | 20 |
| Isopropylbenzene | 0.125 | 0.142 | 0.141 | 114 | 113 | 72.0-127 | | | 0.707 | 20 |
| p-Isopropyltoluene | 0.125 | 0.136 | 0.134 | 109 | 107 | 72.0-133 | | | 1.48 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.856 | 0.867 | 137 | 139 | 30.0-160 | | | 1.28 | 24 |
| Methylene Chloride | 0.125 | 0.128 | 0.130 | 102 | 104 | 68.0-123 | | | 1.55 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.750 | 0.745 | 120 | 119 | 56.0-143 | | | 0.669 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.137 | 0.137 | 110 | 110 | 66.0-132 | | | 0.000 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4079874-1 06/10/24 13:24 • (LCSD) R4079874-2 06/10/24 13:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.126 | 0.127 | 101 | 102 | 59.0-130 | | | 0.791 | 20 |
| n-Propylbenzene | 0.125 | 0.129 | 0.128 | 103 | 102 | 74.0-126 | | | 0.778 | 20 |
| Styrene | 0.125 | 0.132 | 0.131 | 106 | 105 | 72.0-127 | | | 0.760 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.135 | 0.129 | 108 | 103 | 74.0-129 | | | 4.55 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.118 | 0.122 | 94.4 | 97.6 | 68.0-128 | | | 3.33 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.156 | 0.156 | 125 | 125 | 61.0-139 | | | 0.000 | 20 |
| Tetrachloroethene | 0.125 | 0.149 | 0.149 | 119 | 119 | 70.0-136 | | | 0.000 | 20 |
| Toluene | 0.125 | 0.126 | 0.126 | 101 | 101 | 75.0-121 | | | 0.000 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.139 | 0.146 | 111 | 117 | 59.0-139 | | | 4.91 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.155 | 0.155 | 124 | 124 | 62.0-137 | | | 0.000 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.146 | 0.149 | 117 | 119 | 69.0-126 | | | 2.03 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.132 | 0.132 | 106 | 106 | 78.0-123 | | | 0.000 | 20 |
| Trichloroethene | 0.125 | 0.153 | 0.147 | 122 | 118 | 76.0-126 | | | 4.00 | 20 |
| Trichlorofluoromethane | 0.125 | 0.150 | 0.149 | 120 | 119 | 61.0-142 | | | 0.669 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.127 | 0.124 | 102 | 99.2 | 67.0-129 | | | 2.39 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.127 | 0.128 | 102 | 102 | 70.0-126 | | | 0.784 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.127 | 0.126 | 102 | 101 | 74.0-124 | | | 0.791 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.131 | 0.131 | 105 | 105 | 73.0-127 | | | 0.000 | 20 |
| Vinyl chloride | 0.125 | 0.133 | 0.134 | 106 | 107 | 63.0-134 | | | 0.749 | 20 |
| Xylenes, Total | 0.375 | 0.419 | 0.413 | 112 | 110 | 72.0-127 | | | 1.44 | 20 |
| *(S) Toluene-d8* | | | | *98.2* | *98.8* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *107* | *108* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *97.2* | *97.0* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4080350-1 06/11/24 12:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| C22-C32 Hydrocarbons | U | | 1.33 | 4.00 |
| C32-C40 Hydrocarbons | U | | 1.33 | 4.00 |
| *(S) o-Terphenyl* | *103* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4080350-2 06/11/24 12:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 25.0 | 20.0 | 80.0 | 50.0-150 | |
| C22-C32 Hydrocarbons | 25.0 | 17.2 | 68.8 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *66.8* | *18.0-148* | |

## L1741921-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741921-17 06/11/24 13:43 • (MS) R4080350-3 06/11/24 13:58 • (MSD) R4080350-4 06/11/24 14:12

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 33.0 | 22.3 | 37.5 | 42.9 | 45.9 | 61.0 | 1 | 50.0-150 | J6 | | 13.5 | 20 |
| C22-C32 Hydrocarbons | 33.0 | 42.6 | 44.7 | 58.7 | 6.15 | 47.8 | 1 | 50.0-150 | J6 | J3 J6 | 27.2 | 20 |
| *(S) o-Terphenyl* | | | | | *67.5* | *61.1* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4080247-1 06/11/24 14:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *39.9* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *39.5* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4080247-2 06/11/24 14:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.104 | 62.3 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.109 | 65.3 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *49.2* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *46.2* | *10.0-139* | |

## L1742842-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742842-01 06/12/24 02:46 • (MS) R4080729-1 06/12/24 02:55 • (MSD) R4080729-2 06/12/24 03:04

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.215 | U | 0.267 | 0.254 | 124 | 119 | 1 | 10.0-160 | P | | 4.98 | 37 |
| PCB 1260 | 0.215 | U | 0.210 | 0.205 | 97.6 | 95.8 | 1 | 10.0-160 | | | 2.50 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *85.8* | *81.3* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *95.8* | *88.8* | | *10.0-139* | | | | |

# QUALITY CONTROL SUMMARY

L1745043-01,02,03

## Method Blank (MB)

(MB) R4079830-2 06/11/24 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 1,2-Dichlorobenzene | U | | 0.00987 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0101 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.00991 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |

# QUALITY CONTROL SUMMARY

L1745043-01,02,03

## Method Blank (MB)

(MB) R4079830-2 06/11/24 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *57.5* | | | *12.0-120* |
| *(S) Phenol-d5* | *50.5* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *51.1* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *57.4* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *33.8* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *57.7* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.478 | 71.8 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.512 | 76.9 | 40.0-120 | |
| Anthracene | 0.666 | 0.501 | 75.2 | 42.0-120 | |
| Benzidine | 1.33 | 0.457 | 34.4 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.529 | 79.4 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.499 | 74.9 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.502 | 75.4 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.447 | 67.1 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.516 | 77.5 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.384 | 57.7 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.528 | 79.3 | 16.0-120 | |

# QUALITY CONTROL SUMMARY

L1745043-01,02,03

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.453 | 68.0 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.384 | 57.7 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.464 | 69.7 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.485 | 72.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.527 | 79.1 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.453 | 68.0 | 44.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.451 | 67.7 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.422 | 63.4 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.422 | 63.4 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 0.791 | 59.5 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.558 | 83.8 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.571 | 85.7 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.467 | 70.1 | 44.0-120 | |
| Fluorene | 0.666 | 0.497 | 74.6 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.316 | 47.4 | 39.0-120 | J |
| Hexachloro-1,3-butadiene | 0.666 | 0.391 | 58.7 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.334 | 50.2 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.416 | 62.5 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.427 | 64.1 | 45.0-120 | |
| Isophorone | 0.666 | 0.404 | 60.7 | 23.0-120 | |
| Naphthalene | 0.666 | 0.377 | 56.6 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.379 | 56.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.377 | 56.6 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.450 | 67.6 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.481 | 72.2 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.493 | 74.0 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.643 | 96.5 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.656 | 98.5 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.501 | 75.2 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.540 | 81.1 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.531 | 79.7 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.633 | 95.0 | 40.0-120 | |
| Pyrene | 0.666 | 0.580 | 87.1 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.394 | 59.2 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.399 | 59.9 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.480 | 72.1 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.404 | 60.7 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.449 | 67.4 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.603 | 90.5 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.490 | 73.6 | 10.0-120 | |

# QUALITY CONTROL SUMMARY

L1745043-01,02,03

## Laboratory Control Sample (LCS)

(LCS) R4079830-1 06/11/24 00:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2-Nitrophenol | 0.666 | 0.470 | 70.6 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.625 | 93.8 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.353 | 53.0 | 29.0-120 | |
| Phenol | 0.666 | 0.418 | 62.8 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.479 | 71.9 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *72.8* | *12.0-120* | |
| *(S) Phenol-d5* | | | *63.8* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *52.9* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *73.6* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *43.7* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *70.0* | *10.0-120* | |

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.809 | U | 0.414 | 0.396 | 51.2 | 48.6 | 1 | 18.0-120 | | | 4.59 | 32 |
| Acenaphthylene | 0.809 | U | 0.453 | 0.430 | 56.0 | 52.9 | 1 | 25.0-120 | | | 5.06 | 32 |
| Anthracene | 0.809 | U | 0.458 | 0.442 | 56.6 | 54.3 | 1 | 22.0-120 | | | 3.59 | 29 |
| Benzidine | 1.61 | U | 0.165 | 0.159 | 10.2 | 9.77 | 1 | 10.0-120 | J | J J6 | 3.83 | 40 |
| Benzo(a)anthracene | 0.809 | U | 0.474 | 0.445 | 58.6 | 54.7 | 1 | 25.0-120 | | | 6.21 | 29 |
| Benzo(b)fluoranthene | 0.809 | U | 0.452 | 0.419 | 55.8 | 51.5 | 1 | 19.0-122 | | | 7.41 | 31 |
| Benzo(k)fluoranthene | 0.809 | U | 0.447 | 0.423 | 55.2 | 52.0 | 1 | 23.0-120 | | | 5.42 | 30 |
| Benzo(g,h,i)perylene | 0.809 | U | 0.403 | 0.375 | 49.8 | 46.0 | 1 | 10.0-120 | | | 7.34 | 33 |
| Benzo(a)pyrene | 0.809 | U | 0.454 | 0.434 | 56.1 | 53.4 | 1 | 24.0-120 | | | 4.47 | 30 |
| Bis(2-chlorethoxy)methane | 0.809 | U | 0.356 | 0.345 | 44.0 | 42.4 | 1 | 10.0-120 | J | J | 3.19 | 34 |
| Bis(2-chloroethyl)ether | 0.809 | U | 0.489 | 0.459 | 60.4 | 56.4 | 1 | 10.0-120 | | | 6.28 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.809 | U | 0.397 | 0.382 | 49.1 | 47.0 | 1 | 10.0-120 | J | J | 3.82 | 40 |
| 4-Bromophenyl-phenylether | 0.809 | U | 0.349 | 0.344 | 43.1 | 42.2 | 1 | 27.0-120 | J | J | 1.43 | 30 |
| 2-Chloronaphthalene | 0.809 | U | 0.408 | 0.386 | 50.5 | 47.4 | 1 | 20.0-120 | | | 5.63 | 32 |
| 4-Chlorophenyl-phenylether | 0.809 | U | 0.433 | 0.429 | 53.5 | 52.7 | 1 | 24.0-120 | | | 0.863 | 29 |
| Chrysene | 0.809 | U | 0.480 | 0.449 | 59.4 | 55.2 | 1 | 21.0-120 | | | 6.68 | 29 |
| Dibenz(a,h)anthracene | 0.809 | U | 0.396 | 0.373 | 48.9 | 45.9 | 1 | 10.0-120 | | | 5.81 | 32 |
| 1,2-Dichlorobenzene | 0.809 | U | 0.414 | 0.397 | 51.2 | 48.8 | 1 | 10.0-120 | | J | 4.28 | 38 |
| 1,3-Dichlorobenzene | 0.809 | U | 0.388 | 0.375 | 48.0 | 46.0 | 1 | 10.0-120 | J | J | 3.58 | 40 |
| 1,4-Dichlorobenzene | 0.809 | U | 0.398 | 0.378 | 49.2 | 46.5 | 1 | 10.0-120 | J | J | 5.11 | 39 |
| 3,3-Dichlorobenzidine | 1.61 | U | 0.579 | 0.504 | 35.9 | 31.0 | 1 | 10.0-120 | | | 14.0 | 34 |
| 2,4-Dinitrotoluene | 0.809 | U | 0.501 | 0.481 | 62.0 | 59.1 | 1 | 30.0-120 | | | 4.04 | 31 |

# WG2301591

# QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L1745043-01,02,03

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | 0.809 | U | 0.515 | 0.486 | 63.7 | 59.8 | 1 | 25.0-120 | | | 5.70 | 31 |
| Fluoranthene | 0.809 | U | 0.425 | 0.413 | 52.6 | 50.8 | 1 | 18.0-126 | | | 2.96 | 32 |
| Fluorene | 0.809 | U | 0.453 | 0.428 | 56.0 | 52.6 | 1 | 25.0-120 | | | 5.63 | 30 |
| Hexachlorobenzene | 0.809 | U | 0.290 | 0.280 | 35.9 | 34.5 | 1 | 27.0-120 | J | J | 3.48 | 28 |
| Hexachloro-1,3-butadiene | 0.809 | U | 0.367 | 0.354 | 45.4 | 43.4 | 1 | 10.0-120 | J | J | 3.79 | 38 |
| Hexachlorocyclopentadiene | 0.809 | U | 0.284 | 0.258 | 35.1 | 31.7 | 1 | 10.0-120 | J | J | 9.61 | 40 |
| Hexachloroethane | 0.809 | U | 0.376 | 0.363 | 46.5 | 44.7 | 1 | 10.0-120 | J | J | 3.36 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.809 | U | 0.382 | 0.362 | 47.2 | 44.5 | 1 | 10.0-120 | | | 5.33 | 32 |
| Isophorone | 0.809 | U | 0.377 | 0.368 | 46.6 | 45.3 | 1 | 13.0-120 | J | J | 2.33 | 34 |
| Naphthalene | 0.809 | U | 0.358 | 0.345 | 44.3 | 42.4 | 1 | 10.0-120 | | | 3.88 | 35 |
| Nitrobenzene | 0.809 | U | 0.358 | 0.347 | 44.3 | 42.7 | 1 | 10.0-120 | J | J | 3.16 | 36 |
| n-Nitrosodimethylamine | 0.809 | U | 0.376 | 0.342 | 46.5 | 42.1 | 1 | 10.0-127 | J | J | 9.33 | 40 |
| n-Nitrosodiphenylamine | 0.809 | U | 0.360 | 0.342 | 44.5 | 42.1 | 1 | 17.0-120 | J | J | 4.95 | 29 |
| n-Nitrosodi-n-propylamine | 0.809 | U | 0.439 | 0.423 | 54.3 | 52.0 | 1 | 10.0-120 | | | 3.74 | 37 |
| Phenanthrene | 0.809 | U | 0.443 | 0.438 | 54.8 | 53.8 | 1 | 17.0-120 | | | 1.13 | 31 |
| Benzylbutyl phthalate | 0.809 | U | 0.604 | 0.561 | 74.7 | 68.9 | 1 | 23.0-120 | | | 7.45 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.809 | U | 0.594 | 0.561 | 73.5 | 68.9 | 1 | 17.0-126 | | | 5.80 | 30 |
| Di-n-butyl phthalate | 0.809 | U | 0.452 | 0.440 | 55.8 | 54.1 | 1 | 30.0-120 | | | 2.50 | 29 |
| Diethyl phthalate | 0.809 | U | 0.483 | 0.466 | 59.7 | 57.3 | 1 | 26.0-120 | | | 3.40 | 28 |
| Dimethyl phthalate | 0.809 | U | 0.464 | 0.450 | 57.4 | 55.3 | 1 | 25.0-120 | | | 2.99 | 29 |
| Di-n-octyl phthalate | 0.809 | U | 0.595 | 0.552 | 73.6 | 67.8 | 1 | 21.0-123 | | | 7.57 | 29 |
| Pyrene | 0.809 | U | 0.516 | 0.492 | 63.8 | 60.5 | 1 | 16.0-121 | | | 4.67 | 32 |
| 1,2,4-Trichlorobenzene | 0.809 | U | 0.366 | 0.356 | 45.2 | 43.8 | 1 | 12.0-120 | J | J | 2.75 | 37 |
| 4-Chloro-3-methylphenol | 0.809 | U | 0.371 | 0.355 | 45.9 | 43.6 | 1 | 15.0-120 | J | J | 4.44 | 30 |
| 2-Chlorophenol | 0.809 | U | 0.434 | 0.407 | 53.7 | 50.0 | 1 | 15.0-120 | | J | 6.49 | 37 |
| 2,4-Dichlorophenol | 0.809 | U | 0.371 | 0.371 | 45.9 | 45.6 | 1 | 20.0-120 | J | J | 0.000 | 31 |
| 2,4-Dimethylphenol | 0.809 | U | 0.357 | 0.357 | 44.2 | 43.9 | 1 | 10.0-120 | J | J | 0.000 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.809 | U | 0.708 | 0.685 | 87.6 | 84.1 | 1 | 10.0-120 | | | 3.38 | 39 |
| 2,4-Dinitrophenol | 0.809 | U | 0.781 | 0.750 | 96.6 | 92.2 | 1 | 10.0-121 | | | 4.05 | 40 |
| 2-Nitrophenol | 0.809 | U | 0.455 | 0.434 | 56.3 | 53.4 | 1 | 12.0-120 | | | 4.74 | 39 |
| 4-Nitrophenol | 0.809 | U | 0.628 | 0.567 | 77.6 | 69.7 | 1 | 10.0-137 | | | 10.2 | 32 |
| Pentachlorophenol | 0.809 | U | 0.404 | 0.391 | 50.0 | 48.0 | 1 | 10.0-160 | J | J | 3.43 | 31 |
| Phenol | 0.809 | U | 0.373 | 0.370 | 46.2 | 45.4 | 1 | 12.0-120 | J | J | 1.00 | 38 |
| 2,4,6-Trichlorophenol | 0.809 | U | 0.425 | 0.438 | 52.6 | 53.8 | 1 | 19.0-120 | | | 2.87 | 32 |
| *(S) 2-Fluorophenol* | | | | | *54.4* | *51.1* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *46.0* | *45.1* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *41.7* | *40.2* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *51.5* | *48.2* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *33.3* | *32.6* | | *10.0-127* | | | | |

## L1741416-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1741416-29 06/11/24 01:15 • (MS) R4079830-3 06/11/24 01:35 • (MSD) R4079830-4 06/11/24 01:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(S) p-Terphenyl-d14* | | | | | *51.2* | *47.6* | | *10.0-120* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

L1745043

# 5/30/24 NCF

R2/R3/R4/RX/EX

**Time estimate:** oh **Time spent:** oh

**Members**

ED Elijah Dossett (responsible) Jennifer Gambill

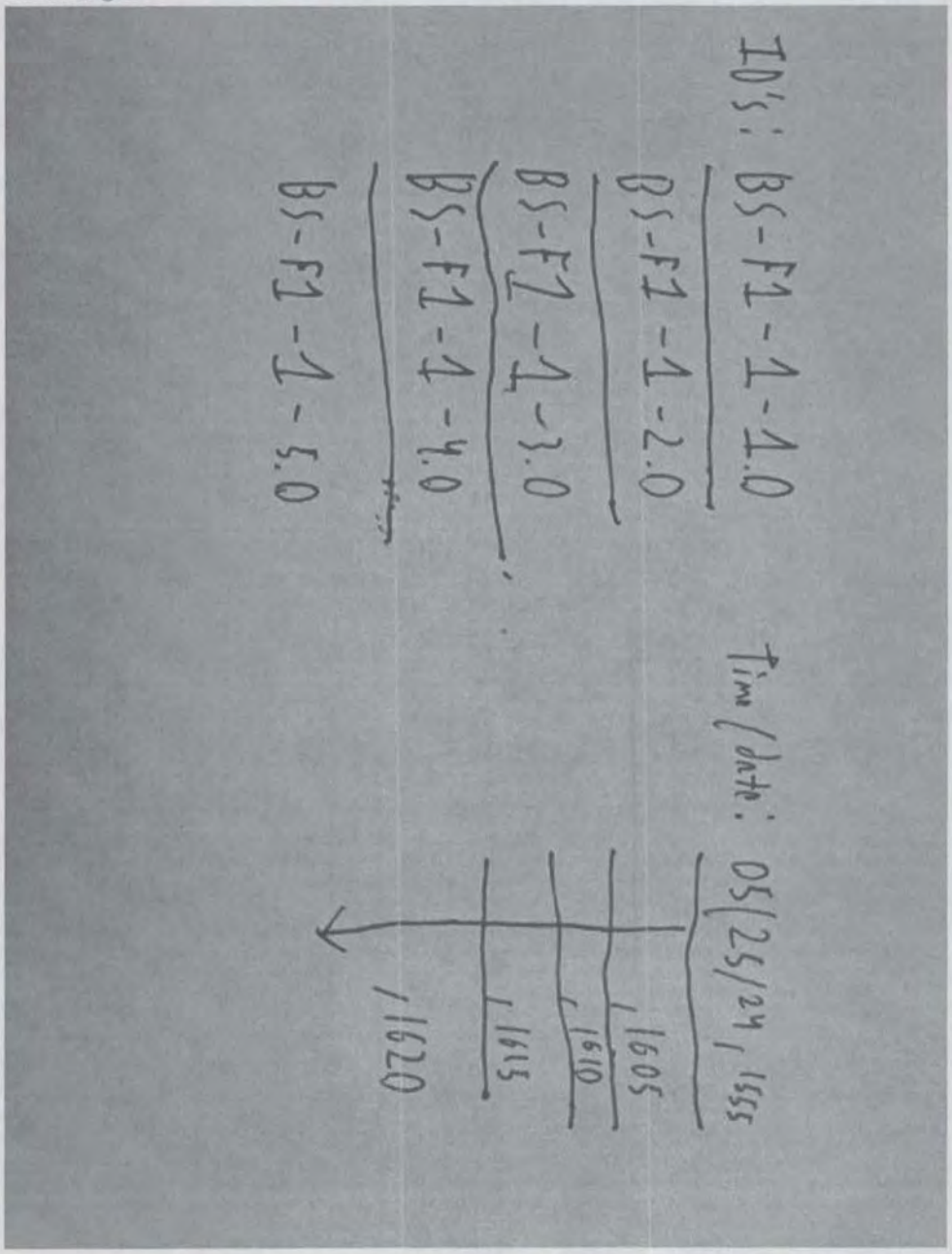
- [ ] Parameter(s) past holding time
- [ ] Temperature not in range
- [ ] Improper container type
- [ ] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [ ] Broken container
- [ ] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

**Comments**

1745043

*Elijah Dossett* *30 May 2024 5:40 PM*

No COC
Received By Easton Organ
Date/time 5/30/24 0900
Temp: 0.9+0.1=1.0
FedExExpress
Tracking: 6841 8348 8841
BS-F1-1-1.0
BS-F1-1-2.0
BS-F1-1-3.0
BS-F1-1-4.0
BS-F1-1-5.0



1745043

*Jennifer Gambill* *7 June 2024 8:29 PM*

These samples are for ROUXOCA. Please see attached COC.

BS-F1-1.pdf

Please log for a next day turn.

*Matthew Shacklock* *10 June 2024 9:04 AM*

L1745043 due 6/11/24

Company Name/Address:
**Roux - Oakland, CA**

**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Billing Information:
**Accounts Payable**
**555 12th Street**
**Suite 250**
**Oakland, CA 94607**

Pres Chk

Report to:
**Josh Osborne**

Email To:
**josborne@rouxinc.com;rmaxwell@rouxinc.com**

Project Description:
**AB&I Redevelopment**

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: **415-967-6000**

Client Project #
Roux Associates, Inc.

Lab Project #
**ROUXOCA-CA**

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0030S000

Collected by (signature):
Immediately
Packed on Ice N ____ Y X

***Rush?*** (Lab MUST Be Notified)
____ Same Day ____ Five Day
X Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #
P1076441

Date Results Needed

No. of Cntrs 10 6/24 MS

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS-F1-1-1.0 | Grab | SS | 1.0 | 5/28/2024 | 1555 | 3 4 | E | ● | ● | ● | ● | | | 01 |
| BS-F1-1-2.0 | Grab | SS | 2.0 | 5/28/2024 | 1605 | 4 3 | E | ● | ● | ● | ● | ● | | 02 |
| BS-F1-1-3.0 | Grab | SS | 3.0 | 5/28/2024 | 1610 | 4 | ● | ● | ● | ○ | ● | ● | | 03 |
| BS-F1-1-4.0 | Grab | SS | 4.0 | 5/28/2024 | 1615 | 4 | E | ● | ○ | ○ | E | ● | | 04 |
| BS-F1-1-5.0 | Grab | SS | 5.0 | 5/28/2024 | 1620 | 4 | ● | ● | ○ | ○ | E | ● | | 05 |

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1745043

Table #

Acctnum: **ROUXOCA**
Template: **T253291**
Prelogin: **P1076441**
PM: **3500 - Jennifer Gambill**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:** ● = ANALYZE ○ = HOLD
E = Extract and Hold

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: Y __N
RAD Screen <0.5 mR/hr: Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 6.9 +0.1-1.0 °C Bottles Received: 19 | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 5/30/24 Time: 0960 | Hold: Condition: NCF / OK |

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1753333 |
| Samples Received: | 05/25/2024 |
| Project Number: | ROUX ASSOCIATES, INC |
| Description: | AB&I Redevelopment |
| Site: | AB&I FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G-D3-1-3.0 L1753333-01 Solid

Collected by: JA, DB
Collected date/time: 05/24/24 14:50
Received date/time: 05/25/24 12:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2317689 | 1 | 07/05/24 12:12 | 07/05/24 12:28 | KDW | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2317721 | 1 | 07/05/24 10:42 | 07/05/24 19:10 | NWH | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/08/24 16:31
Level II Report - Version 2: 08/16/24 10:56

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-D3-1-3.0 | L1753333-01 | PCB 1242 | 0.0271 | J | 0.0141 | 0.0408 | 1 | 07/05/2024 19:10 | WG2317721 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 83.4 | | 1 | 07/05/2024 12:28 | WG2317689 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| PCB 1016 | U | | 0.0141 | 0.0408 | 1 | 07/05/2024 19:10 | WG2317721 |
| PCB 1221 | U | | 0.0141 | 0.0408 | 1 | 07/05/2024 19:10 | WG2317721 |
| PCB 1232 | U | | 0.0141 | 0.0408 | 1 | 07/05/2024 19:10 | WG2317721 |
| PCB 1242 | 0.0271 | J | 0.0141 | 0.0408 | 1 | 07/05/2024 19:10 | WG2317721 |
| PCB 1248 | U | | 0.00885 | 0.0204 | 1 | 07/05/2024 19:10 | WG2317721 |
| PCB 1254 | U | | 0.00885 | 0.0204 | 1 | 07/05/2024 19:10 | WG2317721 |
| PCB 1260 | U | | 0.00885 | 0.0204 | 1 | 07/05/2024 19:10 | WG2317721 |
| *(S) Decachlorobiphenyl* | *72.1* | | | *10.0-135* | | *07/05/2024 19:10* | WG2317721 |
| *(S) Tetrachloro-m-xylene* | *90.6* | | | *10.0-139* | | *07/05/2024 19:10* | WG2317721 |

## Method Blank (MB)

(MB) R4090663-1 07/05/24 12:28

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1753143-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1753143-06 07/05/24 12:28 • (DUP) R4090663-3 07/05/24 12:28

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 76.1 | 76.0 | 1 | 0.148 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4090663-2 07/05/24 12:28

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# WG2317721

Polychlorinated Biphenyls (GC) by Method 8082

# QUALITY CONTROL SUMMARY

L1753333-01

## Method Blank (MB)

(MB) R4090612-1 07/05/24 18:53

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *95.2* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *104* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4090612-2 07/05/24 19:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.165 | 98.8 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.166 | 99.4 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *100* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *110* | *10.0-139* | |

## L1753005-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1753005-08 07/05/24 20:04 • (MS) R4090612-3 07/05/24 20:12 • (MSD) R4090612-4 07/05/24 20:21

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.219 | U | 0.168 | 0.171 | 76.7 | 77.4 | 1 | 10.0-160 | | | 1.59 | 37 |
| PCB 1260 | 0.219 | U | 0.148 | 0.152 | 67.5 | 68.9 | 1 | 10.0-160 | | | 2.69 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *71.4* | *72.1* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *93.9* | *94.1* | | *10.0-139* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Chain of Custody Page 4 of 4

| Company Name/Address: | Billing Information: | Pres Chk |
|---|---|---|
| Roux - Oakland, CA<br>555 12th Street<br>Suite 250<br>Oakland. CA 94607 | Accounts Payable<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 | |
| Report to: Josh Osborne | Email To: Josborne@rouxinc.com;rmaxwell@rouxinc.com | |
| Project Description: AB&I Redevelopment | City/State Collected: Oakland, CA | Please Circle: PT MT CT ET |
| Phone: 415-967-6000 | Client Project # Roux Associates, Inc. | Lab Project # ROUXOCA-CA |
| Collected by (print): J. Aguayo/D. Bailey | Site/Facility ID # AB&I Foundry | P.O. # 1793.003.0S000 |
| Collected by (signature): Immediately Packed on Ice N ___ Y X | Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day _X_ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day<br>Date Results Needed | Quote # P1076441 |

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-D3-1-1.0 | Grab | SS | 1.0 | 5/24/24 | 1438 | 3/4 | ○ | ○ | ● | ● | ● | | | -24 |
| G-D3-1-2.0 | Grab | SS | 2.0 | | 1444 | 4 | ○ | ○ | ● | ○ | ● | ● | | -25 |
| G-D3-1-3.0 | Grab | SS | 3.0 | | 1450 | 4 | ● | ● | ● | ○ | ● | ● | | -26 |
| G-D3-1-4.0 | Grab | SS | 4.0 | | 1457 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -27 |
| G-D3-1-5.0 | Grab | SS | 5.0 | ↓ | 1500 | 4 | ● | ● | ○ | ○ | ○ | ● | | -28 |
| | | SS | | | | | | | | | | | | |

..61

SDG # L1740005 5/31/24

Table # L1753333

Acctnum: ROUXOCA

Template: T253291

Prelogin: P1076441

PM: 3500 - Jennifer Gambill

PB:

Shipped Via: FedEX Ground

Pace MT JULIET, TN

11065 Lebanon Rd Mount Juliet, TN 37122

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: ● = ANALYZE ○ = HOLD

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| If Applicable | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |
| RAD Screen <0.5 mR/hr: | | Y N |

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| | 05/24/24 | 1609 | Pace | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| Pace | 5/24/24 | 1650 | SWA Cross | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: NCF / OK |
| | | | Clifton Dragon | 5/25/24 | 1200 | | |

## ROUXOCA / L1740668 / Re-log

R2/R3/R4/RX/EX

Per client request, please re-log sample:

G-D3-1-3.0 / L1740668-23

For PCBs:

SV8082
TS (already finished under LG:DONE:WG2295076 WETP:DONE:WG2295890 WET:DONE:WG2295890)

Please log to a new SDG on a 5 day turn, RX.

**Time estimate:** oh **Time spent:** oh

**Members**


Jennifer Gambill

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1754750 |
| Samples Received: | 05/31/2024 |
| Project Number: | ROUX ASSOCIATES, IN |
| Description: | AB&I Redevelopment |
| Site: | AB&I FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G-H3-1-4.0 L1754750-01 Solid

Collected by: JA/DB
Collected date/time: 05/30/24 10:35
Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2303966 | 1 | 06/13/24 09:24 | 06/13/24 09:37 | JAV | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2322299 | 1 | 07/13/24 22:10 | 07/14/24 06:44 | LTB | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2322299 | 1 | 07/13/24 22:10 | 07/17/24 03:36 | RDH | Mt. Juliet, TN |

## BS-I1-1-5.0 L1754750-02 Solid

Collected by: JA/DB
Collected date/time: 05/30/24 08:35
Received date/time: 05/31/24 13:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2297636 | 1 | 06/03/24 15:23 | 06/03/24 15:32 | JAV | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2323548 | 1 | 07/16/24 09:14 | 07/16/24 11:14 | DJS | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/18/24 16:37
Level II Report - Version 2: 08/16/24 10:52

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Metals (ICP) by Method 6010B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BS-I1-1-5.0 | L1754750-02 | Arsenic | 6.35 | | 0.691 | 2.67 | 1 | 07/16/2024 11:14 | WG2323548 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G-H3-1-4.0 | L1754750-01 | PCB 1260 | 0.0562 | | 0.00911 | 0.0210 | 1 | 07/17/2024 03:36 | WG2322299 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.0 | | 1 | 06/13/2024 09:37 | WG2303966 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0146 | 0.0420 | 1 | 07/14/2024 06:44 | WG2322299 |
| PCB 1221 | U | | 0.0146 | 0.0420 | 1 | 07/14/2024 06:44 | WG2322299 |
| PCB 1232 | U | | 0.0146 | 0.0420 | 1 | 07/14/2024 06:44 | WG2322299 |
| PCB 1242 | U | | 0.0146 | 0.0420 | 1 | 07/14/2024 06:44 | WG2322299 |
| PCB 1248 | U | | 0.00911 | 0.0210 | 1 | 07/14/2024 06:44 | WG2322299 |
| PCB 1254 | U | | 0.00911 | 0.0210 | 1 | 07/14/2024 06:44 | WG2322299 |
| PCB 1260 | 0.0562 | | 0.00911 | 0.0210 | 1 | 07/17/2024 03:36 | WG2322299 |
| *(S) Decachlorobiphenyl* | *74.2* | | | *10.0-135* | | *07/17/2024 03:36* | WG2322299 |
| *(S) Decachlorobiphenyl* | *67.7* | | | *10.0-135* | | *07/14/2024 06:44* | WG2322299 |
| *(S) Tetrachloro-m-xylene* | *69.7* | | | *10.0-139* | | *07/14/2024 06:44* | WG2322299 |
| *(S) Tetrachloro-m-xylene* | *75.6* | | | *10.0-139* | | *07/17/2024 03:36* | WG2322299 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.0 | | 1 | 06/03/2024 15:32 | WG2297636 |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 6.35 | | 0.691 | 2.67 | 1 | 07/16/2024 11:14 | WG2323548 |

# QUALITY CONTROL SUMMARY

L1754750-02

## Method Blank (MB)

(MB) R4076803-1 06/03/24 15:32

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1741921-44 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-44 06/03/24 15:32 • (DUP) R4076803-3 06/03/24 15:32

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 93.2 | 93.2 | 1 | 0.0471 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076803-2 06/03/24 15:32

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4081625-1 06/13/24 09:37

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1741921-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1741921-11 06/13/24 09:37 • (DUP) R4081625-3 06/13/24 09:37

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 79.9 | 85.9 | 1 | 7.16 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4081625-2 06/13/24 09:37

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4094396-1 07/16/24 11:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.518 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4094396-2 07/16/24 11:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 99.0 | 99.0 | 80.0-120 | |

## L1756700-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1756700-01 07/16/24 11:29 • (MS) R4094396-5 07/16/24 11:34 • (MSD) R4094396-6 07/16/24 11:35

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 100 | 3.44 | 96.1 | 90.4 | 92.6 | 87.0 | 1 | 75.0-125 | | | 6.02 | 20 |

## Method Blank (MB)

(MB) R4094404-1 07/14/24 04:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *91.3* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *79.7* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4094404-2 07/14/24 05:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.133 | 79.6 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.135 | 80.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *96.5* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *87.7* | *10.0-139* | |

## L1754706-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1754706-01 07/14/24 05:35 • (MS) R4094404-3 07/14/24 05:45 • (MSD) R4094404-4 07/14/24 05:55

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.182 | U | 0.105 | 0.0888 | 57.7 | 48.7 | 1 | 10.0-160 | | | 16.8 | 37 |
| PCB 1260 | 0.182 | U | 0.113 | 0.0874 | 62.3 | 48.0 | 1 | 10.0-160 | | | 26.0 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *59.2* | *50.6* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *56.6* | *50.3* | | *10.0-139* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to: Josh Osborne

Email To: josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description: AB&I Redevelopment

City/State Collected: Oakland CA

Please Circle: PT MT CT ET

Phone: 415-967-6000

Client Project # ABKI

Lab Project # ROUXOCA-CA

Collected by (print): T. Aguayo

Site/Facility ID # —

P.O. # —

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote # —

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 10

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

SDG # L1541921

Table # L1754750

Acctnum: ROUXOCA

Template: T253291

Prelogin: P1076441

PM: 3500 - Jennifer Gambill

PB:

Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ROCAER 4ozClr-NoPres | ROCA 40mlAmb/MeOH10ml/Syr | 16010CAM17 4ozClr-NoPres | V8082 4ozClr-NoPres | V8270 4ozClr-NoPres | 8260 40mlAmb/MeOH10ml/Syr | H2O2 | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/WC-MW-1-1.0 | Grab | SS | 1 | 05/30/24 | 1215 | 3 | | | X | X | X | | X | | -08 |
| G/WC-MW-1-2.0 | | SS | 2 | | 1225 | 4 | | | X | | X | X | X | | -09 |
| G/WC-MW-1-3.0 | | SS | 3 | | 1230 | 4 | X | X | X | | | | X | | -10 |
| G/WC-MW-1-4.0 | | SS | 4 | | 1240 | 4 | | | | | | | X | | -11 |
| G/WC-MW-1-5.0 | | SS | 5 | | 1250 | 4 | X | X | | | | X | X | | -12 |
| G-MW-1-1.0 | | SS | 1 | | 1005 | 2 | | | X | X | X | | X | | -13 |
| G-MW-1-2.0 | | SS | 2 | | 1010 | 4 | | | X | | X | X | X | | -14 |
| G-MW-1-3.0 | | SS | 3 | | 1025 | 4 | X | X | X | | X | | X | | -15 |
| G-MW-1-4.0 | | SS | 4 | | 1035 | 4 | | | | | | | X | | -16 |
| G-MW-1-5.0 | ↓ | SS | 5 | ↓ | 1040 | 4 | X | X | | | | | X | | -17 |

-01

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Samples returned via: ___UPS ___FedEx ___Courier _____

Tracking #

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeOH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/30/24 | 1515 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 5/30/24 | 16:30 | SWA CARCO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | CRobello | 05/31/24 1300 | |

N 7/10/24

5/31/24

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland, CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to:
Josh Osborne

Email To:
josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description:
AB&I Redevelopment

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: 415-967-6000

Client Project #
Roux Associates, Inc.

Lab Project #
ROUXOCA-CA

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.00305000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS41-1-1.0 | Grab | SS | 1.0 | 5/30/24 | 815 | 2 | ○ | ○ | ● | ● | ● | | | 43 |
| BS41-1-2.0 | Grab | SS | 2.0 | | 820 | 3 | ○ | ○ | ● | ○ | ● | ● | | 44 |
| BS41-1-3.0 | Grab | SS | 3.0 | | 825 | 4 | ● | ● | ● | ○ | ● | ● | | 45 |
| BS41-1-4.0 | Grab | SS | 4.0 | | 830 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | 46 |
| BS41-1-5.0 | Grab | SS | 5.0 | | 835 | 4 | ● | ● | ○ | ○ | ○ | ● | | 47 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

-02

Analysis / Container / Preservative

Chain of Custody Page 2 of 10

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

SDG # ~~LPH192~~

Table # L175Y750

Acctnum: ROUXOCA

Template: T253291

Prelogin: P1076441

PM: 3500 - Jennifer Gambill

PB:

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
● = ANALYZE
○ = HOLD

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeOH TBR | |
|---|---|---|---|---|---|
| | 5/30/24 | 1520 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time |
| | 5/30/24 | 16:30 | SWACRCD | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | CRodell | 05.31.24 1300 | |

## ROUXOCA / L1741921 / Re-log

R2/R3/R4/RX/EX

Please re-log the following samples as requested:

G-H3-1-4.0 / L1741921-16 – adding TS and SV8082
TS analyzed under LG:DONE:WG2303765 WETP:DONE:WG2303966 WET:DONE:WG2303966

BS-I1-1-5.0 / L1741921-47 – adding TS and ASICP
TS analyzed under LG:DONE:WG2296896 WETP:DONE:WG2297636 WET:DONE:WG2297636

Please log to a new SDG on a 5 day turn.

**Time estimate:** oh **Time spent:** oh

**Members**

Jennifer Gambill

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1754913 |
| Samples Received: | 05/29/2024 |
| Project Number: | 1793.00305000 |
| Description: | AB&I Redevelopment |
| Site: | AB&I |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## G/BS-D4-1-3.0 L1754913-06 Solid

Collected by: J.A./A.V./J.C/D.B.
Collected date/time: 05/28/24 08:55
Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2296009 | 1 | 05/31/24 07:05 | 05/31/24 07:14 | JAV | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2322299 | 1 | 07/13/24 22:10 | 07/14/24 07:33 | LTB | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2322299 | 1 | 07/13/24 22:10 | 07/17/24 03:45 | RDH | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/18/24 16:37
Level II Report - Version 2: 08/16/24 10:53
Level II Report - Version 3: 09/05/24 17:40

## Project Narrative

The following report has been revised to include the MDL information.

# DETECTION SUMMARY

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-3.0 | L1754913-06 | PCB 1254 | 0.251 | | 0.00823 | 0.0189 | 1 | 07/17/2024 03:45 | WG2322299 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.7 | | 1 | 05/31/2024 07:14 | WG2296009 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0132 | 0.0379 | 1 | 07/14/2024 07:33 | WG2322299 |
| PCB 1221 | U | | 0.0132 | 0.0379 | 1 | 07/14/2024 07:33 | WG2322299 |
| PCB 1232 | U | | 0.0132 | 0.0379 | 1 | 07/14/2024 07:33 | WG2322299 |
| PCB 1242 | U | | 0.0132 | 0.0379 | 1 | 07/14/2024 07:33 | WG2322299 |
| PCB 1248 | U | | 0.00823 | 0.0189 | 1 | 07/14/2024 07:33 | WG2322299 |
| PCB 1254 | 0.251 | | 0.00823 | 0.0189 | 1 | 07/17/2024 03:45 | WG2322299 |
| PCB 1260 | U | | 0.00823 | 0.0189 | 1 | 07/14/2024 07:33 | WG2322299 |
| *(S) Decachlorobiphenyl* | *74.1* | | | *10.0-135* | | *07/14/2024 07:33* | WG2322299 |
| *(S) Decachlorobiphenyl* | *72.9* | | | *10.0-135* | | *07/17/2024 03:45* | WG2322299 |
| *(S) Tetrachloro-m-xylene* | *74.5* | | | *10.0-139* | | *07/17/2024 03:45* | WG2322299 |
| *(S) Tetrachloro-m-xylene* | *65.8* | | | *10.0-139* | | *07/14/2024 07:33* | WG2322299 |

## Method Blank (MB)

(MB) R4076000-1 05/31/24 07:14

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1740925-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1740925-04 05/31/24 07:14 • (DUP) R4076000-3 05/31/24 07:14

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 94.4 | 95.1 | 1 | 0.777 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4076000-2 05/31/24 07:14

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

# QUALITY CONTROL SUMMARY

L1754913-06

## Method Blank (MB)

(MB) R4094404-1 07/14/24 04:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *91.3* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *79.7* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4094404-2 07/14/24 05:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.133 | 79.6 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.135 | 80.8 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *96.5* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *87.7* | *10.0-139* | |

## L1754706-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1754706-01 07/14/24 05:35 • (MS) R4094404-3 07/14/24 05:45 • (MSD) R4094404-4 07/14/24 05:55

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.182 | U | 0.105 | 0.0888 | 57.7 | 48.7 | 1 | 10.0-160 | | | 16.8 | 37 |
| PCB 1260 | 0.182 | U | 0.113 | 0.0874 | 62.3 | 48.0 | 1 | 10.0-160 | | | 26.0 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *59.2* | *50.6* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *56.6* | *50.3* | | *10.0-139* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
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| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
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| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| | The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland. CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to:
Josh Osborne

Email To:
josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description:
AB&I Redevelopment

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: 415-967-6000

Client Project #
Roux Associates, Inc.

Lab Project #
ROUXOCA-CA

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1758.0330S000

Collected by (signature):

Immediately Packed on Ice N ___ Y X

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-1.0 | Grab | SS | 1.0 | 05/28/24 | 0845 | 3 | ○ | ○ | ● | ● | ● | | | -04 |
| G/BS-D4-1-2.0 | Grab | SS | 2.0 | | 0850 | 4 | ○ | ○ | ● | ○ | ● | ● | | -05 |
| G/SS-D4-1-3.0 | Grab | SS | 3.0 | | 0855 | 4 | ● | ● | ● | ○ | ● | ● | | -06 |
| G/BS-D4-1-4.0 | Grab | SS | 4.0 | | 0900 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -07 |
| G/BS-D4-1-5.0 | Grab | SS | 5.0 | | 0920 | 4 | ● | ● | ○ | ○ | ○ | ● | | -08 |
| | | SS | | | | | | | | | | | | |

-06

Chain of Custody Page 2 of 4

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~L1740925~~
Table #
Acctnum: ROUXOCA
Template: T253291
Prelogin: P1076441
PM: 3500 - Jennifer Gambill
PB:
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: ● = ANALYZE ○ = HOLD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Rec.pt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/28/24 | 1515 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 52824 | 18:30 | SWA CARGO | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | Ashley Bartlett | 05/29/2024 0800 | |

# ANALYTICAL REPORT

October 01, 2024

Revised Report

## Roux - Oakland, CA

| | |
|---|---|
| Sample Delivery Group: | L1758292 |
| Samples Received: | 05/29/2024 |
| Project Number: | ROUX ASSOCIATES INC |
| Description: | AB&I Redevlopment |
| Site: | ABI FOUNDRY |
| Report To: | Joshua Osborne<br>555 12th Street<br>Suite 250<br>Oakland, CA 94607 |

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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Sr: Sample Results 6

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# SAMPLE SUMMARY

## G/BS-D4-1-4.0 L1758292-01 Solid

Collected by: Dylan B
Collected date/time: 05/28/24 09:00
Received date/time: 05/29/24 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2300491 | 1 | 06/07/24 12:32 | 06/07/24 12:45 | JAV | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG2330421 | 1 | 07/26/24 07:48 | 07/26/24 14:46 | LTB | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer Gambill
Project Manager

## Report Revision History

Level II Report - Version 1: 07/29/24 14:03
Level II Report - Version 2: 08/16/24 10:56

## Project Narrative

The following report has been revised to include the MDL information.

GeoTracker EDD

# DETECTION SUMMARY

## Polychlorinated Biphenyls (GC) by Method 8082

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| G/BS-D4-1-4.0 | L1758292-01 | PCB 1260 | 0.145 | | 0.00930 | 0.0214 | 1 | 07/26/2024 14:46 | WG2330421 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.3 | | 1 | 06/07/2024 12:45 | WG2300491 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| PCB 1016 | U | | 0.0149 | 0.0428 | 1 | 07/26/2024 14:46 | WG2330421 |
| PCB 1221 | U | | 0.0149 | 0.0428 | 1 | 07/26/2024 14:46 | WG2330421 |
| PCB 1232 | U | | 0.0149 | 0.0428 | 1 | 07/26/2024 14:46 | WG2330421 |
| PCB 1242 | U | | 0.0149 | 0.0428 | 1 | 07/26/2024 14:46 | WG2330421 |
| PCB 1248 | U | | 0.00930 | 0.0214 | 1 | 07/26/2024 14:46 | WG2330421 |
| PCB 1254 | U | | 0.00930 | 0.0214 | 1 | 07/26/2024 14:46 | WG2330421 |
| PCB 1260 | 0.145 | | 0.00930 | 0.0214 | 1 | 07/26/2024 14:46 | WG2330421 |
| *(S) Decachlorobiphenyl* | *59.9* | | | *10.0-135* | | *07/26/2024 14:46* | WG2330421 |
| *(S) Tetrachloro-m-xylene* | *74.8* | | | *10.0-139* | | *07/26/2024 14:46* | WG2330421 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4078969-1 06/07/24 12:45

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1740925-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1740925-17 06/07/24 12:45 • (DUP) R4078969-3 06/07/24 12:45

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 83.7 | 83.5 | 1 | 0.149 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4078969-2 06/07/24 12:45

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4099211-1 07/26/24 13:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.0118 | 0.0340 |
| PCB 1221 | U | | 0.0118 | 0.0340 |
| PCB 1232 | U | | 0.0118 | 0.0340 |
| PCB 1242 | U | | 0.0118 | 0.0340 |
| PCB 1248 | U | | 0.00738 | 0.0170 |
| PCB 1254 | U | | 0.00738 | 0.0170 |
| PCB 1260 | U | | 0.00738 | 0.0170 |
| *(S) Decachlorobiphenyl* | *88.9* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *95.6* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R4099211-2 07/26/24 13:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1016 | 0.167 | 0.144 | 86.2 | 36.0-141 | |
| PCB 1260 | 0.167 | 0.146 | 87.4 | 37.0-145 | |
| *(S) Decachlorobiphenyl* | | | *88.3* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *93.7* | *10.0-139* | |

## L1758180-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758180-05 07/26/24 13:37 • (MS) R4099211-3 07/26/24 13:47 • (MSD) R4099211-4 07/26/24 13:57

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 0.200 | U | 0.151 | 0.167 | 75.4 | 83.7 | 1 | 10.0-160 | | | 9.81 | 37 |
| PCB 1260 | 0.200 | U | 0.189 | 0.169 | 94.6 | 84.9 | 1 | 10.0-160 | | | 11.4 | 38 |
| *(S) Decachlorobiphenyl* | | | | | *58.3* | *69.1* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *61.3* | *78.7* | | *10.0-139* | | | | |

# GLOSSARY OF TERMS

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| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
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| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
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| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
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| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
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| Qualifier | Description |
|---|---|
| | The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Roux - Oakland, CA**

555 12th Street
Suite 250
Oakland. CA 94607

Billing Information:
Accounts Payable
555 12th Street
Suite 250
Oakland, CA 94607

Pres Chk

Report to:
Josh Osborne

Email To:
josborne@rouxinc.com;rmaxwell@rouxinc.com

Project Description:
AB&I Redevelopment

City/State Collected: Oakland, CA

Please Circle: PT MT CT ET

Phone: 415-967-6000

Client Project #
Roux Associates, Inc.

Lab Project #
ROUXOCA-CA

Collected by (print):
J. Aguayo/D. Bailey

Site/Facility ID #
AB&I Foundry

P.O. #
1793.0005000

Collected by (signature):

Immediately
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
P1076441

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCAER 4ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | M6010CAM17 4ozClr-NoPres | SV8082 4ozClr-NoPres | SV8270 4ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GBS-D4-1-1.0 | Grab | SS | 1.0 | 05/28/24 | 0845 | 3 | ○ | ○ | ● | ● | ● | | | -04 |
| GBS-D4-1-2.0 | Grab | SS | 2.0 | | 0850 | 4 | ○ | ○ | ● | ○ | ● | ● | | -05 |
| GBS-D4-1-3.0 | Grab | SS | 3.0 | | 0855 | 4 | ● | ● | ● | ○ | ● | ● | | -06 |
| GBS-D4-1-4.0 | Grab | SS | 4.0 | | 0900 | 4 | ○ | ○ | ○ | ○ | ○ | ○ | | -07 |
| GBS-D4-1-5.0 | Grab | SS | 5.0 | ↓ | 0920 | 4 | ● | ● | ○ | ○ | ○ | ● | | -08 |
| | | SS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

-01

Chain of Custody Page 2 of 4

Pace

MT JULIET, TN

SDG # L1758292

Table # L1758292

Acctnum: ROUXOCA

Template: T253291

Prelogin: P1076441

PM: 3500 - Jennifer Gambill

PB:

Shipped Via: FedEX Ground

5/29/24

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
● = ANALYZE
○ = HOLD

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct Bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| If Applicable | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |
| RAD Screen <0.5 mR/hr: | | Y N |

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeOH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 05/28/24 | 1515 | | | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | 52624 | 16:30 | SWATCARGO | | |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | Ashley Booth | 05/29/2024 0800 | |

## ROUXOCA / L1740925 / Re-log

R2/R3/R4/RX/EX

Per client request, please pull sample:

G/BS-D4-1-4.0 / L1740925-07

From extended hold to be analyzed for:

SV8082
TS (LG:DONE:WG2299971 WETP:DONE:WG2300491 WET:DONE:WG2300491)

To a new SDG on a 5 day turn, RX.

**Time estimate:** oh **Time spent:** oh

**Members**

Jennifer Gambill

# APPENDIX I

Groundwater Sampling Forms

# GROUNDWATER SAMPLING FORM

Project Name: ABJI — Well No.: GW-1-1

Project Number: 179300030800 — Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp Well

Recorded By: CR — Sampled by: CR — Date: 5/23/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: ☐ 2-inch ☐ 4-inch ☐ Other Prepack 2.25 Case 1"

Well Total Depth (TD, ft. below TOC): 15'

Depth to Water (WL, ft. below TOC): 8.38'

Depth to free phase hydrocarbons (FP, ft. below TOC): N/A

Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD

☐ Bailer \ Type

☒ Pump \ Type Bladder

☐ Other

PUMP INTAKE

☐ Near top Depth (ft)

☒ Near Bottom Depth (ft) 10'

☐ Other

PURGE VOLUME CALCULATION

6.62 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals .57 CALCULATED PURGE VOLUME

Total Purge Time: 11.4 (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)

Recharge Rate: ~ Purge Rate: 50 mL/min Meter Type: YSI

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp | ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|---|
| 1224 / DTW 8.38 | | µS/cm | | | | |
| 1303 / 0.00 | 7.25 | 1152 | 23.8 | | >1000 | brown / none |
| 1309 / 0.285 | 6.93 | 1326 | 22.9 | | >1000 | brown / none |
| 1315 / 0.57 | 6.89 | 1409 | 22.7 | | >1000 | brown / none |
| / | | | | | | |
| / | | | | | | |
| / | | | | | | |
| / | | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD — Date/Time Sampled: 5/23/24, 1320

Bailer - Type ☐ — Sample port ☐ — Other ☒ Bladder

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS — Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. µS/cm (mmhos/cm) | Temp | ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|---|
| 5/23/24 / 1320 / | 6.89 | 1409 | 22.7 | | >1000 | brown / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-1-1 | 9 | COC | Various | Pace | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-1-1 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABRI | Well No.: GW-2-1
Project Number: 1793.0030800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other TEMP well
Recorded By: CP | Sampled by: CP | Date: 5/23/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other Pre pack 2.25 1" case
Well Total Depth (TD, ft. below TOC): 15
Depth to Water (WL, ft. below TOC): 8.74
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type Bladder
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 14
☐ Other

PURGE VOLUME CALCULATION

6.26 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals .54 CALCULATED PURGE VOLUME

Total Purge Time: 11 (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: ~ Purge Rate: 50mL/min

gals 0.54 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type: YSI

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1420 DTW-8.74 | | uS/cm | | | |
| 1433 / 0.00 | 7.29 | 2107 | 22.5 | 959 | Cloudy brown/none |
| 1440 / 0.27 | 7.51 | 2101 | 21.9 | >1000 | cloudy brown |
| 1444 / 0.54 | 7.70 | 2088 | 21.5 | 948 | Cloudy brown |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 5/23/24, 1444
Bailer - Type ☐ | Sample port ☐ | Other ☒ Bladder

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/23/24, 1445 / | 7.70 | 2088 | 21.5 | 948 | Cloudy brown |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-2-1 | 9 | COC | Various | Pace | Ø |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-2-1 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABBI
Project Number: 1793.0030800
Recorded By: CR
Well No.: GW-2-2
Well Type: ☐ Monitor ☐ Extraction ☒ Other: Temp well
Sampled by: CR
Date: 5/24/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: 2.25 Prepack
☐ 2-inch ☐ 4-inch ☒ Other: 1" case
Well Total Depth (TD, ft. below TOC): 30'
Depth to Water (WL, ft. below TOC): 14.05'
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged
☐ 4 ☐ 10 ☒ Other: 1

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type: Bladder
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☒ Near Bottom Depth (ft): 20'
☐ Other

PURGE VOLUME CALCULATION

| Water Column Length | x Multiplier | x No. Vols | = | |
|---|---|---|---|---|
| 15.95 | 0.085 | 1 | gals 1.36 | CALCULATED PURGE VOLUME |

Total Purge Time: 27.2 (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: —
Purge Rate: 50 mL/min
gals 1.36 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS
Meter Type: YSI

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 0720 DTW-14.05 | | uS/cm | | | |
| 0738 / 0.00 | 6.80 | 2324 | 18.2 | >1000 | Brown / none |
| 0747 / 0.68 | 6.98 | 2287 | 17.8 | >1000 | Brown / none |
| 0757 / 1.36 | 7.08 | 2295 | 18.1 | 296 | slight brown / none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge:

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD
Date/Time Sampled: 5/24/24 0757
Bailer - Type: ☐
Sample port: ☐
Other: ☒ bladder

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS
Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24 0800 / | 7.08 | 2295 | 18.1 | 296 | slight brown / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-2-2 | 9 | COC | Various | Pace | |
| DUP-2 | 9 | COC | Various | Pace | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-2-2 | DUP-2 |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABI | Well No.: GW-3-1
Project Number: 1793.00 30800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp Well
Recorded By: DB | Sampled by: DB | Date: 5/24/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other: proposed 2.25" cave 4"
Well Total Depth (TD, ft. below TOC): 15'
Depth to Water (WL, ft. below TOC): 8.22
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other: 1

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type: Bladder
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☒ Near Bottom Depth (ft): 13'
☐ Other

PURGE VOLUME CALCULATION

6.78 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals 0.58 CALCULATED PURGE VOLUME

Total Purge Time: 12 (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: - Purge Rate: 50mL/min Meter Type: YSI

gals 0.58 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

| Time / Gallons | pH | Cond. (~~mmhos~~/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 0753 / DTW - 8.22 | | NS/CM | | | |
| 820 / 0.00 | 6.98 | 4084 | 18.6 | 854.66 | brown / none |
| 825 ~~DTW~~ / 0.385 | 6.99 | 4054 | 18.8 | 568.12 | brown / none |
| 832 / 0.58 | 6.99 | 4054 | 18.7 | 373.41 | brown / none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/24/24 832
Bailer - Type ☐ | Sample port ☐ | Meter Type: YSI | Other ☒ Bladder

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24 / 832 / | 6.99 | 4054 | 18.7 | 373.41 | brown / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-3-1 | 9 | COC | various | Pace | ~~0~~ |
| | | | | | DTW after sample: 12.42 ft bgs |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-3-1 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ARI | Well No.: GW-3-2
Project Number: 773.0020800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other TEMP WELL
Recorded By: DH | Sampled by: DH | Date: 5/24/24

## WELL PURGING

PURGE VOLUME
Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other CASE 1" (PROPACK 2.25")
Well Total Depth (TD, ft. below TOC): 20'
Depth to Water (WL, ft. below TOC): 8.25
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD
☐ Bailer \ Type
☒ Pump \ Type Bladder
☐ Other

PUMP INTAKE
☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 18'
☐ Other

PURGE VOLUME CALCULATION
11.75 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = 1.00 gals CALCULATED PURGE VOLUME

Total Purge Time: 20 (Multiplier: 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: | Purge Rate: 50 ml/min YSI
1.00 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS | Meter Type:

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp | ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|---|
| 937 / DTW - 8.25 | | | | | | |
| 0952 / 0.00 | 7.02 | 1679 | 18.5 | | 1027.49 | brown / none |
| 1002 / 0.50 | 6.95 | 1693 | 14.0 | | 856.12 | brown / none |
| 1012 / 1.00 | 6.97 | 1656 | 18.6 | | 685.38 | brown / none |
| / | | | | | | |
| / | | | | | | |
| / | | | | | | |
| / | | | | | | |

Comments during well purge:
Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/24/24, 1012
Bailer - Type ☐ | Sample port ☐ | Other ☒ Bladder
GROUNDWATER SAMPLE PARAMETER MEASUREMENTS | Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp | ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|---|
| 5/24/24 1012 / 1012 / 0% | 6.97 | 1656 | 18.6 | | 685.38 | brown / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-3-2 | 9 | COC | Various | PACE | D |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-3-2 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | / |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABT | Well No.: GW-4-1
Project Number: 1793.0030800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp well
Recorded By: CP | Sampled by: CP | Date: 5/24/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: ☐ 2-inch ☐ 4-inch ☐ Other 2.25 Pre pack 1" case
Well Total Depth (TD, ft. below TOC): 15'
Depth to Water (WL, ft. below TOC): 9.15'
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type Bladder
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 10'
☐ Other

PURGE VOLUME CALCULATION

5.85 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = .50 gals CALCULATED PURGE VOLUME

(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)

Total Purge Time: 10
Recharge Rate: ~
Purge Rate: 50mL/min
Meter Type: YSI

0.50 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1045 DTW - 9.15 | | | | | |
| 1050 / 0.00 | 7.28 | 2000 | 17.8 | >1000 | Dark brown/none |
| 1055 / .25 | 7.23 | 1947 | 17.8 | >1000 | Dark brown/none |
| 1100 / .50 | 7.13 | 1617 | 18.0 | >1000 | Dark brown |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD
Bailer - Type ☐
Date/Time Sampled: 5/24/24, 1105
Sample port ☐
Other ☒ Oledolor

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS
Meter Type:

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24, 1105 / | 7.13 | 1617 | 18.0 | >1000 | dark brown |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-4-1 | 9 | COC | Various | Pace | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | Sample DTW 9.15 |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-4-1 | / |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | / |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABI | Well No.: GW-4-2
Project Number: 1793.0030800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp Well
Recorded By: CP | Sampled by: CP | Date: 5/24/24

## WELL PURGING

PURGE VOLUME
Well casing diameter: 2.25 PrePack
☐ 2-inch ☐ 4-inch ☐ Other 1" Screen
Well Total Depth (TD, ft. below TOC): 35'
Depth to Water (WL, ft. below TOC): 8.10'
Depth to free phase hydrocarbons (FP, ft. below TOC): NM
Number of casing volumes to be purged
☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD
☐ Bailer \ Type
☒ Pump \ Type Bladder
☐ Other
PUMP INTAKE
☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 25'
☐ Other

PURGE VOLUME CALCULATION

| Water Column Length | x Multiplier | x No. Vols | = |
|---|---|---|---|
| 26.9 | 0.085 | 1 | gals 2.29 CALCULATED PURGE VOLUME |

Total Purge Time: 46 (Multiplier: 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: — Purge Rate: 50 mL/min Meter Type: YSI
gals 2.29 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

| Time / Gallons | pH | Cond. (~~mmhos/cm~~) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 0927 SWL 8.10 | | CM/US | | | |
| 0937 / 0.00 | 7.31 | 1782 | 17.0 | >1000 | Brown/none |
| 0950 / 1.145 | 7.01 | 1444 | 17.6 | >1000 | Brown/none |
| 1023 / 2.29 | 6.95 | 1394 | 17.2 | 264 | cloudy/none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge
Purge water storage/disposal ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 5/24/24 1025
Bailer - Type ☐ Sample port ☐ Other ☒ Bladder
GROUNDWATER SAMPLE PARAMETER MEASUREMENTS CM/US Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. (~~mmhos/cm~~) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24 1025 / | 6.95 | 1394 | 17.2 | 264 | cloudy/none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-4-2 | 9 | COC | Various | Pace | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-4-2 | / |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABLI | Well No.: GW-05-1
Project Number: 1793.00303000 | Well Type: [X] Monitor [ ] Extraction [X] Other Temp well
Recorded By: AV | Sampled by: AV | Date: 5/21/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other prepack 2.25 casing 1"
Well Total Depth (TD, ft. below TOC): 15'
Depth to Water (WL, ft. below TOC): 5.95'
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: [ ] 4 [ ] 10 [X] Other 1

PURGE METHOD

[ ] Bailer \ Type
[X] Pump \ Type: bladder pump
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other 10'

PURGE VOLUME CALCULATION

~~8.3~~ 2.47 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = ~~0.705~~ gals 0.21 (CALCULATED PURGE VOLUME)

Total Purge Time: 28 min
Recharge Rate: —
(Multiplier: 2" = 0.17, 4" = 0.66, 6" = 1.5)
Purge Rate: 30 mL/min
gals 0.29 (ACTUAL PURGE VOLUME)
Meter Type: YSI

GROUNDWATER PARAMETER MEASUREMENTS

| Time / ~~Gallons~~ mL | pH | µS/cm Cond. (~~mmhos/cm~~) | Temp | [X] deg C [ ] deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|---|
| AV ~~1443 / initial level 5.11'~~ | ~~7.91~~ | | ~~23.1~~ | | | |
| 1443 water level 5.95' bgs | | | | | | |
| 1459 / 0 | 7.41 | 1365 | 23.6 | | 1341.52 | Cloudy, brown |
| 1509 / 500mL | 7.34 | 1498 | 22.9 | | 934.19 | cloudy, brown |
| 1527 / 1400mL | 7.33 | 1491 | 22.8 | | 522.04 | cloudy brown |
| / | | | | | | |
| / | | | | | | |
| / | | | | | | |

Comments during well purge

Purge water storage/disposal: [X] Drummed onsite [ ] Other

## WELL SAMPLING

SAMPLING METHOD: Bailer - Type [ ]
Date/Time Sampled: 1527, 5/21/24
Sample port [ ]
Other [X] Bledolar
Meter Type: YSI

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp | [X] deg C [ ] deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|---|
| 5/21/24 1540 / | 7.33 | 1491 | 22.8 | | 522.04 | Cloudy brown |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-05-1 | 9 | COC | various | PECB | 0 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-05-1 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | 0 |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABSI | Well No.: GW-5-2
Project Number: 1793.0030800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp well
Recorded By: CP | Sampled by: CP | Date: 5/23/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other Prepack 2.25 1" case
Well Total Depth (TD, ft. below TOC): 23'
Depth to Water (WL, ft. below TOC): 7.43'
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type bladder
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 20
☐ Other

PURGE VOLUME CALCULATION

15.57 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals 1.32 CALCULATED PURGE VOLUME

Total Purge Time: 26.4 (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: ~ | Purge Rate: 50 mL/min
gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS | Meter Type: YSI

| Time / Gallons | pH | Cond. (~~mmhos/cm~~ µS/cm) | Temp (☒ deg C ☐ deg F) | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 0757 / DTW-7.43 | | µS/cm | CP ~~1000~~ | | ~~cloudy brown~~ |
| 0850 / 0.00 | 7.10 | 1411 | 20.5 | >1000 | cloudy brown/none |
| 0907 / 0.66 | 6.99 | 1410 | 19.7 | >1000 | cloudy brown/none |
| 0917 / 1.32 | 6.99 | 1406 | 19.0 | >1000 | cloudy brown/none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/23/24 / 0920
Bailer - Type ☐ | Sample port ☐ | Other ☒ Bladder

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS | Meter Type

| Date / Time / % Recharge | pH | Cond. (~~mmhos/cm~~ µS/cm) | Temp (☒ deg C ☐ deg F) | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/23/24 / 0920 / | 6.99 | 1406 | 19.0 | >1000 | Brown/none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-5-2 | 9 | COC | various | Pace | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-05-2 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ARI | Well No.: GW-6-1
Project Number: 1793.003.0800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp Well
Recorded By: DR | Sampled by: DR | Date: 5/24/24

## WELL PURGING

PURGE VOLUME

Well casing diameter
☐ 2-inch ☐ 4-inch ☐ Other

Well Total Depth (TD, ft. below TOC): ~~17.50~~ 17.50
Depth to Water (WL, ft. below TOC): 4.89
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A

Number of casing volumes to be purged
☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD
☐ Bailer \ Type
☒ Pump \ Type Bladder
☐ Other

PUMP INTAKE
☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 15
☐ Other

PURGE VOLUME CALCULATION

12.61 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals 1.07 CALCULATED PURGE VOLUME

Total Purge Time 22
(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate
Purge Rate 50mL/min
gals 1.07 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type YSI

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp | ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|---|
| 1301 / DTW-4.89 | 7.51 | ~~98~~ | ~~18.7~~ | | | DTW |
| 1320 / 0.00 | 7.51 | 989 | 18.7 | | 233.51 | ~~Clear~~/slight brown/none |
| 1331 / 0.535 | 7.39 | 1052 | 18.8 | | 191.27 | clear / none |
| 1342 / 1.07 | 7.45 | 1042 | 18.9 | | 87.81 | clear / none |
| / | | | | | | |
| / | | | | | | |
| / | | | | | | |
| / | | | | | | |

Comments during well purge

Purge water storage/disposal ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 5/24/24 / 1342
Bailer - Type ☒ ~~Bladder~~ Sample port ☐ Other ☒ Bladder
GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type YSI

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp | ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|---|
| 5/24/24 / 1342 / | 7.45 | 1042 | 18.9 | | 87.81 | Clear / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-6-1 | 9 | COC | various | Pace | |
| | | | | | DTW after Sampling - 5.01 ft bgs |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-6-1 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ARI | Well No.: GW-6-2
Project Number: 1793.0030800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp well
Recorded By: DB | Sampled by: DB | Date: 5/24/24

## WELL PURGING

PURGE VOLUME
Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other: piezo 2.25" case 1"
Well Total Depth (TD, ft. below TOC): 22.50
Depth to Water (WL, ft. below TOC): 5.02
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other: 1

PURGE METHOD
☐ Bailer \ Type
☒ Pump \ Type: Bladder
☐ Other

PUMP INTAKE
☐ Near top Depth (ft)
☒ Near Bottom Depth (ft): 21.0
☐ Other

PURGE VOLUME CALCULATION

| Water Column Length | x Multiplier | x No. Vols | = | |
|---|---|---|---|---|
| 17.48 | 0.085 | 1 | | gals 1.49 CALCULATED PURGE VOLUME |

Total Purge Time: 29 (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: — Purge Rate: 50 ml/min Meter Type: YSI

| ACTUAL PURGE VOLUME |
|---|
| gals 1.49 |

GROUNDWATER PARAMETER MEASUREMENTS

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1119 / DTW-5.02 | | | | | |
| 1135 / 0.00 | 7.81 | 994 | 18.2 | 1685.41 | brownish / none |
| 1149 / 0.785 | 7.34 | 1006 | 18.2 | 1402.93 | brown / none |
| 1204 / 1.49 | 7.37 | 1028 | 18.0 | 939.42 | brown / none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal ☐ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/24/24 1204
Bailer - Type ☐ | Sample port ☐ | Other ☒ Bladder
Meter Type: YSI

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24 1204 / | 7.37 | 1028 | 18.0 | 939.42 | brown / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| GW-6-2 | 9 | CoC | various | PACE | D |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| GW-6-2 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABJI | Well No.: P-01
Project Number: 1793.0030800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp well
Recorded By: CP | Sampled by: CP | Date: 5/24/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other 2.25 Prepack 1" case
Well Total Depth (TD, ft. below TOC): 20'
Depth to Water (WL, ft. below TOC): 9.45'
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type: Bladder
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☒ Near Bottom Depth (ft): 15'
☐ Other

PURGE VOLUME CALCULATION

10.55 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals 0.90 CALCULATED PURGE VOLUME

Total Purge Time: 18 (Multiplier: 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: — Purge Rate: 50 mL/min Meter Type: YSI

gals 0.90 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp (☒ deg C ☐ deg F) | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1141 DTW-9.45 | | uS/cm | | | |
| 1144 / 0.00 | 6.99 | 1395 | 17.3 | >1000 | Cloudy brown/none |
| 1153 / 0.45 | 6.81 | 1387 | 17.6 | 551 | cloudy/none |
| 1202 / 0.90 | 6.83 | 1387 | 17.6 | 354 | cloudy/none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/24/24, 1205
Bailer - Type ☐ | Sample port ☐ | Other ☒ Bladder
GROUNDWATER SAMPLE PARAMETER MEASUREMENTS | Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp (☐ deg C ☐ deg F) | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24, 1205 / | | | | | |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| P-01 | 9 | COC | Various | Pace | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | Sample DTW 11.20 |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| P-01 | 1 |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABJF | Well No.: P-02
Project Number: 1793.003080 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp well
Recorded By: CD | Sampled by: CP | Date: 5/24/24

## WELL PURGING

PURGE VOLUME
Well casing diameter: 2.25 PrePack
☐ 2-inch ☐ 4-inch ☐ Other 1" case
Well Total Depth (TD, ft. below TOC): 15'
Depth to Water (WL, ft. below TOC): 6.45
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged
☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD
☐ Bailer \ Type
☒ Pump \ Type Bladder
☐ Other

PUMP INTAKE
☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 10'
☐ Other

PURGE VOLUME CALCULATION

| Water Column Length | x Multiplier | x No. Vols | = |
|---|---|---|---|
| 8.55 | 0.085 | 1 | gals 0.73 CALCULATED PURGE VOLUME |

Total Purge Time: 15 (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: — Purge Rate: 50 mL/min YSI
gals 0.73 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type

| Time / Gallons | pH | Cond. (~~mmhos/cm~~) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1352 DTW 6.45 | | CM/US | | | |
| 1354 / 0.00 | 7.32 | 1866 | 18.6 | >1000 | Dark Brown/none |
| 1401 / 0.365 | 7.29 | 1826 | 18.3 | >1000 | Dark Brown/none |
| 1409 / 0.73 | 7.24 | 1825 | 18.3 | >1000 | Dark Brown/none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 5/24/24 1410
Bailer - Type ☐ Sample port ☐ YSI Other ☒ Bladder
GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24 1410 / | 7.24 | 1824 | 18.3 | >1000 | Dark Brown/none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| P-02 | 9 | COC | Various | Pace | Ø |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| P-02 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ADI | Well No.: P-06
Project Number: 177.00230500 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp Well
Recorded By: Dylan B | Sampled by: Dylan B | Date: 5/28/24

## WELL PURGING

PURGE VOLUME: 2.25" Prepack
Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other 1" PVC
Well Total Depth (TD, ft. below TOC): 10.0
Depth to Water (WL, ft. below TOC): 3.55'
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD: ☐ Bailer \ Type ☐ Pump \ Type ☒ Other Bladder
PUMP INTAKE: ☐ Near top Depth (ft) ☒ Near Bottom Depth (ft) 8.0 ☐ Other

PURGE VOLUME CALCULATION
6.45 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals 0.54 CALCULATED PURGE VOLUME

Total Purge Time: 11 (Multiplier: 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: – Purge Rate: 50ml/min
gals 0.54 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type: YSI

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1345 / DTW-3.55 | | | | | |
| 1357 / 0.00 | 11.02 | 653.4 | 22.8 | 1661.59 | brown / none |
| 1403 / 0.27 | 10.67 | 453.1 | 22.5 | 1018.25 | brown / none |
| 1408 / 0.54 | 10.51 | 415.5 | 22.5 | 872.93 | brown / none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD: Date/Time Sampled 5/28/24
Bailer - Type ☐ Sample port ☐ Other ☒ Bladder
GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/28/24 1408 / | 10.51 | 415.5 | 22.5 | 872.93 | brown / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| P-06 | 9 | CoC | various | Pace | |
| DUP-03 | 9 | CoC | various | Pace | |
| | | | | | |
| | | | | | DTW - 3.81 ft bgs after sampling |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| P-06 | DUP-03 |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABI | Well No.: P-08
Project Number: 1793.00J0500 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp Well
Recorded By: Dylan B | Sampled by: Dylan B | Date: 5/28/24

## WELL PURGING

PURGE VOLUME
Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other 2.25" Pre-pack 1" PVC
Well Total Depth (TD, ft. below TOC): 10.0
Depth to Water (WL, ft. below TOC): 3.12"
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD
☐ Bailer \ Type
☒ Pump \ Type: Bladder
☐ Other

PUMP INTAKE
☐ Near top Depth (ft)
☒ Near Bottom Depth (ft): 8.0
☐ Other

PURGE VOLUME CALCULATION
6.88 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals 0.58 CALCULATED PURGE VOLUME

Total Purge Time: 12
(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: —
Purge Rate: 50 ml/min
gals 0.58 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type: YSI

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1235 / DTW - 3.12" | | | | | |
| 1248 / 0.00 | 8.66 | 2154 | 22.6 | 872.04 | brown / none |
| 1254 / 0.29 | 8.22 | 2170 | 22.3 | 616.21 | brown / none |
| 1300 / 0.59 | 8.23 | 2171 | 22.3 | 384.72 | brown / none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 5/28/24 /
Bailer - Type ☐ Sample port ☐ Other ☒ Bladder
GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/28/24 1300 / | 8.23 | 2171 | 22.3 | 384.72 | brown / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| P-08 | 9 | COC | Various | PACE | |
| | | | | | DTW - 4.10 ft bgs after sampling |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| P-08 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABSI | Well No.: ~~CP GW~~ P-10
Project Number: 1793.00308800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Temp Well
Recorded By: CP | Sampled by: CP | Date: 5/23/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other: Prepack 2.25 case 1"
Well Total Depth (TD, ft. below TOC): 20'
Depth to Water (WL, ft. below TOC): 5.55'
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A

Number of casing volumes to be purged: ☐ 4 ☐ 10 ☐ Other

PURGE VOLUME CALCULATION

14.45 (Water Column Length) x .085 (Multiplier) x 1 (No. Vols) = gals 1.23 CALCULATED PURGE VOLUME

Total Purge Time: 24.6 (Multiplier: 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: | Purge Rate: 50 mL/min | Meter Type: YSI

gals 1.23 ACTUAL PURGE VOLUME

PURGE METHOD

☐ Bailer \ Type:
☒ Pump \ Type: Bladder
☐ Other:

PUMP INTAKE

☐ Near top Depth (ft):
☒ Near Bottom Depth (ft): 15'
☐ Other:

GROUNDWATER PARAMETER MEASUREMENTS

| Time / Gallons | pH | Cond. (~~mmhos/cm~~) | Temp (☒ deg C ☐ deg F) | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1006 / DTW-5.55 | | uS/cm | | | |
| 1057 / 0.00 | 8.19 | 558 | 21.8 | >1000 | Brown / none |
| 1110 / 0.615 | 7.44 | 1126 | 21.4 | >1000 | Brown / none |
| 1122 / 1.23 | 7.26 | 1196 | 21.5 | >100 | Brown / none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge:

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/23/24, 1125

Bailer - Type ☐: | Sample port ☐ | YSI | Other ☒ Bladder

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS | uS/cm | Meter Type:

| Date / Time / % Recharge | pH | Cond. (~~mmhos/cm~~) | Temp (☒ deg C ☐ deg F) | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/23/24, 1125 / | 7.26 | 1196 | 21.5 | >1000 | Brown / none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| P-10 | 9 | COC | Various | Pace | 0 |
| Dup-1 | 9 | COC | Various | Pace | 0 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| P-10 | Dup-1 |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: AB&I | Well No.: P-11
Project Number: 1793.00.30800 | Well Type: ☐ Monitor ☐ Extraction ☒ Other Pump Well
Recorded By: CP | Sampled by: CP | Date: 5/24/24

## WELL PURGING

PURGE VOLUME

Well casing diameter: ☐ 2-inch ☐ 4-inch ☐ Other 2.25 PrePack 1" case

Well Total Depth (TD, ft. below TOC): 15

Depth to Water (WL, ft. below TOC): 4.75

Depth to free phase hydrocarbons (FP, ft. below TOC): N/A

Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type: Bladder
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☒ Near Bottom Depth (ft): 10
☐ Other

PURGE VOLUME CALCULATION

10.25 (Water Column Length) x 0.085 (Multiplier) x 1 (No. Vols) = gals 0.88 CALCULATED PURGE VOLUME

Total Purge Time: 180 (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)

Recharge Rate: | Purge Rate: 50. mL/min YSI

gals 0.88 ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type:

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 1240 DTW - 4.75 | | uS/cm | | | |
| 1245 ; 0.00 | 7.97 | 968 | 18.7 | >1000 | Dark brown/none |
| 1254 ; 0.44 | 7.64 | 951 | 19.2 | >1000 | Dark brown/none |
| 1303 ; 0.88 | 7.51 | 941 | 19.0 | >1000 | Dark brown/none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 5/24/24, 1305

Bailer - Type ☐ | Sample port ☐ | Other ☒ Bladder

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type: YSI

| Date / Time / % Recharge | pH | Cond. uS/cm (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24 ; 1305 / | 7.51 | 941 | 19.0 | >1000 | Dark brown/none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| P-11 | 9 | C°C | Various | Pace | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| P-11 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# GROUNDWATER SAMPLING FORM

Project Name: ABI
Project Number: 1793.0030800
Recorded By: DB
Well No.: P-12
Well Type: ☐ Monitor ☐ Extraction ☒ Other TEMP WELL
Sampled by: DB/CP
Date: 5/24/24

## WELL PURGING

PURGE VOLUME
Well casing diameter: ☐ 2-inch ☐ 4-inch ☒ Other 2.25" prepack 1" PVC
Well Total Depth (TD, ft. below TOC): 10.0
Depth to Water (WL, ft. below TOC): 4.21
Depth to free phase hydrocarbons (FP, ft. below TOC): N/A
Number of casing volumes to be purged: ☐ 4 ☐ 10 ☒ Other 1

PURGE METHOD
☐ Bailer \ Type
☒ Pump \ Type Bladder
☐ Other

PUMP INTAKE
☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 8
☐ Other

PURGE VOLUME CALCULATION

| Water Column Length | x | Multiplier | x | No. Vols | = | |
|---|---|---|---|---|---|---|
| 5.79 | x | 0.085 | x | 1 | = | gals 0.49 CALCULATED PURGE VOLUME |
| | | | | | | gals 0.49 ACTUAL PURGE VOLUME |

Total Purge Time: 10
(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate: ~
Purge Rate: 50mL/min
Meter Type: YSI

GROUNDWATER PARAMETER MEASUREMENTS

| Time / Gallons | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| TD 1440, DTW - 4.21 | | | | | |
| 1451 / 0.00 | 9.21 | 2.004 | 20.5 | >1000 | Dark Brown/none |
| 1456 / 0.245 | 8.41 | 2.095 | 20.8 | >1000 | Dark Brown/none |
| 1501 / 0.49 | 7.88 | 2.134 | 20.7 | 1752 | Dark Brown/none |
| / | | | | | |
| / | | | | | |
| / | | | | | |
| / | | | | | |

Comments during well purge

Purge water storage/disposal: ☒ Drummed onsite ☐ Other

## WELL SAMPLING

SAMPLING METHOD
Date/Time Sampled: 5/24/24, 1501
Bailer - Type ☐
Sample port ☐
Other ☒ Bladder
Meter Type: YSI

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

| Date / Time / % Recharge | pH | Cond. (mmhos/cm) | Temp ☒ deg C ☐ deg F | Turbidity (NTU) | Color / Odor Remarks |
|---|---|---|---|---|---|
| 5/24/24, 1505 / | 7.88 | 2.134 | 20.7 | 1752 | Dark Brown/none |

SAMPLING PROGRAM

| Sample No. | Container #/Volume | Analysis | Preservatives | Laboratory | Comments |
|---|---|---|---|---|---|
| P-12 | 9 | COC | Various | Pace | ø |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Duplicate Sample No. |
|---|---|
| P-12 | |
| | |

Blank Samples

| Type | Sample No. |
|---|---|
| Trip | |
| Rinsate | |
| Transfer | |
| Other: | |

ROUX

# APPENDIX J

Soil Vapor Sampling Logs

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABLE | Date: 5-31-24 |
| Sample ID: SVP-06-5 | Samplers: AV |
| Summa Canister ID: C10862 | Sample Manifold ID: A10361 |
| Helium Monitor Make/Model: Cal | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 0427 | -29 | **Vacuum must be held for at least 1 minute** |
| Shut-In End | 0429 | -29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 0430 | -29 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 0946 | -29 | 150 | 2266 |

Minimum Helium Detected in Shroud (% v): 23.6

Maximum Helium Detected in Purge Line (% v): 0

**Sample Collection**

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 0947 | -29 | 37.4 |
| | 0949 | -24 | 36.3 |
| | 0950 | -20 | 22.8 |
| | 0952 | -15 | 28.1 |
| | 0954 | -10 | 27.7 |
| Sample End | 0955 | -5 | 23.6 |

**Notes:**

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABJ I | Date: 5-31-24 |
| Sample ID: SVP-OG-8 | Samplers: AV |
| Summa Canister ID: C10862 | Sample Manifold ID: ~~A10647~~ A10746 |
| Helium Monitor Make/Model: Cox | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1004 | -30 | **Vacuum must be held for at least 1 minute** |
| Shut-In End | 1006 | -30 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | ~~1032~~ 1007 | -30 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1032 | -30 | 150 | 3436 |

Minimum Helium Detected in Shroud (% v): ~~22.8~~

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | 1034 | -30 | 24.3 | |
| | 1036 | -24 | 31.6 | |
| | 1037 | -20 | 26.2 | |
| | 1039 | -14 | 25.1 | |
| | 1040 | -10 | 27.5 | |
| Sample End | 1042 | -5 | 21.8 | |

**Notes:**

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ART | Date: 6/3/24 |
| Sample ID: SVP-10-5, SVP-DUP-01 | Samplers: DB |
| Summa Canister ID: C11476, C10801 | Sample Manifold ID: A10130 |
| Helium Monitor Make/Model: C-Squared | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 0928 | 30 | **Vacuum must be held for at least 6 minutes** |
| Shut-In End | 0934 | 30 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | GilAir Plus Pump |
| Purging Notes: | 150 ~~200~~ mL/min |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 0938 | 30 | 150 | 0 |
| 1 Purge Volume | 0946 | 30 | 150 | 1102.5 |
| 3 Purge Volumes | 0957 | 30 | 150 | 2205 |

| | |
|---|---|
| Minimum Helium Detected in Shroud (% v): | 20 |
| Maximum Helium Detected in Purge Line (% v): | 0.1 |

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | 0958 | 30 | 25.2 | |
| | 1006 | 20 | 32.7 | |
| | 1013 | 10 | 27.1 | |
| | | | | |
| | | | | |
| Sample End | 1021 | 5 | 25.4 | |

**Notes:** T-splitter A60024

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABSF | Date: 6-3-24 |
| Sample ID: SVP-10-8 | Samplers: AN, DB |
| Summa Canister ID: C10857 | Sample Manifold ID: 410118 |
| Helium Monitor Make/Model: Csq | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 0927 | -30 | **Vacuum must be held for at least 6 minutes** |
| Shut-In End | 0936 | -30 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air pump |
| Purging Notes: | high downhole pressure caused pump to fail and need restarts |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 0936 | -30 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1008 | -30 | 150 | 3329 |

Minimum Helium Detected in Shroud (% v): 21.8

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1008 | -30 | 33.0 |
| | 1010 | -25 | 38.2 |
| | 1012 | -20 | 25.9 |
| | 1016 | -15 | 22.8 |
| | 1150 | -10 | 26.4 |
| Sample End | 1063 | -8 | 21.4 |

Purge @ 1025 resumed @ 1148

**Notes:**

Due to manifold pressures equaled out at 1025 so the probe line was closed in accordance with DTSC advisory. Sampling is paused. Sampling was resumed at 1148 when sample probe line was opened

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABI | Date: 6/3/24 |
| Sample ID: SVP-13-S, SVP-DUP-02 | Samplers: Dylan B |
| Summa Canister ID: C10735, C11338 | Sample Manifold ID: A10175 |
| Helium Monitor Make/Model: C-Squared | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1041 | 29 | **Vacuum must be held for at least 6 minutes** |
| Shut-In End | 1047 | 29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | GilAir Plus pump |
| Purging Notes: | 150 mL/min |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1049 | 29 | 150 | 0 |
| 1 Purge Volume | 1056 | 29 | 150 | 1102.5 |
| 3 Purge Volumes | 1107 | 29 | 150 | 2205 |

| | |
|---|---|
| Minimum Helium Detected in Shroud (% v): | 20 |
| Maximum Helium Detected in Purge Line (% v): | 0.1 |

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1104 | 29 | 22.6 |
| | 1110 | 20 | 30.7 |
| | 1115 | 10 | 31.2 |
| | | | |
| | | | |
| Sample End | 1118 | 5 | 26.3 |

**Notes:** T-splitter A60051

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABRI | Date: 6-3-24 |
| Sample ID: SVP-13-8 | Samplers: AV DB |
| Summa Canister ID: C10929 | Sample Manifold ID: A10152 |
| Helium Monitor Make/Model: Cox | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1039 | -30 | **Vacuum must be held for at least 6 minutes** |
| Shut-In End | 1045 | -30 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | GilAir Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1046 | -30 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1127 | -30 | 150 | 3332 |

Minimum Helium Detected in Shroud (% v): 22.3

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1127 | -30 | 23.1 |
| | 1129 | -25 | 33.7 |
| | 1131 | -20 | 26.4 |
| | 1134 | -16 | 29.5 |
| | | | |
| Sample End | 1355 | -8 | 27.0 |

pause @ 1140
resumed @ 1313
paused @ 1315
resumed @ 1351

**Notes:**

Due to high downhole pressure sample was paused by clearing probe line to allow for equilibration in accordance with DTSC advisory.

Resumed @ 1313 paused at 1315 after -1 Hg changed

Resumed @ 1351

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABLI | Date: 6-3-24 |
| Sample ID: SVP-25-S | Samplers: AV |
| Summa Canister ID: C11511 | Sample Manifold ID: A10030 |
| Helium Monitor Make/Model: Cox | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1211 | -29 | **Vacuum must be held for at least 6 minutes** |
| Shut-In End | 1217 | -29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1218 | -29 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1255 | -9 | 150 | 2211 |

Minimum Helium Detected in Shroud (% v): 24.1

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1255 | -29 | 26.0 |
| | 1257 | -25 | 27.3 |
| | 1259 | -20 | 22.4 |
| | 1542 | -15 | 31.2 |
| | | | |
| Sample End | 1547 | -9 | 29.8 |

paused @ 1303 resumed @ 1540

**Notes:**

Due to high downhole pressure, probe line is closed and sampling is paused in accordance with OTSC's soil gas advisory

Paused @ 1303 and resumed at 1540.

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ADEL | Date: 8-31-24 |
| Sample ID: SVP-25-8 | Samplers: AV |
| Summa Canister ID: C11006 | Sample Manifold ID: A102CC |
| Helium Monitor Make/Model: Csv | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1604 | -30 | Vacuum must be held for at least ~~1~~ 6 minutes (AV) |
| Shut-In End | 1610 | -30 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1611 | -30 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1636 | -30 | 150 | 3330 |

| | |
|---|---|
| Minimum Helium Detected in Shroud (% v): | 22.3 |
| Maximum Helium Detected in Purge Line (% v): | 0 |

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1637 | -30 | 24.8 |
| | 1639 | -25 | 27.5 |
| | 1641 | -20 | 29.2 |
| | 1644 | -14 | 22.3 |
| | | | |
| Sample End | 1650 | -8 | 23.7 |

**Notes:**

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: [redacted] | Date: 5-31-24 |
| Sample ID: SVP-32-S | Samplers: AV |
| Summa Canister ID: C11079 | Sample Manifold ID: 410688 |
| Helium Monitor Make/Model: Cox | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1057 | -30 | **Vacuum must be held for at least 1 minute** |
| Shut-In End | 1059 | -30 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1059 | -30 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | | | | |

Minimum Helium Detected in Shroud (% v):

Maximum Helium Detected in Purge Line (% v):

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Sample End | | | | |

**Notes:**

During purge the downhole pressure was so great the pump immediately faulted. After testing the probe with a syringe AV determined this probe to be unsampleable

# Soil Vapor Sampling Log

| | | | |
|---|---|---|---|
| Site: | Duke Realty Foundry LP AB&I | Date: | 08/31/2021 |
| Sample ID: | SVP-32-8 | Samplers: | AV & JA |
| Summa Canister ID: | 01365. | Sample Manifold ID: | A10087. |
| Helium Monitor Make/Model: | 6-squared analyzer. | | |

**Leak Check/ Negative Pressure Shut-in Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1116. | -29.5 | Vacuum must be held for at least 6 minutes |
| Shut-In End | 1124. | -29.5. | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Purging 3.32L using Gil Air Plus pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (L) |
|---|---|---|---|---|
| Purge Start | 1123 | | | |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1147. | | | 3.532. |

| | |
|---|---|
| Minimum Helium Detected in Shroud (% v): | 20.0%. |
| Maximum Helium Detected in Purge Line (% v): | 0.0. |

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1149. | -29.5 | 29.3%. |
| | 1151 | -20.0 | 32.4%. |
| | 1154 | -10.0 | 24.8%. |
| | | | |
| | | | |
| Sample End | (1156) | (-5) | 27.1%. |

**Notes:**

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABPL | Date: 8-31-24 |
| Sample ID: SVP-36-5 | Samplers: AV |
| Summa Canister ID: C11326 | Sample Manifold ID: A10783 |
| Helium Monitor Make/Model: Csy | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1422 | -29 | Vacuum must be held for at least 6 minutes AV |
| Shut-In End | 1428 | -29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | High downhole pressure |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1429 | -29 | ~~AV~~ <150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1458 | -29 | <150 | 2208 |

Minimum Helium Detected in Shroud (% v): 23.2

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1459 | -29 | 28.3 |
| | 1501 | -24 | 26.2 |
| | 1509 | -14 | 22.7 |
| | 1515 | -10 | 22.8 |
| | | | |
| Sample End | 1548 | -7 | 29.3 |

Sample purged @ 1521

**Notes:**

Downhole pressure equaled canister vacuum pressure of -10 so the sample probe was closed to allow for equilibration in accordance with DTSC soil gas advisory

restarted at 1346

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABSI | Date: 6-3-24 |
| Sample ID: SVP-36-8 | Samplers: AV |
| Summa Canister ID: C10585 | Sample Manifold ID: A10381 |
| Helium Monitor Make/Model: Csq | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1411 | -29 | Vacuum must be held for at least 6 minutes |
| Shut-In End | 1417 | -29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1418 | -29 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | ~~Qw~~ 1524 | -29 | 150 | 3330 |

Minimum Helium Detected in Shroud (% v): 24.2

Maximum Helium Detected in Purge Line (% v): 0.2%

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1525 | -29 | 29.5 |
| | 1526 | -25 | 27.3 |
| | 1530 | -20 | 30.5 |
| | 1533 | -18 | 28.7 |
| | 1615 | -14 | 31.8 |
| Sample End | 1632 | -10 | 32.1 |

(paused @ 1533 resumed @ 1604 paused @ 1610 resumed 1615

**Notes:**

Helium detected in line at the start of purging. purging was paused and ~~the~~ AV began to troubleshoot the system. After placing some clay in the well box the helium in line was greatly decreased.

Sample was paused by closing probe valve in accordance with DTSC advisory. This is due to high downhole pressure.

Paused at 1533 resumed at 1604 for -2 Hg then paused again at 1610. Resumed at 1615

# Soil Vapor Sampling Log

| | | | |
|---|---|---|---|
| Site: | Duke Realty Foundry LP AB&I | Date: | 08/31/2024 (NOT SAMPLED) |
| Sample ID: | SVP-36-8 | Samplers: | AV + JT |
| Summa Canister ID: | 01360 | Sample Manifold ID: | A10424 |
| Helium Monitor Make/Model: | i-squared analyzer | | |

**Leak Check/ Negative Pressure Shut-in Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1552 | -29. | Vacuum must be held for at least 6 minutes |
| Shut-In End | 1600 | -29. | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Purging 3.328 L using GilAir Plus pump. |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1600 | | | |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | | | | |
| Minimum Helium Detected in Shroud (% v): | | | | |
| Maximum Helium Detected in Purge Line (% v): | | | | |

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Sample End | | | |

**Notes:**

1. 085
.109

Helium at 0.5%. during purge. tried to troubleshoot by cracking + tightening 3 way valve connections, still seeing ~0.4%. helium during purge.

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABLI | Date: 5-30-24 |
| Sample ID: SVP-41-S | Samplers: AV |
| Summa Canister ID: C10780 | Sample Manifold ID: A10341 |
| Helium Monitor Make/Model: Csa | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1119 | -29 | **Vacuum must be held for at least 1 minute** |
| Shut-In End | 1121 | -29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Glair Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1122 | -29 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1153 | -29 | 150 | 4372 |

Minimum Helium Detected in Shroud (% v): 26.2

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1154 | -29 | 23.9 |
| | 1155 | -25 | 22.8 |
| | 1156 | -20 | 28.7 |
| | 1158 | -15 | 26.3 |
| | 1200 | -10 | 25.1 |
| Sample End | 1202 | -5 | 21.2 |

**Notes:**

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABLI | Date: 5-30-24 |
| Sample ID: SVP-41-8 | Samplers: AV |
| Summa Canister ID: C10916 | Sample Manifold ID: 410618 |
| Helium Monitor Make/Model: CSA | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1009 | -30 | **Vacuum must be held for at least 1 minute** |
| Shut-In End | 1011 | -30 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Oil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1012 | -30 | ~150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1042 | -30 | >150 | 3347 |

Minimum Helium Detected in Shroud (% v): 22.8

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | 1043 | -30 | 24.3 | |
| | 1045 | -25 | 38.4 | |
| | 1047 | -20 | 25.7 | |
| | 1051 | -15 | 21.6 | |
| | 1527 | -10 | 24.3 | |
| Sample End | 1531 | -5 | 20.8 | |

paused @ 1110
restarted @ 1525

**Notes:**

High downhole pressure was observed during purge, the pump had to be restarted throughout the purge.

At around 1053 downhole pressure reached -12 and the vacuum reached -14. These pressures stayed at these levels. Sampling was paused at 1110 ~~to allow for AV~~ in accordance with DTSC soil gas advisory. Sample was reopened at 1210 but no pressure change was noted with downhole pressure. Sample was paused once more 1 minute later.

Sample restarted at 1525.

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABRI | Date: 6-30-24 |
| Sample ID: SVP-45-5 | Samplers: AV |
| Summa Canister ID: C10823 | Sample Manifold ID: 410496 |
| Helium Monitor Make/Model: Csq | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1232 | -28 | **Vacuum must be held for at least 1 minute** |
| Shut-In End | 1234 | -28 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1235 | -28 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1250 | -28 | 150 | 2219 |

Minimum Helium Detected in Shroud (% v): 23.6

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | 1251 | -28 | 28.9 | |
| | 1252 | -25 | 31.2 | |
| | 1253 | -20 | 27.3 | |
| | 1255 | -15 | 37.8 | |
| | 1256 | -10 | 22.6 | |
| Sample End | 1258 | -4 | 23.8 | |

**Notes:**

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ~~1815~~ | Date: 5-31-24 |
| Sample ID: SVP-52-5 | Samplers: AV |
| Summa Canister ID: C11115 | Sample Manifold ID: AV0824 |
| Helium Monitor Make/Model: Csq | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1309 | -29 | Vacuum must be held for at least ~~1~~ 6 minutes AV |
| Shut-In End | 1315 | -29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Oil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | | | | |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | | | | |

Minimum Helium Detected in Shroud (% v):

Maximum Helium Detected in Purge Line (% v):

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Sample End | | | |

**Notes:** Water found in probe line during purge. No sample was taken

# Soil Vapor Sampling Log

| | | | |
|---|---|---|---|
| Site: | Duke Realty Foundry LP AB&I | Date: | 05/31/24. |
| Sample ID: | ~~SVP-30-8~~ SVP-52-8 | Samplers: | JA + AV |
| Summa Canister ID: | C10580 | Sample Manifold ID: | A10385 |
| Helium Monitor Make/Model: | C-squared analyzer. | | |

**Leak Check/ Negative Pressure Shut-in Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1311 | -29 | Vacuum must be held for at least 6 minutes |
| Shut-In End | 1318 | -29. | |

pull with syringe to see if water comes up (since 5' well did have some). did not see any evidence of purge.

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | purge 3.328 L using oil Air flus. pump. |
| Purging Notes: | pressure issues, pump keeps stopping, ~~had~~ restarting. At 1355 change pump due to low battery. 1.515L purged so far; 1.813 L left. |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (L) |
|---|---|---|---|---|
| Purge Start | 1326. | | | |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1424. | >3.328 L. → | → | → |
| Minimum Helium Detected in Shroud (% v): | | | | |
| Maximum Helium Detected in Purge Line (% v): | | | | |

**Sample Collection**

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | 1422 | -29 | 13.7% → | |
| | 1426 | -20 | 37.1 → | - → at 1427, downhole at -10 |
| | | see notes. | | |
| | 1520 | -11 | 25.8%. | |
| | | | 31.7%. | |
| Sample End | (1536) | (-10) | ↓ | |

**Notes:**

1.~~586~~ 515-

1.424

.8385

4

at 1435 stop sample, give it time for pressure issues.
Restart/continue at 1518.

5

- call JO & JG (John Goyette from Entropy lab). ask JG if okay to collect a sample at -10 in Hg, John says ok!

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABLF | Date: 5-30-24 |
| Sample ID: SVP-S3-5 | Samplers: AV |
| Summa Canister ID: C10823 | Sample Manifold ID: A10128 |
| Helium Monitor Make/Model: CSA | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1345 | -30 | **Vacuum must be held for at least 1 minute** |
| Shut-In End | 1347 | -30 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | GilAir Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1348 | -30 | 150 | 0 |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | 1410 | -30 | 150 | 3240 |

Minimum Helium Detected in Shroud (% v): 24.8

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) |
|---|---|---|---|
| Sample Start | 1411 | -30 | 31.1 |
| | 1412 | -25 | 22.3 |
| | 1414 | -20 | 25.6 |
| | 1415 | -15 | 26.2 |
| | 1416 | -10 | 24.1 |
| Sample End | 1418 | -5 | 23.7 |

**Notes:**

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ABR2 | Date: 5-30-24 |
| Sample ID: SVP-63-8 | Samplers: AV |
| Summa Canister ID: C11019 | Sample Manifold ID: A10303 |
| Helium Monitor Make/Model: Cox | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1436 | -28 | Vacuum must be held for at least 1 minute |
| Shut-In End | 1438 | -28 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Gil Air Pump |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1438 | -28 | ~150 | 0 |
| 1 Purge Volume | | ~~-28~~ | | |
| 3 Purge Volumes | 1510 | -28 | ~180 | 3383 |

Minimum Helium Detected in Shroud (% v): 22.8

Maximum Helium Detected in Purge Line (% v): 0

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | 1811 | -28 | 23.5 | |
| | 1512 | -25 | 28.5 | |
| | 1514 | -20 | 22.5 | |
| | 1516 | -15 | 21.8 | |
| | 1546 | -10 | 22.4 | |
| Sample End | 1552 | -5 | 21.2 | |

paused @ 1519 restart @ 1543

**Notes:**

High downhole pressure discovered during purge. Gil Air pump was restarted throughout purge as a result.

at 1519 downhole pressure equaled vacuum pressure so the probe line was closed to allow for equilibration in accordance with DTSC soil gas advisory

opened probe up at 1543 and began sampling again

# Soil Vapor Sampling Log

| | | | |
|---|---|---|---|
| Site: | Duke Realty Foundry LP AB&I | Date: | 05/31/24 (NOT COLLECTED) |
| Sample ID: | SVP-S7-S | Samplers: | AV & JA |
| Summa Canister ID: | 40084 | Sample Manifold ID: | ~~40054~~ A10100. |
| Helium Monitor Make/Model: | ~~Squirrel analyzer.~~ | | (FA) i |

**Leak Check/ Negative Pressure Shut-in Test**

| | 1st Time | 2nd | Vacuum (in Hg) | |
|---|---|---|---|---|
| Shut-In Start | 1241 / | 1224 | -29 / -29 | Vacuum must be held for at least 6 minutes |
| Shut-In End | 1247 / | 1238 | -29 / -29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | Purged 3.279 L with Gil Air Plus pump. |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | | | | |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | | | | |
| Minimum Helium Detected in Shroud (% v): | | | | |
| Maximum Helium Detected in Purge Line (% v): | | | | |

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Sample End | | | | |

**Notes:**

- start purge after initial shut-in tst, helium leak spotted. troubleshoot, try to tighten connections, still seeing leak.
- Replace 3-way valve, retest leak check. still seeing helium leak.
- There is a crack / hole in well that could possibly be the issue. No day on site, will return on monday next week & continue with this location.

to seal cracks,

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ADI | Date: 6/3/24 |
| Sample ID: SVP-57-5 | Samplers: Dylan D |
| Summa Canister ID: C11442 | Sample Manifold ID: A10144 |
| Helium Monitor Make/Model: C-squared | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1351 | 29 | Vacuum must be held for at least 6 minutes |
| Shut-In End | 1357 | 29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | GilAir Plus pump |
| Purging Notes: | 150 mL/min |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1358 | 29 | 150 | 0 |
| 1 Purge Volume | 1413 | 29 | 150 | 1102.5 |
| 3 Purge Volumes | 1425 | | 150 | 2205 |

Minimum Helium Detected in Shroud (% v): 20

Maximum Helium Detected in Purge Line (% v): 0.3

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | 1426 | 29 | 29.2 | |
| | 1428 | 20 | 33.7 | |
| | 1430 | 10 | 24.1 | |
| | | | | |
| | | | | |
| Sample End | 1432 | 5 | | |

**Notes:** Helium detected in ~~purge line~~ at 5% DT. ~~At~~ Placing layer of DB clay in well box.

Helium detected in purge line at 5% during purge. Paused purge. Placed layer of clay in well box to block cracks and as an extra seal. Helium detected in purge line ~~down to DT~~ at 0.3%. Continue purge and collect sample.

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ADT | Date: 6/3/24 |
| Sample ID: SVP-61-4 | Samplers: Dylan B |
| Summa Canister ID: — | Sample Manifold ID: — |
| Helium Monitor Make/Model: C-squared | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | | | **Vacuum must be held for at least 6 minutes** |
| Shut-In End | | | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | |
| Purging Notes: | |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | | | | |
| 1 Purge Volume | | | | |
| 3 Purge Volumes | | | | |

| | |
|---|---|
| Minimum Helium Detected in Shroud (% v): | DB |
| Maximum Helium Detected in Purge Line (% v): | |

Sample Collection

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Sample End | | | | |

**Notes:** Water in Sample line. No sample collected

# Soil Vapor Sampling Log

| | |
|---|---|
| Site: ADT | Date: 6/3/24 |
| Sample ID: SVP-62-4, SVP-DUP-03 | Samplers: Dylan D |
| Summa Canister ID: C10968, C10948 | Sample Manifold ID: A10107 |
| Helium Monitor Make/Model: C-Squared | |

**Shut-In Test**

| | Time | Vacuum (in Hg) | |
|---|---|---|---|
| Shut-In Start | 1141 | 29 | Vacuum must be held for at least 6 minutes |
| Shut-In End | 1147 | 29 | |

**Pre-Sample Purge and Helium Leak Test**

| | |
|---|---|
| Purging Method: | GilAir Plus pump |
| Purging Notes: | 150 mL/min |

| | Time | Vacuum (in Hg) | Flow Rate (mL/min) | Volume Purged (mL) |
|---|---|---|---|---|
| Purge Start | 1148 | 29 | 150 | 0 |
| 1 Purge Volume | 1206 | 29 | 150 | 1094 |
| 3 Purge Volumes | 1223 | 29 | 150 | 2188 |

Minimum Helium Detected in Shroud (% v): 20

Maximum Helium Detected in Purge Line (% v): 0.0

**Sample Collection**

| | Time | Vacuum (in Hg) | Helium in Shroud (%v) | |
|---|---|---|---|---|
| Sample Start | 1224 | 29 | 24.2 | Pause @ 1236 |
| | 1235 | 20 | 21.8 | Restart @ 1246 |
| | 1254 | 15 | 42.7 | Pause @ 1255 |
| | 1311 | 10 | 25.4 | Restart @ 1305 |
| | | | | |
| Sample End | 1315 | 8 | 26.1 | |

**Notes:**

T-splitter A60061.

Paused sampling at 1236, downhole ~~pressure~~ DB pressure at 20 Hg.

Restarted sampling at 1246, downhole pressure at 0 Hg.

Paused sampling at 1255, downhole pressure at 15 hg.

Restarted sampling at 1305, downhole pressure at 0 Hg.

# APPENDIX K

Passive Soil Gas Standard Operating Procedure

# BESURE SAMPLE COLLECTION KIT™

## Instructions for PSG Sampler Deployment, Retrieval and Return to Beacon Environmental

Following are instructions for the BeSure Sample Collection Kit™ for the deployment and retrieval of Beacon Passive Soil Gas Samplers. Before going into the field, confirm you have everything you need by checking the enclosed PSG Kit Inventory sheet. If at any time you have questions or need additional assistance, please call us at **1-410-838-8780**.

**IMPORTANT: TRIP BLANKS ARE TO REMAIN CLOSED AT ALL TIMES**
**NO SMOKING WHILE HANDLING SAMPLES**

**DO NOT INSTALL A SECOND SAMPLER TO COLLECT A DUPLICATE!**

Duplicate analysis can be performed for any field sample because each sampler contains two sets of adsorbent cartridges. To select field sample duplicates, note them on the CoC; a second (co-located) sample is not necessary. Add a second entry to the CoC with the field sample ID followed by "D" or "Dup" (i.e., PSG-08-Dup is the duplicate for PSG-08). There is an additional per sample charge for analysis of any duplicates.

**NOTE: Do not deploy Samplers within 10 feet of a monitoring well, penetrometer, hydropunch shaft, or other intrusive sampling apparatus that could potentially create a preferential pathway for gases.**

BESURE
SAMPLE COLLECTION KIT™

# PSG KIT INVENTORY

| Inventory Items |
|---|
| BEACON SAMPLERS |
| TRIP BLANKS (Blue Label) |
| TRANSPORT VIALS (Green Label) |
| SAMPLING CAPS IN CONTAINER |
| CAP STORAGE CONTAINERS |
| 12-INCH LENGTHS OF PIPE |
| GAUZE CLOTHS |
| 3 X 4 INCH PLASTIC SAMPLER BAGS |
| 12 X 12 INCH PLASTIC RETURN SHIPMENT BAGS |
| TAPPING DOWEL |

Something missing?
Call 1-410-838-8780 or email
help@beacon-usa.com

**You will also need the following items:**

- PIN FLAGS, WOODEN STAKES OR OTHER LOCATION MARKERS
- FLAGGING TAPE
- NITRILE GLOVES
- CLIPBOARD AND BALLPOINT PEN
- BOX OF ALUMINUM FOIL
- HAMMER
- ELECTRIC ROTARY HAMMER DRILL
- 1.25 – 1.5 INCH DRILL BIT WITH AT LEAST 12 INCH OF CUTTING LENGTH
- 0.5 – 0.75 INCH DRILL BIT WITH AT LEAST 30 INCHES OF CUTTING LENGTH
- PIPE WRENCH (to dislodge drill bits if stuck)
- SMALL SCREWDRIVER
- CLEAN TOWEL
- WIRE CUTTERS
- PIPE CUTTERS or HACK SAW
- NEEDLE-NOSE LOCKING PLIERS or equivalent (to pull pipe out of the ground)

**IMPORTANT: Return all extra Samplers, tools, wood blocks, and unused pipe to avoid replacement fees.**

**If sampling through asphalt or concrete:**

**Do not use pre-mixed patching compounds for the temporary patching of sample holes; these products contain solvents and will bias the results.**

**You will need:**

- DRY CONCRETE MORTAR MIX, SMALL PAIL, WATER AND A SMALL PLASTIC PUTTY KNIFE (for temporary patching of the sample holes).
- HAMMER AND CHISEL (to remove the temporary patch)
- ASPHALT COLD PATCH OR CEMENT (for final repair following retrieval of samplers)

| For Lab Use Only – Shipment Verification | ID |
|---|---|
| Prepared by / Date | Checked by / Date |

# Sampler Deployment

Need help? Call 1-410-838-8780
or email help@beacon-usa.com

**PSG KIT INSTRUCTIONS**

SOIL / VEGETATION



**1** Use a hammer drill and drill bits to create the soil vapor pathway. Drill a 1 1/4 inch to 1 1/2 inch diameter hole to a depth of 12-14 inches. Using a 1/2-inch drill bit, drill a hole to a depth of 30-36 inches.

**See diagram on pg. 4**



**2** Place the sampling kit and these materials within easy access:

- 12-inch length of pipe
- Pipe cutter / Hack saw
- Tapping dowel
- Hammer
- Sampling cap
- Aluminum foil
- Beacon Sampler



**3** Lower the pipe into the hole and push or tap the pipe 1/2 inch below grade using the tapping dowel and a hammer. If necessary, first cut the pipe so that it is flush or just below grade before tapping the pipe into the hole.





**4** Remove a Beacon Sampler and unwind the retrieval wire wrapped around it, leaving a small coil of wire at the end. Extend the wire so that the Sampler will easily go into the pipe.

ASPHALT / CONCRETE










# Sampler Deployment

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or email help@beacon-usa.com

**PSG KIT INSTRUCTIONS**

SOIL / VEGETATION



**5** Replace the solid white shipping cap with a Sampling Cap (black cap with screened hole). Place the solid cap in the Cap Storage container.

**IMPORTANT: Make sure the black sampling cap is on the vial before installing the sampler.**



**6** Lower the Sampler, open-end down, into the metal pipe approximately four inches so that the retrieval wire sticks out of the hole.



**7** Make sure the end of the retrieval wire remains above the surface.

**IF ASPHALT / CONCRETE**
Hook the end of the wire (with small coil) and hang it over the top and outside of the pipe.

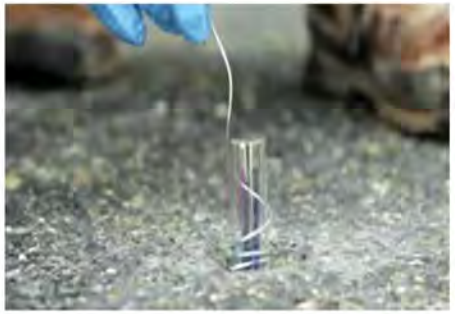



**8** Cover and plug the open end of the pipe with a balled-up wad of aluminum foil, pressing it tightly on top of the pipe with the tapping dowel so it forms a flattened seal on the pipe approximately 1/4 inch below grade.



ASPHALT / CONCRETE









# Sampler Deployment



SOIL / VEGETATION






**9** Cover the hole to grade with local soils or sand, leaving the end of the wire exposed above the surface of the ground. Use a hammer to collapse/pack the soil above the sampler. Coil the wire and lay it flat on the ground surface.

**IF ASPHALT / CONCRETE**
Cover the hole to grade with a 1/4 inch thick concrete patch. (If it is thicker it will be difficult to remove during retrieval.)

**IMPORTANT: Only use Dry Concrete Mortar Mix. Do Not use Premixed Patching Compounds. They contain solvents.**

**10** Close the Field Kit and record the following info on the Chain-of-Custody: location ID, date/time of deployment (to the nearest minute) and other relevant information.

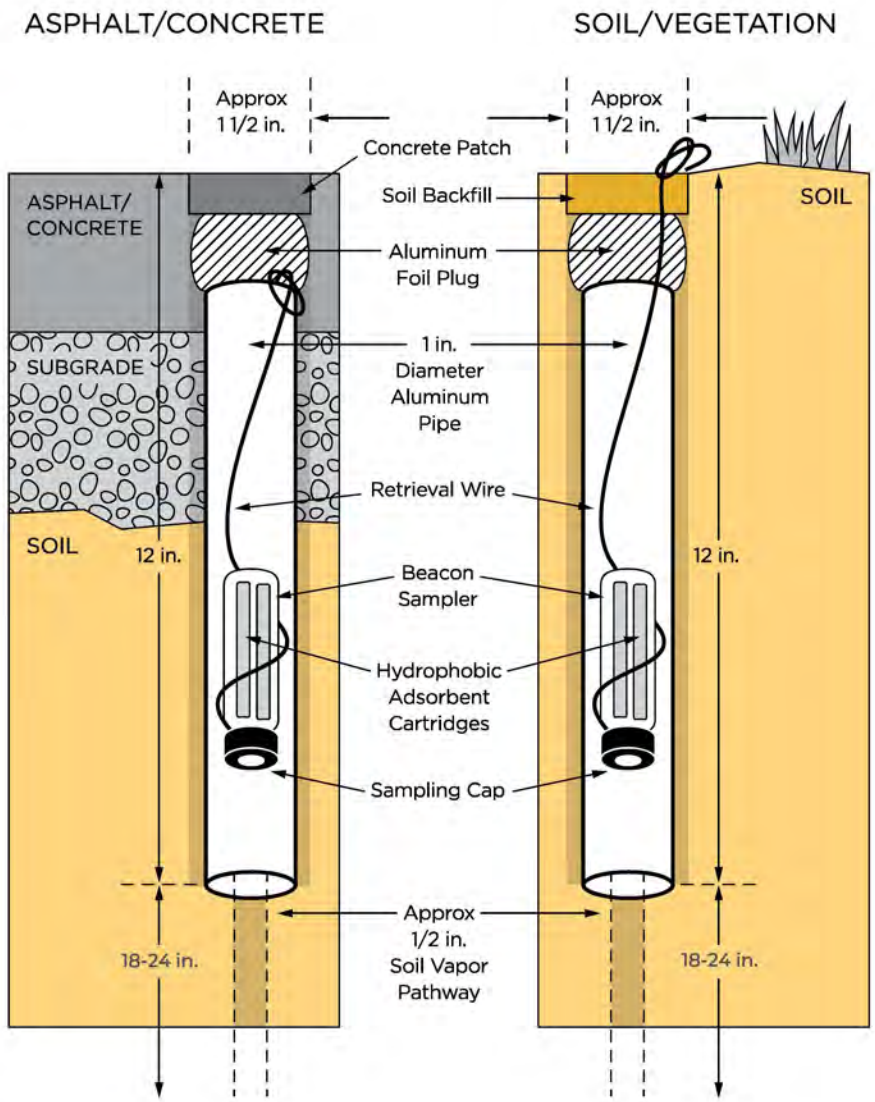
**Repeat steps 1-10 until all samplers have been installed.**

**After deploying all samplers, place each Trip Blank in an Individual Sampler Bag. Store the Trip Blank(s) in the Return Shipment Bag(s) until retrieval. Make sure there is 1 Trip Blank in each Return Shipment Bag.**

ASPHALT / CONCRETE







# Sampler Retrieval

Need help? Call 1-410-838-8780
or email help@beacon-usa.com

**PSG KIT INSTRUCTIONS**

SOIL / VEGETATION



**1** Place the sampling kit and these materials within easy access:

- Small screwdriver
- Wire cutters
- White solid Shipping Cap
- Towel
- Gauze cloth
- Individual Sampler Bag
- Return Shipment Bag

**IF ASPHALT / CONCRETE**

- Hammer & chisel



**2** Clear the soil and gently remove the aluminum foil plug using a small screwdriver, if necessary. Retrieve the Sampler from the hole by gently pulling the wire.

**IF ASPHALT / CONCRETE**
Remove the concrete plug with the hammer and chisel. Carefully remove the aluminum foil plug using the screwdriver. Retrieve the Sampler from the hole by gently pulling the wire.



**3** Clean the sides of the Sampler with the towel and remove the black Sampling Cap. Do not return the used Sampling Caps.

**Transport vials (green labels) are only used if a Sampler is broken during retrieval. If this occurs, transfer all contents from the broken Sampler to the transport vial.**



**4** Cut ALL wire from the Sampler using wire cutters, and clean the vial threads completely with the gauze cloth.

ASPHALT / CONCRETE









# Sampler Retrieval



SOIL / VEGETATION




**5** Firmly screw the solid cap onto the vial. Use a ballpoint pen to write the sample ID on the cap's label.

**IMPORTANT: Do not use a Sharpie to mark the caps. It can contaminate the samples.**



**6** Place the sealed and labeled Beacon Sampler into the individual Sampler Bag. Write the sample ID on the white block on the bag using a ballpoint pen. Place the individually bagged and labeled sampler into the larger bag labeled "Return Shipment Bag."



**7** Close the Field Kit and on the Chain-of-Custody, record the ID, date/time of retrieval (to the nearest minute) and other relevant information.

**Move to next location. Repeat steps 1-7, until all Samplers are retrieved. Patch or back-fill holes as necessary.**



**8** To prepare for return shipment, verify that all Samplers are stored in the Return Shipment Bag, containing an adsorbent pak and a Trip Blank.

ASPHALT / CONCRETE









# Sampler Retrieval



SOIL / VEGETATION



**9** Seal the Return Shipment Bag and place it in the upper tray of the Field Kit and place the provided tools and materials below the tray, in the lower compartment (blocks, extra samplers, tools, etc.)

**IMPORTANT: Do not return used sampling caps, used pipe, or wire with the field kit. They may bias the samplers.**




**10** Close the Field Kit, and secure it with the provided Custody Seal. Sign and date the Chain-of-Custody. Take a picture, scan or make a photocopy for your records.




**11** Package the Field Kit into the original shipment box. Place the Chain of Custody on top of the kit. Seal the box, affix a FedEx Airbill and send to the address noted below:

**Beacon Environmental**
**Attn: Sample Receiving**
**526 Underwood Lane**
**Bel Air, Maryland 21014, USA**
**1-410-838-8780**

**IMPORTANT: Do not use styrene peanuts, newspaper or other packing materials. They may contaminate the samples.**

For questions or assistance
Call 1-410-838-8780 or
email help@beacon-usa.com

ASPHALT / CONCRETE





## FAQs

**Does Beacon receive samples on Weekends?** No. If possible, store the samples in a clean environment until Monday and then ship.

**How large of a diameter hole should I make?** The preferred diameter is 3-4 cm. If you must make a hole larger than 4 cm, please contact Beacon.

**Can I install samplers in the rain?** Beacon's sorbent is hydrophobic. The only issues with precipitation are:

1. If the vadose zone is saturated and vapors are not able to migrate.
2. If there is so much rain during install that the holes are being filled with water.

   In these situations, please contact Beacon to discuss.

**Can I install samplers in gravel?** Yes, make sure that you clear away enough surface gravel until you reach soil that will stay open as you create your hole. If this is not possible, please contact Beacon to discuss options.

## Tips

- Remember to remove all the wire during retrieval. There should be no wire on the Beacon Sampler.
- Return all extra Samplers, tools, wood blocks, and unused pipe to avoid replacement fees.
- Note any duplicates on the CoC.

BEACON ENVIRONMENTAL
526 Underwood Lane
Bel Air, Maryland 21014 USA
Need help? Call 1-410-838-8780
or email help@beacon-usa.com

# PASSIVE SOIL GAS SAMPLES CHAIN-OF-CUSTODY

| Project Information | Client Information | |
|---|---|---|
| Site Name: | Company Name: | Project Manager: |
| | Office Location: | Client PO: |
| Site Location: | Submitted by: | Turn around time (check one): |
| | Email: | ☐ Normal ☐ Rush (specify) _____ days |

| Field Sample ID | Start Date | Start Time | Stop Date | Stop Time | Sampling Hole Depth ☐ cm ☐ inches | Surface Type (Soil, Asphalt, Concrete, Gravel) | Optional Information (Location Description, Sample Condition, PID / FID Readings, etc) |
|---|---|---|---|---|---|---|---|
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Special Instructions:

| | | | |
|---|---|---|---|
| Relinquished by (signature): | Date / Time: | Received by (signature): | Date / Time: |
| Relinquished by (signature): | Date / Time: | Received by (signature): | Date / Time: |
| For Lab Use Only | Beacon Job No: | Beacon Proposal: | Analytical Method: |
| Courier Name: | Shipment Condition: | Custody Seal Intact: ☐ Yes ☐ No ☐ n/a | Custody Seal No: |



# DISCOVER THE BENEFITS OF LONG DURATION TIME-INTEGRATED AIR SAMPLING

To learn more, call **1-410-838-8780**, email **info@beacon-usa.com** or visit **beacon-usa.com**

## Make the Switch to Beacon!

If you've been using Canisters for your Indoor and Ambient Air Sampling projects, **it's time to make the switch to Beacon Samplers**! Beacon Environmental's Passive Air Samplers are quickly becoming the industry standard for effective and reliable sample collection. Not only are they much smaller than canisters and easier to use, they can be used to sample over a brief period (hours) or extended periods (days or weeks) to provide more accurate time-weighted average concentration data.



Vapor Intrusion Monitoring



Fenceline Air Quality Monitoring

BEACON ENVIRONMENTAL

Global Leader in Soil Gas and Air Analyses

Beacon Environmental is ISO/IEC 17025, DoD ELAP and NELAP accredited for the analysis of sorbent samples following US EPA Methods TO-17, TO-15, 8260C and 325B.

Beacon Environmental
DoD ELAP/ISO 17025 Accredited Laboratory, TNI NEFAP Accredited Field Sampling Organization, Accreditation No. 72690

# APPENDIX L

Waste Manifests

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|---|
| | NOT APPLICABLE | 1 | (415) 533-0112 | 3234 |

**GENERATOR**

5. Generator's Name and Mailing Address
Duke Realty Foundry LP
Pier 1, Bay 1
San Francisco, CA 94111
Generator's Phone: (415) 733-9410 Gavin Polite Fisco

Generator's Site Address (if different than mailing address)
7825 San Leandro St
7825 San Leandro St
Oakland, CA 94621

6. Transporter 1 Company Name: Costera Waste & Environmental, Inc.
U.S. EPA ID Number: CAR000332239

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Instrat, Inc.
1105 Airport Rd., Suite C
Rio Vista, CA 94571
Facility's Phone: (707) 374-3834
U.S. EPA ID Number: NOTAPPLICABLE

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non-Hazardous, Non DOT Regulated, Waste, Liquid (Water) | 02 | DM | 110 | G | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information
9.1 - Water - Profile # 12921 02455
Costera Job # 3234

Invoice Costera Waste & Environmental, Inc

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Adam Burton of Costera on Behalf of the Generator
Signature: A. Burton
Month: 7 Day: 30 Year: 2024

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Miguel Hernandez
Signature:
Month: 08 Day: 07 Year: 24
Transporter 2 Printed/Typed Name
Signature
Month Day Year

**DESIGNATED FACILITY**

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| NOT APPLICABLE | 1 | (415) 533-0112 | 3234 |

**GENERATOR**

5. Generator's Name and Mailing Address
Duke Realty Foundry LP
Pier 1, Bay 1
San Francisco, CA 94111
Generator's Phone: (415) 733-9410 Gavin Polite Fisco

Generator's Site Address (if different than mailing address)
7825 San Leandro St
7825 San Leandro St
Oakland, CA 94621

6. Transporter 1 Company Name: Costera Waste & Environmental, Inc. — U.S. EPA ID Number: CAR000332239

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Ln
Suisun, CA 94585
Facility's Phone: (707) 432-4627

U.S. EPA ID Number: CAR000089466

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non-Hazardous, Non DOT Regulated, Waste, Solid (Soil) | 02 | DM | 800 | P | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information
9.1 - Soil - Profile # PH-24-644 02X55 Costera Job # 3234

Invoice Costera Waste & Environmental, Inc

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Adam Burton of Costera on Behalf of the Generator — Signature: A. Burton — Month: 7 Day: 30 Year: 2024

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Miguel Hernandez — Signature: [signature] — Month: 08 Day: 07 Year: 24

Transporter 2 Printed/Typed Name — Signature — Month Day Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year